

Redpoint Interaction v6.6

External Provider Configuration

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1 About This Document

This document provides details on the steps to be undertaken to configure external providers to work with Redpoint Interaction (RPI).

Full details of the parallel steps to be undertaken within the RPI client application's Configuration Workbench can be found in the RPI User Guide.

2 Push Notifications

2.1 Windows Azure/Azure Push Direct Notification Hub

2.1.1 Notification Hub Configuration

This section describes how to create and configure a Notification Hub on the Windows Azure portal. Please follow the steps below:

- 1. On your web browser, log onto the Windows Azure portal (https://manage.windowsazure.com).
- 2. Once you have successfully logged into the portal, go to the Service Bus tab, and click Create as shown below:

۲	MEDIA SERVICES 0		
	SERVICE BUS)	
X	VISUAL STUDIO ONLINE		
7	CACHE 1		
	BIZTALK SERVICES 0		
Ő	RECOVERY SERVICES		
<···>			
2	TRAFFIC MANAGER		
	MANAGEMENT SERVI		
÷	NEW	CONNECTION	DELET

2.2 Push Notification for Windows Phone

This section describes how to deploy the RPI Windows Phone Push Notification Demo App onto a device.

PC Pre-requisites

- 1. Windows Phone Software Development Kits (SDK) 8.0
- 2. Microsoft Visual Studio 2013
- 3. Latest Microsoft Visual Studio 20103 updates

PC Pre- requisite Installation

- Install the Windows Phone Software Development Kit (SDK) 8.0. The installer can be downloaded at <u>https://www.microsoft.com/en-ph/download/details.aspx?id=35471</u>. Follow the installation instructions provided.
- 2. Install Microsoft Visual Studio 2013 and its latest updates.

2.2.1 RPI Windows Phone Push Notification Demo App Deployment

The following steps show how deploy the RPI Windows Phone Push Notification Demo App onto a Windows Phone device.

1. Make sure the phone is connected to the PC via a USB cable.

2. Run the Windows Phone SDK Application Deployment application (*Windows > All Programs > Windows Phone SDK 8.0*).



3. Ensure Target is set to Windows Phone Device.

Application	Deployment	×
Application	on Deployment	Windows Phone
This tool allo Phone. Please select click "Deploy"	ws you to install a prepackaged XAP the device target for installation and th	on a registered Windows e XAP to be installed, and
Target:	Device	~
XAP:		Browse
Status:		
		Deploy

4. Run Microsoft Visual Studio and build the RPI Windows Phone Push Notification Demo App solution from C:\Source\ResonanceWobileClient_Master\WP8PushNotificationDemo\WP8PushNotificationDemo.sln. Once successfully built, deploy the project: from the Output window, find the generated .xap file in C:\Source\ResonanceWobileClient_Master\WP8PushNotificationDemo\WP8PushNotificationDemo\Bin\Release

Outpu	ut 🔻 구 가	<
Show	v output from: Build 🗾 🖌 🖆 🎽 🛓 🞽 🐉	
1>	WP8PusNotificationDemo -> C:\Source\Resonance\MobileClient_Master\WP8PusNNotificationDemo\WP8PusNNotificationDemo	*
1>	Begin application manifest generation	
1>	Application manifest generation completed successfully	
1>	Begin Xap packaging	
1>	Creating file WP8PushNotificationDemo_Release_AnyCPU.xap	
1>	Adding WP8PushNotificationDemo.dll	
1>	Adding Assets\AlignmentGrid.png	
1>	Adding Assets\Tiles\FlipCycleTileLarge.png	
1>	Adding Assets\Tiles\FlipCycleTileSmall.png	
1>	Adding Assets\Tiles\IconicTileMediumLarge.png	
1>	Adding Assets\Tiles\IconicTileSmall.png	
1>	Adding AppManifest.xaml	Ŧ
	→	

5. Browse for the generate .xap file in the Application Deployment window.

Application	Deployment	×			
Applicati	ion Deployment 🛛 📲 Window	ws Phone			
This tool allo Phone. Please select click "Deploy"	This tool allows you to install a prepackaged XAP on a registered Windows Phone. Please select the device target for installation and the XAP to be installed, and click "Deploy"				
Target:	Device				
XAP:	C:\Source\Resonance\MobileClient_Master\WP8PushN	Browse			
Status:					
		Daplay			
		Deploy			

6. Click Deploy. Following successful deployment, the RPI Windows Phone Push Notification Demo App will be installed on the phone.

2.2.2 RPI Windows Phone Push Notification Demo App Configuration

This section describes configuration of the RPI Windows Phone Push Notification Demo App on a Windows phone device, allowing it to receive Push notifications from the Azure Notification Hub.

1. On the Windows phone, tap the Push Notification app.



- 2. Three text fields and a Subscribe button are displayed.
 - Notification hub name: name of the notification hub as configured in Windows Azure.
 - Hub connection string: used to authenticate the Windows phone against the notification hub. Once authenticated, a secured connection between the device and notification hub is established.
 - Tags: optional; used to filter notifications sent to the device. If more than one tag is specified, they should be separated using commas.

PUSH NOTIFICATION
Notification hub name:
Hub connection string:
lags (Optional. values must be in csv tormat); Location:
Redmond
Subscribed

3. To test the RPI Windows Phone Push Notification Demo App, enter the following values in the textboxes:

- Notification hub name = demopushnotification
- Hub connection string = Endpoint=sb://Redpointintera AccessSignature;SharedAcc
- Provision of Tags is optional.
- 4. To register the device at the Notification Hub, tap the Subscribe button. The phone will attempt to establish contact with the hub:

2:05
PUSH NOTIFICATION
Interaction
Notification hub name:
Device is contacting the hub
Hub connection string:
Endpoint=sb://redpointinteraction.se
Tags (Optional, Values must be in csv format):
Location
Redmond
Subscribed

5. Once the device has been successfully registered to the Notification Hub, it is now ready to accept notifications.



To unregister from the Notification Hub, tap the Unsubscribe button. Once successfully unregistered, the phone will no longer receive notifications from the Hub.

2.3 Push Notification for Android Phone

This section documents the creation of a Google API project and installation/configuration of the RPI Android Push Notification Demo App.

2.3.1 PC Pre-requisites

- 1. AndroidSDK: The Android SDK provides the API libraries and developer tools necessary to build, test, and debug apps for Android (<u>http://developer.android.com/sdk/index.html</u>)
- 2. Latest version of the Android Studio (https://developer.android.com/studio/index.html)
- 3. Java Development Kit(JDK) (<u>http://www.oracle.com/technetwork/java/javase/downloads/index.html)</u>

2.3.2 Push Notification Client App Deployment

The following steps describe how to deploy the RPI Android Push Notification Demo App.

- 1. Ensure that an Android phone is connected to your PC.
- Obtain a copy of the AndroidPushNotification source code. Make sure that no files are read-only. You can find the project on Humboldt by browsing TFS path \$/Resonance/MobileClient/_Master/AndroidPushNotification_AndroidStudio

3. Open the Android Studio.



4. Click 'Open an existing Android Studio project' and browse the copy of the *AndroidPushNotification* source code then click 'OK'



5. Once the android project is loaded, click **Build > Build APK**



6. Click Event log.



7. Once the build is completed you can browse the apk by clicking the 'Show in Explorer' link



8. Copy and install the apk file into your device.

2.3.3 Creating and Setting up a Google API project

This section creates a Google API project and configures Google Cloud Messaging for Android devices for push notification.

After completing these steps, you should have a Sender ID and an API key, which can be used later to configure the RPI Android Push Notification Demo App and Notification Hub.

To create a Google API project, please follow the steps below:

- 1. Open the Google API Manager page (https://console.developers.google.com/apis/).
- 2. Click Create a project. You will be prompted as shown:

PushN	otificationDemo	
Your proj	ect ID will be pushnotificationdemo-1363 📀 Edit	
Show ac	vanced options	
Create	Cancel	

3. Enter a Project name. Click Create and you will be redirected to the newly created project:



4. Click 'Project information'



5. Take a note of the Project number (363997629329 in this example) as it will be used later as the Sender ID. Then click OK

Project information	ect.	
Project ID	pushnotificationdemo-1363	
Project name	PushNotificationDemo	
Project number 🕐	363997629329	
ОК		

2.3.4 Enabling the Google Cloud Messaging (GCM) Service

To enable the GCM service, please follow the steps below:

- 1. In the Google API Manager page, select the previously created project (*PushNotificationDemo* in the worked example).
- 2. On the overview page, search for 'Google Cloud Messaging'

Overview	
Google APIs Enabled APIs (0)	
Q Google Cloud Messaging Back to popular APIs	
Name	Description
Google Cloud Messaging	Google Cloud Messaging allows for push messaging to Android, iOS and Chrome users.
Google Cloud Pub/Sub API	Provides reliable, many-to-many, asynchronous messaging between applications.

3. Select 'Google Cloud Messaging', then click Enable button.



2.3.5 Obtaining an API Key

- 1. To obtain an API key, in the Google API Manager page, select the previously created project (*PushNotificationDemo* in the worked example).
- 2. Click 'Credentials' then 'Create credentials'

Credentia	als
Credentials	OAuth consent screen Domain verification
	APIs Credentials
	You need credentials to access APIs. Enable the APIs you plan to use and then create the credentials they require. Depending on the API, you need an API key, a service account, or an OAuth 2.0 client ID. Refer to the API documentation for details.
	Create credentials 🔻

3. Create credentials using 'API key'

Credentia	als
Credentials	OAuth consent screen Domain verification
	API key Identifies your project using a simple API key to check quota and access. For APIs like Google Translate.
	OAuth client ID Requests user consent so your app can access the user's data. For APIs like Google Calendar. Service account key Enables server-to-server, app-level authentication using robot accounts. For use with Google Cloud APIs.
	Help me choose Asks a few questions to help you decide which type of credential to use.
	Create credentials 💌

4. Select server key

Create a ne	w key	
You need an A project. Also,	API key to call certain Google APIs. The API key identifie it is used to enforce quotas and handle billing, so keep i	s your t safe.
Server kev	Browser key Android key iOS key	

5. Enter a name for the server key and click Create

Credentials
(
Create server API key
This key should be kept secret on your server Every API request is generated by software running on a machine that you control. Per-user limits will be enforced using the address found in each request's userIp parameter, if specified. If the userIp parameter is missing, your machine's IP address will be used instead. Learn more
Name
RedPointPushNotification
Accept requests from these server IP addresses (Optional) Examples: 192.168.0.1, 172.16.0.0/12, 2001:db8::1 or 2001:db8::/64
IP address
Note: It may take up to 5 minutes for settings to take effect Create Cancel

6. Your new API key will be shown in a prompt. Use this as the GCM key to configure the Windows Azure Notification Hub.

Here is your API key		
AIza	AQ	Ū

2.3.6 Android Phone Configuration

Configuration of the RPI Android Push Notification Demo App assumes successful prior configuration of the Windows Azure Notification Hub.

Please follow these steps:

- 1. Open the installed RPI Android Push Notification Demo App.
- 2. Configure properties as follows:
 - Set Sender ID to the Project Number recorded when creating the Google API Project.
 - Provide the Notification Hub name.
 - Set the Hub connection string.
- 3. Click Subscribe to register the application for Push notifications.
- 4. Click Unsubscribe to opt out of the receipt of messages from the Notification Hub.

RedPoint Push Notification Demo					
Sender ID					
6441					
Notification hub name					
demopushnotification					
Hub connection string					
Endpoint=sb://redpointinteraction.servic					
Tags					
android					
Location					
Manila					
UNSUBSCRIBE					

2.4 Push Notification for iOS Phone

This section documents the creation of an iOS project and configuration of an Apple Push Notification Service (APNS).

2.4.1 Mac Pre-requisites

- 1. xCode 4 interface builder
- 2. Mac OS X

2.4.2 RPI iOS Push Notification Demo App Deployment

- 1. Ensure the iOS phone is registered on Apple's developer site.
 - Log on to developer.apple.com and go to Member Center > Certificates Identifiers & Profiles.

ú	Developer					
ŵ	People	Programs & Add-ons	Your Account			
Organization: RedPoint Global Inc.						
	Developer Program Resource	ces				
	Technical Resources and 1 Dev Centers Quickly access a IOS Mac Se	Cools a range of technical resources. fari	8	Sentificate i	Certificates, Identifiers & Profiles Manage your certificates, App Ds, devices, and provisioning profiles.	
	App Store Distribution App Store Re Learn about how App Store Subm	source Center to prepare for ission.		J	ITunes Connect Submit and manage your apps on the App Store.	
	Community and Support Apple Develop Discuss technice	oper Forums al topics with other developers and Apple	engineers.	R	Developer Support Request technical or developer program support. Technical Program	

• Register the device's UID:

Certificates, Identifiers	s & Profiles					
iOS Apps 🔹	iOS Devices +					
Ø Certificates	You can register 96 addition	nal devices.				
■ All	Name	UDID				
PendingDevelopmentProduction	Aileen\'s iPad	4b4cab754500cf15565cc5b6071e0e8	985e1a086			
	Nathans iPad	13e6a1dc94a352a464f8afc0915a74dd	14d0362a0			
	Nathans iPhone	04aa0f171232c8add588cecf8356f1e0f	f8b270d0			
 Identifiers App IDs Pass Type IDs Website Push IDs 	Vin's iPhone 4	e2f536cd46b39e59dc98c9948761284	ff8a4eba1			
Devices						
 Provisioning Profiles All 						

• Create a provisioning profile:

🗯 Developer	Technologies Resources	Programs Support Member Cente	r Q Search Developer	
Certificates, Identifiers	& Profiles		Account 🔻	
iOS Apps	, iOS I	Provisioning Profiles	+ 🗷 Q	
Certificates	4 profiles total.			
all 🖉	Name	Type	Status	
Pending	iOS Team Provisioning Profile: *	Development	 Active (Managed by Xcode) 	
Development	RP QA Provisioning	Development	 Active 	
Production	RPiOS7	Development	Active	
Identifiers Ann IDs	RPiOSProvisioningProfile	Development	Active	
Pass Type IDs				
Website Push IDs				
Devices				
All				
Provisioning Profiles				
= All				
Development				
Distribution				

2. In the xCode interface builder, open your XCode project by clicking Product > Archive menu. The project can be found at *\$/Resonance/MobileClient/_Master/iOSPushNotification*

RP IOS Push Notification Scher	ne) IOS Device	Run	ЖR	1e: Succeeded	12/6/13 at 4:52	PM A10				
	Winnest WACTUTTODA	Test	жU							
1 target JOS SDK 7.0	#import "ASIFormDa	Profile	81							
Generation framework	#import "SBJSON.h"	Analyze	∲#B							
Diby 1 1 3 dylib	#import "MBProgres	Archive								
Clibe 1.2.5 dulb	#Diport Rear office									
MobileCoreServicer framework	@interface RedPoin	Build For	•							
SurtemConfiguration framework	Bend	Perform Action	•							
CENetwork framework	Geing		100							
= 00 iOC Bush Natification	@implementation Re	Build	жB							
No row	Asynthesize servic	Clean	0 %K							
	@synthesize userNa	Stop	¥.							
P MBProgresshuD	@synthesize servic									
P Asin i Prequest	esynthesize result esynthesize userNa	Scheme	•							
h RedPointAppDelegate.h M	@synthesize result	Destination	•							
m RedPointAppDelegate.m M	@synthesize univer	Counter Bat		:ID;						
MainStoryboarone.storyboard M	Asynthesize client.	Create Bot								
h PushMessageViewController.h A	@synthesize clientI	DAP = _clientIDAP;								
m PushMessageViewController.m A	@synthesize deviceT	okenP = _deviceTok	enP;							
MainStoryboard_iPad.storyboard M	gsynthesize devicer	okenAP = _deviceio	cenar;							
h RedPointViewController.h M	@synthesize notific	ationHubNameP = _n	otificatio	nHubNameP;						
m RedPointViewController.m M	@synthesize hubConn	ectionStringP = _h	ubConnect:	onStringP;						
Supporting Files	Øsynthesize notific	ationHubNameAP = 1	notificat:	onHubNameAP;						
RP IOS Pushation-Info.plist M	@synthesize hubConn	ectionStringAP = _	ubConnect	ionStringAP;						
InfoPlist.strings	@synthesize tagsAP	= _tagsAP;								
m main.m	- (void)viewDidLoad									
h RP IOS Push Notification-Prefix.pch	{									
Default.png	[super viewDidL	oad];								
Default@2x.png	// Do any addit	ional setup after	loading th	e view, typie	cally from a nib.					
Default-568h@2x.png	NSArray *paths	= NSSearchPathForD.	irectories	InDomains (NSC	DocumentDirectory	, NSUserDo	omainMask, YES);			
Data.plist	NSString #docum	Path = [documentsPi	ath string	ByAppendingP	athComponent: @"Da	ta.olist"	1.			
🔻 🧰 Frameworks	and the second second second	and the second second second			in contributions					
UlKit.framework	if (![[NSFileMa	nager defaultManage	er] fileE	istsAtPath:p	listPath])					
Foundation.framework	plistPath =	[[NSBundle mainBut	dlel patt	ForResource:	"Data" ofType:#"	plist"]:				
CoreGraphics.framework	}					Surrey of the				
Products	NEData and Lot M		. dofo.145	anneal contr	and a fail to be a light	ath1.				
	NSString serror	Desc = nil;	ucroutt	anager) conte	and a second pulse	arul :				
	NSPropertyListF	ormat format;								
	NSDictionary *t	emp = (NSDictionary	(*) [NSP	opertyListSe	rialization prope	ertyListFro	onData:plistXML	mutabilityOp1	tion:	
	if (!temp)	13 Chorab (CCOntaine)	SMIGLEOVE	5 1011101.0101	mac errorbescrip	reaction along	nuese),			
	{									
A	NSLog (@"Err	or reading plist: s	Ne, format	: ng", errort	uesc);				More % convers	ions than data argume
10-5-6										
A 100 BH 100	colf universali	alouaTD - Itoma ahi	act Eack as	· Attile (good by ()	In secol TDH L					

3. XCode will build and archive your project. Once done, it will open the Archive window. Select your archive from the list and click Distribute.

				Devices Projects Archives	
Push Notification					
- RP iOS Push Notification		_			
- RP iOS Push Notification		Pu	sh Notification		
		RP	OS Push Notification Se	cheme	
		Arc	ive Type: iOS App Archive		Validate
		Crei	tion Date: December 19, 20	013 2:57 PM	Distribute
		Ver	ion: 1.0		
		Ider	tifier: com.redpoint.interac	tiondev	
		Esti	mated App Store Size: Es	timate Size	
					(Q* Name
	Name	Creation Date	 Comment 	Status	
	RP IOS Push Not	December 19, 2013	2:57 PM		
	RP IOS Push Not	December 6, 2013	ES2 PM		
	RP IOS Push Not	December 3, 2013 a	::U7 PM		
	RF IOS Push Not	November 19, 2013	4:13 PM		
	RF IOS Push Not	September 19, 2013	2:23 FM		
	RP IOS Push Not	September 10, 2013	4:12 PM		
	RP IOS Push Not	September 4, 2013	1-28 DM		
	RP iOS Push Not	September 2, 2013	3:40 PM		
	RP IOS Push Not	September 2, 2013	1:51 PM		
	RP IOS Push Not	August 29, 2013 12	43 PM		
	RP iOS Push Not	August 28, 2013 4:	I 9 PM		
	RP iOS Push Not	August 27, 2013 4:	L2 PM		
	RP IOS Push Not	August 14, 2013 8:	L8 PM		

4. Choose "Save for Enterprise or Ad Hoc Deployment" from the methods of distribution.

	Devices Projects Kachives	
■ Puth Notification ■ RPI OS Puth Notification ■ RPI OS Puth Notification	Select the method of distribution: Submit to the IOS App Store Sign, package and submit application to the IOS App Store. Sign, package and submit application to the IOS App Store. Sign, package application for distribution outside of the IOS App Store. Sign and package application for distribution outside of the IOS App Store. Sign and package application for distribution outside of the IOS App Store. Sign and package application for distribution outside of the IOS App Store. Sign and package application for distribution outside of the IOS App Store. Sign and package application for distribution outside of the IOS App Store. Sign and package application for distribution outside of the IOS App Store. Sign and package application for distribution outside of the IOS App Store. Sign and package application for distribution outside of the IOS App Store. Sign and package application for distribution outside of the IOS App Store. Sign and package application for distribution outside of the IOS App Store. Sign and package application for distribution outside of the IOS App Store. Sign and package application for distribution outside of the IOS App Store. Sign and package application for distribution outside of the IOS App Store. Sign and package application for distribution outside of the IOS App Store. Sign and package application for distribution outside of the IOS App Store. Sign and package application for distribution outside of the IOS App Store. Sign and package application for distribution outside of the IOS App Store. Sign and package application for distribution outside of the IOS App Store. Sign application for distribution outside of the IOS App Store. Sign application for distribution outside of the IOS App Store. Sign application for distribution outside of the IOS App Store. Sign application for distribution outside of the IOS App Store. Sign application for distribution outside of the IOS App Store. Sign application for distribution outside of the IOS App Store. Sign applic	Qr hame
	RP IOS Push Ni Cancel Previous Next	

5. Select the appropriate provisioning profile.

	Devices Project Arrives
😬 Push Notification	
Nuh Notification EP IOS Push Notification EP IOS Push Notification	Name Procession Procession Name Procession Pr

6. Save to the destination folder.

	Divers Projects Arthurs	
Rob Notification KP (OS Plush Notification KP (OS Plush Notification	Save As: (P IOS Push Notification	Validate Distribute
	Providuas Finish RP 05 Push N	

7. Go to the folder where the ipa file was saved. Click and drag the file to the iTunes application. If the same application has been added to iTunes already, a prompt to replace the app will appear. Choose "Replace".

		sktop			PROV	
FAVORITES	Interaction		Senaran Shor 2013 - 2024	Stocken Slicer MOTO STRAT	AD 461	Unter
All My Files AirDrop	 InteractionPbileprovision ios_7_betaa4449d.dmg iPad3,1_7.0Restore.ipsw 			0	-	6
Applications	iPhone5,2_7estore.ipsw RP iOS Push1-19 QA.ipa			IPA		1
Documents	 RP iOS Pushn 11-19.ipa RP iOS Push2032013.ipa 		section Shore	KONIN 19040	Upito dine	Unterer
O Downloads	 RP iOS Push2062013.ipa RP iOS Push2192013.ipa 			n d		6
J Music	RP IOS Pushhive IPad.ipa		R. Contraction	11 D		
Pictures	RP iOS Pushation QA.ipa	IPΔ	Screen Shot 2016 3 PM	UAGE UPON	Sereen Shot 2013 (5 PM)	Notifi
SHARED	RP IOS Pushtion.ipa alias			6		6
apo apo	Screen Shott 3.10.36 PM		-	U PA		
blik	Screen Shott 5.10.13 PM	Name RP IOS Push Notification 12192013.ipa Kind IOS App	Seroon Shot	RP IOS Push	Screen Shot	RP 10
freenas	Screen Shott 2.52.32 PM	Size 319 KB Created Today 2:58 PM	Construction			
janzen-pc	Screen Shott 2.52.43 PM Screen Shott 2.57.46 PM	Modified Today 2:58 PM Last opened Today 2:58 PM	100 Mar -		9	
All	Screen Shott 2.57.52 PM Screen Shott 2.58.12 PM		Screen Shot	RP IOS Push	RP IOS Push	RP 10
	(mus (hu + 2 (0 12 0))		20082940	Notifi. 13.ipa	NOTE: Auge	Notti
						5
			Screen Shot 2013 2 PM	RP iOS Push Notifi 13.ipa	RP iOS Push Notifi alias	iPhone _111A
			•			

8. Plug the phone into the Mac and open iTunes. Click the device on the sidebar and go to Apps. Locate the app in the list (Push Notification in the image) and make sure the button says, "Will Install". If it says "Install", click the button. Sync the device in iTunes and the app will be installed on the phone.



2.4.3 Creating and Setting Up an iOS project

After completing these steps, you should have a Sender ID and an API key, which you can use later to configure your application and Notification Hub. To create an iOS project please follow the steps below:

- 1. Login to your account in Apple Developer <u>http://developer.apple.com</u>.
- Go to *Member Center > Certificates, Identifiers & Profiles*. Click on App IDs under Identifiers and click the Add (+) button.
- 3. Fill in the required information to create a new App ID:

iOS Apps 🔻		iOS App IDs	+ Q
Certificates	2 App IDs Total		Add
All	Name	* ID	
Pending	Interaction development	com.redpoint.interactiondev	
Development	XCode managed	×	
Production			
Identifiers			
App IDs			
Pass Type IDs			
Website Push IDs			
Devices			
All			
Provisioning Profiles			
All			
Development			
Distribution			

- 1. Click on Devices and click the Add (+) button. Enter the ID of the phone that will be used to test the RPI iOS Push Notification Demo App.
- 2. Click All under Certificates. Create a new certificate by clicking the Add (+) button. Choose the type of certificate according to the app's requirements.

iOS Apps 🔹	iOS Certificates					
Certificates	3 Certificates Total					
All	Name	Туре	Expires			
Pending	Nathan Pari-an	iOS Development	Jul 10, 2014			
Development	RedPoint Global Inc.	iOS Distribution	Aug 13, 2014			
Production	com.redpoint.interactiondev	APNs Development iOS	Aug 14, 2014			
 Identifiers App IDs Pass Type IDs Website Push IDs 						
All						
 Provisioning Profiles All Development Distribution 						

3. Once the certificate is created, download the file.

	+ 9		
3 Certificates	Total		_
Name		Туре	Expires
Nathan Pari-a	n	iOS Development	Jul 10, 2014
Centificate	Name: Nathan Pari-an Type: iOS Development Expires: Jul 10, 2014 Revoke Download		
RedPoint Glob	al Inc.	iOS Distribution	Aug 13, 2014
com.redpoint.i	interactiondev	APNs Development iOS	Aug 14, 2014

2.4.4 Utilizing the Certificate on Windows Azure

Using the certificate created in the previous section, configure the Windows Azure Notification Hub:

- 1. Log in to your Windows Azure account at http://portal.azure.com. Go to Service Bus and navigate to the desired notification hub.
- Click on More Services then Notification Hubs. Select your notification hub from the list. Click Push Notification then Apple (APNS). Under the Apple (APNS), click on Upload Certificate and locate the certificate downloaded in the previous section.

Iotification Hubs 🖈 🗕 🗖 🗙 IdPoint IT Operations	demopushnotification	* _ 🗆 ×	Push notification C	3 X	Apple (APNS) ×	Upload Cert
🕇 Add 🛛 🗄 Columns 💍 Refresh	🗰 Settings 🗹 Manage in full 🗘 Test Send 🍈 Delete				Tupload Certific 📋 Delete Certifica	🗜 Save 🗙 Discard
ubscriptions: All 2 selected					Cartificata Thumborist 0	Ela.
Filter items			GENERAL		871859267437AD78C3A87F9DC562AC89	Select a file
All subscriptions 🗸			🏟 Apple (APNS)	>		
NAME			B Google (GCM)	>		Password 0
demopushnotification			Windows (WNS)	>		
	No access		Windows Phone (MPNS)	>		Mode Production Sandbox
	Settings	Add tiles 🕀	a. Amazon (ADM)	>		
	Settings Rush notification Push notification		🖀 Baidu (Android China)	>		
	TroubleShooting	Add tiles 🕀				
	Test Send					
	Add a section \oplus					

2.4.5 RPI iOS Push Notification Demo App Configuration

To configure the RPI iOS Push Notification Demo App, please follow these instructions:

- 1. Install and open the RPI iOS Push Notification Demo App.
- 2. Set the Notification Hub Name to Redpoint-notification-hub.
- Set the Hub connection string to Endpoint=sb://Redpointinteraction-ns.servicebus.windows.net/;SharedAccessKeyName=DefaultListenSharedAccessSignature;SharedAccessKey=rdDtlcNxs lufTxGEy2Vg8VQSDAbJ1k0d5Ps2ExxtJ9I=).
- 4. Set optional Tags to subscribe to specific sets of notifications.
- Click Subscribe to register the application for push notification.
 Click Unsubscribe if you do not wish to receive any further messages from the Notification Hub.

Hub Connection String: Endpoint=sb://redpointinteraction.servicebus.windows.net/;SharedAccessKeyNam Tags: Subscribe Unsubscribe	damanustra	tification
Hub Connection String: Endpoint=sb://redpointinteraction.servicebus.windows.net/;SharedAccessKeyNam Tags: Subscribe Unsubscribe	demopusnin	
Endpoint=sb://redpointinteraction.servicebus.windows.net/;SharedAccessKeyNam Tags: Subscribe Unsubscribe	Hub Conne	ction String:
Tags: Subscribe Unsubscribe	Endpoint=st	://redpointinteraction.servicebus.windows.net/;SharedAccessKeyNam
Subscribe Unsubscribe	Tags:	
Subscribe Unsubscribe		
Subscribe Unsubscribe		
Subscribe Unsubscribe		
	Subscribe	Unsubscribe

3. In the Create a Namespace popup dialog box, enter a namespace name and select your appropriate region as depicted below. Click OK.

CREATE A NAMESPACE	
Add a new namespace	
NAMESPACE NAME	
RedPointInteraction	
.servicebus.windows.net	
REGION	
East Asia	
	\checkmark

4. Once the namespace has been successfully created, you will see it appear on the list of namespaces as shown below. Double click the '[Name]-ns' namespace.

service bus				
NAMESPACE NAME	STATUS	LOCATION	SUBSCRIPTION	CREATED DATE
RedPointInteraction-ns	→ ✓ Active	East Asia	Pay-As-You-Go	9/13/2013 12:57:58 PM

5. In the '[Name]-ns' namespace configuration page, select the Notification Hubs tab.

redpointinteraction-ns					
ALL QUEUES	TOPICS	RELAYS NOTIFICATION HUBS CONFIGURE			
NAME		STATUS	SUBSCRIPTION		

6. Click New > Service Bus > Notification Hub > Quick Create to create a new Notification Hub.

NEW				
	۲	MEDIA SERVICE	QUEUE	QUICK CREATE
x	卽	SERVICE BUS	торіс	
¢°0	M	VISUAL STUDIO ONLINE PREVIEW	RELAY	
\odot	6	BIZTALK SERVICE	NOTIFICATION HUB	
<u>m</u>				

7. In the Quick Create panel, enter the Notification Hub Name, select a Region and the earlier Namespace, and click Create a New Notification Hub.

	×
NOTIFICATION HUB NAME	
redpoint-notification-hu	0
REGION	
East Asia	•
NAMESPACE	
RedPointInteraction-ns	•
	.servicebus.windows.net

8. Once the hub has been successfully created, it will appear in the Notification Hubs list.

redpointinteraction-ns										
62	ALL	QUEUES	TOPICS	RELAYS	NOT	IFICATION HUBS	CONFIGURE			
NA	ME					STATUS			SUBSCRIPTION	
redpoint-notification-hub → ✓ Active Pay-As-You-Go						Pay-As-You-Go				

9. Double click the new hub. The hub's configuration page is displayed.

redpoint-notification-hub								
DASHBOARD MONITOR SCALE CONFIGURE DEBUG								
APNS AUTHENTICATION ER	M AUTHENTICATION ERR 📀 NOTIFICATION	SERVICE ERR 7 MORE 🗸	RELATIVE 🗸 1 HOUR 🗸 🖑					
1225 1230 1235 1240	12:45 12:50 12:55	1:00 1:05	110 115 120 125					
usage overview			quick glance					
REDPOINT-NOTIFICATION-HUB	ER HUBS AVAILABLE		(i) View Connection String					
0 Pushes			STATUS					
PUSHES		0% of 3667 PUSHES	Active					
0 API calls https://redpointinteraction- ns.sevicebus.windows.net/red								
API CALLS	0% of 14666 API CALLS	notification-hub						
13 Active devices Operation Logs								
ACTIVE DEVICES	of 500 ACTIVE DEVICES	WNS STATUS Not Configured						
15 Registrations	_	MPNS STATUS						
REGISTRATIONS	0%	of 5000 REGISTRATIONS	Unauthenticated Push Enabled					
			APNS STATUS Valid Credentials					
- 10. Select the Configure tab, where the following need to be configured:
 - Windows phone notification settings (mpns): ensure the Enable unauthenticated push notifications option is checked.
 - Apple notification settings (apns): ensure the Apple service certificate thumbprint is uploaded.
 - Google Cloud messaging settings (gcm): ensure the Google cloud messaging console GCM API key is provided.

CERTIFICATE THUMBPRINT		Upload	Delete	0
	Enable unauthenticated push notifications.			
apple notification se	lungs			
appie noutication se	contraction of the second seco	Upload	Delete	0
CERTIFICATE THUMBPRINT		Upload	Delete	Ø
google cloud messa	ging settings	Upload	Delete	Ø

2.5 Google Firebase

This section describes the steps to be taken to use Google Firebase with RPI.

2.5.1 Creating and Configuring a New Google Project

This section describes how to create and configure a new Google project. If you have created one previously, you may skip this section. Otherwise, please follow the steps below:

- 1. In a web browser, log into the Google API console at https://console.developers.google.com/apis/credentials using a Gmail account.
- 2. If this is your first time accessing the Google Developer Console, create a new project by clicking on the Create Project button. If not, skip this step.

Google Developers Console			
Projects	Create Project		
Billing Account settings	PROJECT NAME		

3. Enter the name of the project and click Create button. Leave the default Project ID value.

RUJECT NAME	0	
My Project		
PROJECT ID 📀		
poise		C
poise		

4. Having successfully created the project, double-click the project name.

Google Developers Console				
Projects	Create Project			
Billing Account settings Send feedback Privacy & Terms 🖸	PROJECT NAME My API Project			

2.5.2 Enabling Google Firebase Cloud Messaging API Key

This section describes how to enable a Google Firebase Cloud Messaging API Key. Please follow the steps below:

- 1. Go to your Google Project's dashboard by navigating to API & Services > Credentials.
- 2. In the Credentials page, click Create Credentials and select API key.

Credentials	+ CREATE CREDENTIALS TO DELETE		
Name	API key Identifies your project using a simple API key to check quota and access		

3. The API key having been created; you are given the option to restrict it.

API key created					
Use this key in your application by passing it with the	ne <mark>key=API</mark>	_KEY parameter.			
Your API key AIzaSyAkD		٦			
A Restrict your key to prevent unauthorized use in production.					
	CLOSE	RESTRICT KEY			

- 4. Click Restrict Key. You will be provided with options as to which restrictions are to be applied.
- 5. Make sure that 'None' is selected at Application restrictions.
- 6. At API restrictions, select 'Don't restrict key', or select 'Cloud Messaging' at the Restrict key dropdown.

	←	Rest	rict and rename API key	C REGENERATE KEY	DELETE		
	Key restrictions						
		A	This key is unrestricted. Restrictions theft. Learn more 🛛	help prevent unauthorized use	and quota		
	Application restrictions						
	An application restriction controls which websites, IP addresses, or applications can use API key. You can set one application restriction per key.						
	 None HTTP referrers (web sites) IP addresses (web servers, cron jobs, etc.) Android apps iOS apps 						
		API restrict API restrict Don't This k Restr	strictions ctions specify the enabled APIs that th restrict key key can call any API rict key	is key can call			
	1.	Type t	to filter				
	C	Cloud	Deployment Manager V2 API				
		Cloud	Firestore API				
		Cloud	Functions API				
4		Cloud	Messaging				
		Cloud	OS Login API				
	C	Cloud	Pub/Sub API				
	C	Cloud	Resource Manager API				

7. Click Save for the changes to take effect.

2.5.3 Provisioning an OAuth Client ID

This section describes how to provision a new Google Firebase OAuth Client ID.

1. At the Credentials page, click Create Credentials and select OAuth client ID.



2. Choose "Web Application" as the application type. Set an authorized redirect URI. This will be used at the Google Firebase channel configuration.

	Create OAuth client ID
For gen	applications that use the OAuth 2.0 protocol to call Google APIs, you can use an OAuth 2.0 client ID to erate an access token. The token contains a unique identifier. See Setting up OAuth 2.0 for more information.
App	lication type Web application Android Learn more Chrome App Learn more IOS Learn more
	Other
Nan	ne 🕢
Fi	rebase OAuth
Ente Orig	rrections r JavaScript origins, redirect URIs, or both Learn More ins and redirect domains must be added to the list of Authorized Domains in the OAuth consent settings. Authorized JavaScript origins For use with requests from a browser. This is the origin URI of the client application. It can't contain a wildcard
	(https://*.example.com) or a path (https://example.com/subdir). If you're using a nonstandard port, you must include it in the origin URI.
	https://www.example.com
	Type in the domain and press Enter to add it
	Authorized redirect URIs For use with requests from a web server. This is the path in your application that users are redirected to after they have
	authenticated with Google. The path will be appended with the authorization code for access. Must have a protocol. Cannot contain URL fragments or relative paths. Cannot be a public IP address.
	authenticated with Google. The path will be appended with the authorization code for access. Must have a protocol. Cannot contain URL fragments or relative paths. Cannot be a public IP address. https://www.redpointglobal.com/

3. Save your Client ID and Client Secret. These will be used when configuring a channel.

OAut	h client created		
The clien Services	t ID and secret can always be a	accessed from Credentials in APIs a	8
0	• OAuth is limited to 100 <u>sensitive scope logins</u> until the <u>OAuth</u> <u>consent screen</u> is published. This may require a verification process that can take several days.		
Your Cli 183008	ent ID	jc8h2pjg1jh9qbn3t.apps.gc	٦
Your Cli JD6Nb-	ent Secret 2e		٦
			ОК

2.5.4 Provisioning a Google Firebase Cloud Messaging Project

- 1. In a web browser, navigate to https://console.firebase.google.com/u/0/ and log into the Google Firebase console page.
- 2. Click Add project.



3. Enter the project's name.



4. Click Continue at step 2.

×	Create a project (Step 2 of 3)	
	Google Analytics is a free and unlimited analyt reporting, and more in Firebase Crashlytics, Cl Config, A/B Testing, Predictions, and Cloud Fu	tics solution that enables targeting, loud Messaging, In-App Messaging, Remote ınctions.
	Google Analytics enables:	
	👗 A/B testing 💿	👶 Crash-free users ⊘
	User segmentation & targeting across	Levent-based Cloud Functions triggers ⑦
	Predicting user behavior ⑦	. Free unlimited reporting ⑦
	Enable Google Analytics for this projec Recommended	ot
	Previous	Continue

5. Select an account at step 3.

C	Configure Coogle Applytics
	Configure Google Analytics
Ch	hoose or create a Google Analytics account ③
Up Fire An	pon project creation, a new Google Analytics property will be created in your chosen Google Analytics account and linked to your rebase project. This link will enable data flow between the products. Data exported from your Google Analytics property into rebase is subject to the Firebase terms of service, while Firebase data imported into Google Analytics is subject to the Google nalytics terms of service. <u>Learn more</u> .
Pr	revious Create project

6. After your Firebase project has been created, you must add your app (e.g., iOS, Android) in it. For detailed and accurate steps, please see the following:

iOS - https://firebase.google.com/docs/ios/setup

Android - https://firebase.google.com/docs/android/setup

2.6 Airship Push Direct Notification Configuration

2.6.1 Creating a Project

-

This section describes how to create and configure Airship on Android Mobile and iOS Mobile. Please follow the steps below:

1. In a web browser, navigate to <u>https://go.airship.com/</u> and click on Don't have an account? Sign Up.

AIRSHIP III III III III III III III III III				
Login Username Password Forget?				
Log In togo logged in for two weeks. Don't have an account? Sign up	•			

2. Fill out the required details and click the Create account button.

Create an Ai	rship account
	DOWNLOAD DEMO APP
First name	See it on your device
Last name	Send yourself a Push Notification or In-App Message with the 1st Flight demo app — no developer resources required. You can even try Airship Journeys and Message Center.
	TRY FEATURES
Email address	Set up a test project Evaluating the Airship platform? Need a test sandbox? Install the Airship SDK to get a first hand look at how easy it is to send Push Notifications, In-App Messages and Web Notifications.
	GO LIVE
By creating an account, you agree to the Terms of Online Service and Privacy Policy. Create account	Start growing your audience Ready for production? Create a live project, install the Airship SDK and release on an app marketplace or website. Free up to an audience of 1,000 – pay as you grow.
Already have an account? Log in	

- 3. Check your email to verify account and click the link.
- 4. Fill out the required fields to Create Password.

	Create password
	Passwords must be 8 characters, inclusding one number and one special character.
Pa	issword
Co	onfirm password

5. The New Project set up screen displayed. To get started, click Create a project.

Get started Create a project, add configuration for channels and start sending messages.	Create a project
Tendens	
rry demo Try demo Download the 1st Flight demo app and try out features. Learn more	Download the app
Graw audiones	
Grow addrence Start growing your addence on the Orchestration Edition with access to Journeys and In-App Messaging.	Manage your plan
ото султа и таки и т	

6. Enter your project's details and click Create project.

New Project	
container for messaging engagement and channel configuration.	
Project name	
An identifier for referencing your project.	
lcon	
Add a viewal marker to belo you find project (entional)	
Add a visual marker to help you find project (optional).	
Browse	
Live / Test	
Cannot be changed later.	
Test: Use to send messages to your test audience.	~
Industry	
Select an industry type and sub-industry.	
Choose Industry	~
Create project Of cancer	

7. Click Add Channel and select the channels you want your project to support.

Quickstart Guide Image: State of the	Add Channel () SMS - Gatting Started Email I CoS - APRA Setup Description
Certificate Browse. D	Android Santi Sampia App Santi Sampia App Anazon Web Netifications Open Channels Sonti Sampia App Treublechooting gide
2. Install SDK Select your preferred method for installing Airship's SDK.	GitHub Repo

- 8. To get an App Key and Master Secret follow these steps:

 - Click 1st Flight Demo
 Go to Settings » APIs & Integrations » Airship API.

2.6.2 Android & iOS Phone Configuration

After creating an account to receive push notifications on your mobile devices, please follow these steps:

- 1. In a web browser, navigate to https://go.airship.com/ and log into your account.
- 2. Click Download the app 1st Flight, then enter your email address and click Get Magic Link.
- 3. From your mobile device, check your Email and tap the message's link to download the app. Your device's app store will open at the Airship app.

🕰 A I R S H I P		0
Manage projects View a list of all your live and test projects, and the channe configured.	els they have	View all projects
Invite team Collaborate with your team by sharing individual projects.		Invite your team
Try demo Download the 1st Flight demo app and try out features. Learn more	Resend link Create your first me	ssage
Grow audience Start growing your audience on the Orchestration Edition Journeys and In-App Messaging.	with access to	Manage your plan
A magic link was sent to the second segmail.com	ail.com on May. 19, 2020 :	2:15 PM Fee

- Click Install 1st Flight App and open the app
- Log into your account using your Airship username and password
- Click Connect My App
- For iOS mobile devices, tap Enable Push then Allow to receive push notifications For Android mobile devices push is automatically enabled so this screen will not appear.
- 4. To get a Named User and Tag, please follow these steps:
 - On your mobile device, click Push Settings » Audience » Named User » Tag
 - Add Named User and Custom Tag
- 5. To find a Device Token and Channel ID, please follow these steps:
 - Log into the Airship portal
 - Click 1st Flight App Demo » Audience
 - Click Device Token copy identifiers
 - Click Channel ID copy identifiers

2.7 Twilio Notify

This section describes how to set up a Twilio Notify Service to use the Twilio Notify and Twilio Notify Direct channels in RPI. Please follow the steps below:

1. In a browser, navigate to <u>https://www.twilio.com/console/notify/getting-started</u>. Login to the Twilio portal and go to the Notify Console.

1	ŝ	Notify	Get Started with Notify	
Ģ	<u> </u>	Services	About Notify	
(Push Credentials	Twillo Notify makes it easy to send notifications to your users when and how it is most convenient for them. You can programmatically notify users using push notifications or sms. Choose the platform you're working on, and let's get started!	
		Tools Getting Started Get Started	IOS Push Notifications Visit our QuickStart Guide n	Android Push Notifications Visit our QuickStart Guide n
		Features Pricing	SMS Notifications Visit our QuickStart Guide #	Facebook Messenger Notifications Viait our QuickStart Guide n

- 2. Click Services in the menu on the left.
- 3. Create a new Service by clicking the (+) icon.



4. Type a friendly name for your Notify Service, then click Create.

	New Service		\times
Name your new Noti	y Service.		
FRIENDLY NAME			
		Cancel	Create

5. The Configure page for your newly created service will be displayed. Assign your chosen push credentials for APN (Apple iOS), GCM (Android), FCM (Android), and/or Messaging Service (SMS).

Configure		
Properties		
FRIENDLY NAME	testqa	
SERVICE SID	IScf24	
APN CREDENTIAL SID	No value selected \checkmark	Create an APN Credential here
GCM CREDENTIAL SID	No value selected \checkmark	Create a GCM Credential here
FCM CREDENTIAL SID	No value selected \checkmark	Create an FCM Credential here
MESSAGING SERVICE SID	No value selected \checkmark	Create a Messaging Service here
FACEBOOK MESSENGER PAGE ID	No value selected \checkmark	Create a Messenger Configuration here

6. To create a Push Credential, click any of the links on the Configure page or, in the menu on the left, click Push Credentials.

Notify	
Services	
Push Credentials	
Tools	
Getting Started	

- 7. The New Credential dialog window will appear. Type a friendly name for the Push Credential and select its Type.
 - The GCM Push Credential will require the GCM API key of your Android app.
 - The FCM Push Credential will require the FCM Secret of your Android app.
 - The APN Push Credential will require the certificate key and private key of your Apple app. Check the Sandbox option if the app is not yet deployed to production.
 - The Facebook Messenger Push Credential will require a configured Facebook Messenger channel in Twilio.



To configure Facebook Messenger, click the option on the Channels Catalog page.

Channels Beta	Facebook Messenger
Catalog Installed Support Getting Started	ROVER Facebook # SUPPORTS PROJECTS Programmable SMS, Totally PRCL 52.00 per request
	Description Documentation Support Policies
	Messenger Platform connects you to over 1.2 billion people each month. With bets and live-messaging tools, you can create a cutom experience for your unique audience. Messanger lets you interact with people where they already are and how they interact with each other.
	Billions of Messages Customers Want to Message
	Over 2 billion messages are sent between people and businesses each month, including both automated and people- instand.
	There are 100,000 monthly active bots on the Messenger platform, and counting

Click the "Install" button. Read and click "Agree" at the Terms of Service after reading.

Install Facebook Messenger $\qquad \qquad \qquad$
This Channel is published and supported by Facebook. When you install the Channel, Twilio shares the data required for the Channel to operate with the Add- on partner. Please check the box below to accept the Terms of Service and start using the Channel.
Price \$0.00 per request
✓ I agree to Facebook's Terms of Service.
Cancel Agree & Install

At Facebook Messenger's Configure page, specify a unique name. Check the "Notify" checkbox as well.

Facebook Messenge	er
PROVIDER F SUPPORTED P PRICE 50 00 INSTALLED	icebook # KODUCTS Programmable SMS, Notify per request Uninstall nentation Support Policies
Properties	
INSTALLED CHANNEL SID	XE #59f #0#50tb0940581#88#876602d6b20
INBOUND CHANNEL URL	https://channels.twilio.com/v2/Accounts/AC9b5ad4815678881260070d83a5a9c3e0/Receive/X893e989ba4b741738151c310e12076d42
UNIQUE NAME	messenger
USE IN	Programmable SMS Inbound
	Notify
Credentials	
FACEBOOK LOGIN	f Log Out

At "Credentials", log into your Facebook account using the Log In button, then select the Facebook Page you want associated with Twilio Notify and Facebook Messenger.

Credentials		
FACEBOOK LOGIN	F Log Out	
SELECT A PAGE	RPI App Community	\sim

In the "Configuration" section, set any desired callback URL properties.

Configuration			
PAGE ID	messenger: 345000492	596896	
PAGE FRIENDLY NAME	RPI App Community		
CALLBACK URL			
CALLBACK METHOD	POST		~
FALLBACK URL			
FALLBACK METHOD	POST		\sim
STATUS CALLBACK URL			
STATUS CALLBACK METHOD	POST		~

Save your changes. Successful configuration will be indicated by the green check mark at "Long Lived Token" under "Credentials".

Credentials	
FACEBOOK LOGIN	f Log Out
LONG LIVED TOKEN	You're all set!

8. In the Configure page, assign the Push Credentials to your Notify Service.

2.8 Amazon Pinpoint Push Notification

2.8.1 Amazon Pinpoint Push Notifications Configuration

This section describes how to create and configure the Amazon Pinpoint Push Notifications project in Amazon Web Services (AWS), with the assumption that an AWS account has already been provisioned.

2.8.1.1 Creating new Amazon Pinpoint Push Notifications project

- 1. Login to the Amazon Web Services management console, by navigating to <u>https://console.aws.amazon.com/iam/</u>
- 2. Select IAM User option and provide your Account ID or Account Alias. Click the "Next" button:

Amazon Web Services Sign-In × +	
\leftrightarrow \rightarrow C $($ $$ signin.aws.amazon.com/signin?redirect_uri=h	ttps%3A%2F%2Fconsole.aws.amazon.com%2Fconsole%2Fhome%
	aws
	Sign in
	Root user Account owner that performs tasks requiring unrestricted access. Learn more
	IAM user User within an account that performs daily tasks. Learn more
	Account ID (12 digits) or account alias
	Next
	By continuing, you agree to the AWS Customer Agreement or other agreement for AWS services, and the Privacy Notice. This site uses essential cookies. See our Cookie Notice for more information.
	Create a new AWS account

3. Provide your IAM username and password. Click the "Sign in" button.

aws
Sign in as IAM user
Account ID (12 digits) or account alias
IAM user name
Password
Remember this account
Sign in
Sign in using root user email Forgot password?

4. Upon successful login to the AWS management console, navigate or search for the Amazon Pinpoint service, and click on the link:

aws Services	Q pinp	×
🥘 Resource Groups & Tag	Services (2) Features (1) Blogs (104) Documentation (1) Events (1)	Search results for 'pinp' Services Amazon Pinpoint Engage Users via Email, SMS, Push & Analytics Route 53 Scalable DNS and Domain Name Registration
		Features Contributor Insights CloudWatch feature

5. Within the Amazon Pinpoint management console, create a new project by entering the project name and then click the "Create a project" button.

Get started
To get started with Amazon Pinpoint, create a project.
Project name
Create a project

6. In the "Configure features" page, click the "Configure" button within the Push Notification tile:

onfigure features pose a feature to add to your project. You can add more features	later.				
Project features					
Aessaging channels and response metrics					
Email Send personalized email messages to your customers. Me	Configure	SMS Send SMS text messages from shared or reserved phone numbers. Infe	Configure	Push notifications Send push notifications to users of your mobile apps. Inte	Configure
pplication analytics					
Mobile app analytics Track usage metrics for mobile applications. Infe		Web app analytics Track usage metrics for web-based applications. Info			
	Configure		Configure		

7. Expand Push notifications services and set up each push notification service by providing the required credentials. Once updated, click the "Save" button:

Set up push notifications		
Push notifications services		
Choose a push notification service to enable, and then provide your credentials for that channel.		
Apple Push Notification service (APNs)		
Authentication type O Key credentials O Certificate credentials		
Firebase Cloud Messaging (FCM) API key		
▼ Show more push notification services		
🗆 🏠 Baidu Cloud Push		
C 2, Amazon Device Messaging		
► Advanced options - optional		
	Cancel	Save

8. Create the Pinpoint import Segment ARN role by following the steps covered in the documentation provided by AWS in these two links:

https://docs.aws.amazon.com/IAM/latest/UserGuide/id_roles_create_for-service.html

https://docs.aws.amazon.com/pinpoint/latest/developerguide/permissions-importsegment.html#permissions-import-segment-trustpolicy

The Pinpoint Segment ARN role name will be used in the Amazon Pinpoint Push Notification channel configuration, under the "Segment role ARN" setting.

Segment role ARN: Amazon Resource Name (ARN) used to authorize Pinpoint to access Amazon S3 bucket folder

Note: The role must have the necessary permissions to access the Amazon S3 bucket folder that is configured for the channel.

3 Social Configuration

3.1 Facebook

3.1.1 Supported Facebook Connectors

RPI facilitates integration with Facebook in the following contexts:

Connector	Connector Type	Description	Required App Permissions
Facebook	Channels > Social	The Facebook channel allows a user to post messages to a page via a broadcast activity. It will only post to pages that are associated to the user credentials configured in the channel. Events associated with the post, such as number of likes, are sent back to RPI and are made available to report on.	v11/v12: public_profile, email, pages_manage_ads, pages_manage_metadata, pages_read_engagement, pages_read_user_content, pages_manage_posts, pages_manage_engagement
Facebook Marketing	Channels > Social	The Facebook Marketing channel allows a user to create and manage Facebook Ads, including campaigns, ads sets, and creatives. Ad analytics are sent back to RPI and are made available to report on.	v11/v12: ads_management, pages_manage_ads, pages_manage_metadata, pages_read_engagement, pages_read_user_content, ads_read, pages_manage_posts, pages_manage_engagement, business_management
Facebook Offline Conversions	Channels > Data Onboarding	The Facebook Offline Conversions connector allows users to push offline data, such as in-store transactions, to the Facebook platform where it will be matched to determine how many customers viewed or clicked on a Facebook Ad, prior to the event occurring.	v11/v12: ads_management, business_management, pages_read_engagement
Facebook Custom Audiences	Channels > Data Onboarding	The Facebook Custom Audience connector allows users to generate pre- defined and custom data files and pushes that data to the Facebook platform as either a new custom audience or appended to an existing custom audience. This process will generate a set of aggregated metrics, which can be viewed within the application.	v11/v12 : ads_management, business_management
Facebook Lookalike Audiences	Channels > Social	The Facebook Lookalike Audience connector allows users to create a lookalike audience of a custom audience. Facebook finds users who have similar attributes to the people who are in the base Custom Audience.	v11/v12: ads_management, business_management, pages_read_engagement

3.1.2 Creating a Facebook App

To use Facebook connectors in RPI, a Facebook App must be provisioned and configured with the appropriate permissions, depending on the connector. The following is a list of steps necessary to create the Facebook App: Create a Facebook Developer account:

Before creating a Developer account, ensure you are logged into a Facebook account.

You will need a Facebook Developer account to get started. If you do not have one, upgrade your personal Facebook account to a Facebook Developer account. Skip this step if you already have a developer account. Before creating a Developer account, ensure you are logged into a Facebook account.

3.1.2.1 Add a New Facebook App

Go to https://developers.facebook.com/ and click My Apps on the menu.



Click "Create App" within the dropdown and enter a Display Name for your App. The Contact Email will default to the email associated with the Developer account but can be changed, if necessary. Once complete, click on the "Create App ID" button.

Create a New App ID
Get started integrating Facebook into your app or website
Display Name
The name you want to associate with this App ID
Contact Email
This email address is used to contact you about potential policy violations, app restrictions or steps to recover the app if it's been deleted or compromised.
By proceeding, you agree to the Facebook Platform Policies Cancel Create App ID

3.1.2.2 Configure Facebook App Basic Settings

Open the Facebook App Basic Settings page by navigating to Settings > Basic.

👚 Dashboard		
🔅 Settings 📼 🚽	 App ID	App Secret
Basic	914532238609776	••••••• Show
Advanced	Display Name	Namespace
F] Roles ▶	Feedback App	
🜲 Alerts 💈 🔹 🕨	Ann Domaine	Contact Email @
App Review	App Domains	Used for important communication about your app
PRODUCTS 🕂	Privacy Policy URL	Terms of Service URL
	Privacy policy for Login dialog and App Details	Terms of Service for Login dialog and App Details
	App Icon (1024 x 1024) U24 x 1024 BUSINESS USE This app uses Facebook tools or data to • Support my own business • Provide services to other businesses	Category Business and Pages V Find out more information about app categories here

- 1. Create a Namespace for your Facebook App. Note that the namespace can only contain lowercase letters, dashes, and underscores
- 2. Enter an App Domain, with your company or organization's website URL, for example: https://www.redpointglobal.com/.
- 3. Enter your company/organization's Privacy Policy URL.
- 4. Optional Enter your company/organization's Terms of Service URL.
- 5. Upload an icon image for your Facebook App. The image must have a transparent background and cannot be larger than 1024 x 1024.
- 6. Choose a Category for your Facebook App choose any that apply to your organization.
- 7. Under Business Use, choose "Support my own business".
- 8. Complete the Business Verification to connect your Facebook App to your Facebook Business Manager account. Note, this step is not required to start using the Facebook App with RPI's connectors.

E	Business Verification							
		Verify Your Business on Escabook						
	A	You can connect your app to a Facebook Business Manager account, if applicable, and get started on the business verification process. You'll just need to upload a document showing your business or organization's name and physical address. After successfully completing business verification, you'll also need to sign either 1 or 2 contracts. Learn more	Get Started					

9. Scroll to the bottom of the page and click on the "Add Platform" button and select "Website":

Select Platform			
[Facebook Web Games]	[Website]	[ios]	(Android)
		\bigotimes	
[Windows App]	[Page Tab]	[Xbox]	[PlayStation]
			Cancel
State/Province/Region		ZI	P/Postal Code
Country United States -			
		+ Add Platf	orm

- 10. In the Site URL text box, enter the same URL used in step 3C:
- 11. Complete the Basic configuration by clicking on the "Save Changes" button.

Website		Quick Start 🗙
Site URL URL of your site		
	+ Add Platform	
		Discard Save Changes

3.1.2.3 Configure Facebook App Advanced Settings

1. Open the Facebook App Advanced Settings page by navigating to Settings > Advanced.

Dashboard Settings Basic	· 🛻	Native or desktop app? Enable if your app is a native or desktop app	Is App Secret embedded in the client? This restricts the sap secret usage to methods allowed by a client token (?)
Advanced		Upgrade API Version (2)	
App Review	•	V7.0 V Change the API version your app calls for all users (?)	Upgrade Calls for App Roles Change the API version your app calls for developers (?)

- 2. Toggle to "Yes" for Native or Desktop app.
- 3. Choose the latest API version for both "Update All Calls" and "Upgrade Call for App Roles". As of December 2021, the latest API version is 12.0.
- 4. Scroll down the page and under "Business Manager", choose the Business Manager account to associate with your Facebook App
- 5. Under "Advertising Account", enter an Authorized Ad Account ID
- 6. Once complete, hit the "Save Changes" button to proceed to the next step.

A Dashboard	
Settings Basic Advanced	•
Advanced	•
Alerts	•
App Review	•
PRODUCTS 🕀	

3.1.2.4 Configure Roles for Your Facebook App

1. Open the Facebook Roles page by navigating to Roles > Roles.

📫 Dashboard			Business M	lanager Account		
🖨 Settings	•					
PJ Roles	-	—	R	RPI Global		Edit Roles in Business Manager
Roles	_			This app is managed by KM Global. Admins of	this business can update roles and settings for this app.	-
Test Users	_					
Alerts	Þ		Administrat	iors [?]		Add Administrators
App Review	•		-			
PRODUCTS 🛞				Dan Santos	RPI Tester	
Facebook Login	•					

2. Under Administrators, associate the Facebook Account(s) that will be configured as the Authorized Account in the RPI Channel configuration.

3.1.2.5 Configure the Facebook Login Product

1. Add the Facebook Login product by navigating to Products and clicking the plus+ icon.

👚 Dashboard				
Settings				
PJ Roles ▶		Add a Product		
🜲 Alerts 💈 🕨 🕨				
App Review				
PRODUCTS 🛞			F	
		Facebook Login	Audience Network	Analytics
		The world's number one social login product.	Monetize your mobile app or website with native ads from 3 million Facebook advertisers.	Understand how people engage with your business across apps, devices, platforms and websites.
		Read Docs Set Up	Read Docs Set Up	Read Docs Set Up

- 2. Find the Facebook Login product and click on the "Set Up" button.
- 3. Navigate to Facebook Login > Settings.

	Client OAuth Settings
f Dashboard	
∯ Settings ⊧ Fij Roles ⊧	Nis Client OAuth Login Enables the standard OAuth client folian flow. Secure your application and prevent abuse by locking down which below oncertain LIBs are alreaded with the options below. Disable globably if not used. [9]
▲ Alerts () ♦ App Review ►	Web Okulth Login Endorce HTTPS Endorce HTTPS Endorce HTTPS for Bennec Ullis and the subdivided SSX, Browgi
PRODUCTS () Practicolat Login Settinga Oucceant	
i≘ Activity Log	Only allow reduceds that use the Facebook SDK or that exactly match the Valid OAuth Redirect URIs. Valid OAuth Redirect URIs. Valid OAuth Redirect URIs.
	No Logist from Devices Examine the Output clear login flow for devices Rise a smart TV (r)
	Deauthorize
	Deauthorize Callback URL
	What should we ping when a user deauthorizes your app?
	Data Deletion Requests
	Dafa Defetton Request URI. Discard Save Changes
	What should we prig when admester requests you denote their data?

- 4. In the "Valid OAuth Redirect URIs" text box, paste the following: <u>https://www.redpointglobal.com/</u> as well as the URL configured for the Website Platform in section 3K. The authorization page will not display correctly without the platform URL included as a redirect URI.
- 5. Click on the "Save Changes" button.

3.1.2.6 Configure the Marketing API product:

1. Add the Marketing API product by navigating to Products and clicking the plus+ icon.

		Marketing API Integrate Facebook Marketing API with your app. Read Docs Set Up		App Center Get your game discovered by being listed as a featured game on Facebook.		Web Payments Accept in-app payments through Facebook's secure payment system. Read Docs Set Up	
		Integrate your app with the businesses use your app account Read Docs	am e Instagram API to let with their instagram ts. Set Up	ThreatE Share and learn about everyone stay Read Docs	xchange potential threats to help more secure. Set Up	Messenger E Let people on Messenger e creatively throu Read Docs	xpression xpress themselves more gh your app. Set Up

2. Find the Marketing API product and click on the "Set Up" button.

Note regarding App Mode

There is currently no requirement to approve the Facebook App before it can be used in RPI. The App can remain in "Development" mode and continue to be used in RPI. The only requirement is ensuring the authorizing Facebook user account is configured as an Administrator in the App Roles (steps covered in step 5).

Configuring RPI Channel - Important

App permissions can be retained with their default values unless other permissions are required.

Account name is the name of Facebook profile, not the page or app.

For applicable Facebook Channels, the Page Name is the selected page to use from one of the lists of associated pages to the Facebook account. This field is auto populated after successful authorization.

3.1.3 Creating an Ad Account and Linking it to the Facebook App ID

- 1. Go to Business Manager Settings at https://business.facebook.com/.
- 2. Collapse Accounts and click Ad Accounts.

آي) Users 🗸 🗸	Ad Accounts				
Accounts	Enter ID / Asset Name / Bu Q Add - Bienvenido Asiam 2				
Pages Ad Accounts	Filter by Sort By Add an Ad Account				
Business Asset Groups	Hide closed ad accounts Hide closed ad accounts				
Apps	Bienvenido Asiam 2 Request Access to an Ad Account Your business needs to use this ad account on behalf of another business. For example, you work for an agency, and the				
Instagram Accounts	RPI Demo ad account belongs to a client. The ad account will still belong to its current owner.				
Line of Business	RPI Manila Dev Disabled Ad Account + Create a New Ad Account You need a new ad account for your business.				

- 3. Click the blue Add button, then Create a New Ad Account.
- 4. Fill out the required information and click Create Ad Account.
- 5. After creating an Ad account, link it to your Facebook App. Go to https://developers.facebook.com/
- 6. Go to Settings > Advanced. Locate the Advertising Accounts section, and add the Ad Account ID(s) you want to use to promote your app.

or Dashboard		This app is managed by the following business:
🔅 Settings	-	RPI Global
Basic		
Advanced		
🗐 Roles	P	Advertising Accounts
🛕 Alerts 105	•	
App Review	•	Authorized Ad Account IDs
		237779286425831 × 431063253764099 ×
PRODUCTS (+)		
Facebook Login	•	Share This App With a Partner?
Analytics	•	to assign an app to a ousiness partner from business manager, select the business, click Assign Partners on the Accounts Apps page and enter the Partner Business ID. Get Started
Marketing ADI		

3.1.4 Setting up the Payment Method

Before you can start advertising, you will need to give Facebook additional account information and enter your credit card details.

- 1. Go to Business Manager Settings at https://business.facebook.com/.
- 2. Navigate the Business Manager menu to locate Billing.



3. Click Payment Settings.

n = Billing		Search business	Q 🖪 RPI Okbal 👻 💆 🐼
Bienverido Asiam 2 (2377792844 💌			Create Ad
Account: Bienvenido Asiam 2			Current Balance P0.00 Payment Settings
Transactions 🕶 Last 30 days 💌 Filters 💌 Search 💌			Search by Reference Number []-
Date Billed Transaction ID	Payment Method ()	Amount Billed (9)	Payment Status
	You have no bills during this time.		

4. Click Add Payment Method.

Next Bill	
June 30, 2020	₽0.00
You won't receive a bill while your balance is ₱0.00.	Amount Due
Payment Method	Add Payment Method
You have no payment methods.	
Set Your Account Spending Limit	
You can control your total ad costs by setting an account pause when you reach the limit you set and won't run aga remove that limit. Learn more about ways to manage your	spending limit. Your ads will in until you increase or ad costs.
Amount Spent: P0.00	Set Account Spending Limit

- 5. Choose the required payment method.
- 6. Complete the required information.
- 7. Click Continue.

۲	Credit or Debit Card	VISA 😔
	Card Number	Expiration
		MM YY
	PayPal	ΡαγΡα
	Facebook Ad Coupon	

3.1.5 Create a Pixel in Business Manager (Optional)

The Facebook pixel is a piece of code that is placed on your website to report conversions, build audiences and get insights about how people are using the site. You can create up to 10 pixels in your Business Manager account.

- 1. Go to Business Settings.
- 2. Under Users and Accounts collapse Data Sources.
- 3. Click Pixels
- 4. Click the blue Add button.

$\mathbf{f} \equiv \mathbf{B}$ usiness Settings	
ع) Users	✓ Pixels
- Accounts	
💂 Data Sources 🗲	Enter ID / Asset Name / Busin_ Q Add Owned by: RPI Global ID: 10873404
Catalogs	Filter by 👻 Sort By 👻 🛃 Add People 🖨 Assign Partners
Pixels	Connect Website Activity Using Pixel
Offline Event Sets	Add pixel details
Custom Conversions	Name your pixel and list the website domains you would like to associate with this pixel. You can create up to 100 pixels per business account.
Event Source Groups	Pixel Name
Shared Audiences	Pixel Test
D Brand Safety	Check your website for easy set up options • Optional We'l check to see if your site was set up using one of our integration partners (such as Wordpress, Shopity or Squarespace) and offer incommendations for setting up your pixel up do on the next screen.
Registrations	https://
A Integrations	By clicking Continue I agree to the Facebook Business Tools Terms.
*	Give Feedback Continue

- 5. Provide Pixel Name.
- 6. Click to agree to the Facebook Pixel Terms.
- 7. Click Continue.
- 8. To Start installing your pixel on your website, Click Set Up Now. If you would prefer to stay in Business Manager, click Continue.

3.1.6 Domain Verification (Optional)

Domain verification is ownership that controls editing privileges of URLs and other content to prevent misuse of your domain and to prevent the spread of misinformation. You may get the error "Only owners of the URL have the ability to specify the picture, name, thumbnail or description params" when running a Facebook Post or Facebook Marketing interaction without verifying your domain. For Facebook Post with an image, the source URL of the image must come from the verified domain.

To verify your domain, visit: https://developers.facebook.com/docs/sharing/domain-verification/verifying-your-domain.

3.2 LinkedIn

This section describes how to create and set up a LinkedIn application for use in RPI. Please follow the steps below:

1. In a browser, go to https://www.linkedin.com/ and click on Join now.



2. Enter the required details and click Agree & Join.

Linked <mark>in</mark>				
Make the most of your professional life				
	Email or phone number			
	Password (6 or more characters)			
	By clicking Agree & Join, you agree to the LinkedIn User Agreement, Privacy Policy, and Cookie Policy.			
	Agree & Join			
	or			
	f Continue with Facebook			
	Already on LinkedIn? Sign in			

3. Type your First & Last Name and click Continue.

Linked in			
Make the most of your professional life			
	First name Last name Continue		

4. Click the box below select your current Country, City and click Next.

Linkedin	
	Welcome,
	Let's start your profile, connect to people you know, and engage with them on topics you care about.
	Country/Region * Philippines
	City/District *
	Next

5. Indicate whether or not you're a student. To do so, fill out the required fields, then click the I'm a student or the Continue box.

Your profile helps you discover the right people and opportunities					
Most recent job title * Most recent company *) `ö`	There are 5558 people on LinkedIn with similar job titles in your location.			
Industry *) ö	There are 18859557 members in the same industry on LinkedIn.			
Continue					

6. Check your email to verify account. Confirm your email address (you can also copy the code and paste it into the code field on your LinkedIn page).

Let's confirm your email			
Type in the code we sent to k			
Your privacy is important We may send you member updates, recruiter messages, job suggestions, invitations, reminders and promotional messages from us			
Agree & Confirm			
Didn't receive the code? Send again			

7. These options control what type of information LinkedIn shows you in your Home page. Click on Not now.



8. Decide whether or not to import contacts. If choosing to Skip contact import, you may need to click in a popup to confirm your decision.

Add your email contacts to see who you already know on LinkedIn
We'll periodically import and store your contacts to suggest connections and show you relevant updates. You control who you connect to, and you can manage your contacts anytime. Learn more
Continue
Skip

3.2.1 Creating a New LinkedIn App

1. To create a new LinkedIn app, Go to the developer site: <u>https://developer.linkedin.com/</u> and click Create app.



- 2. Fill out the required details and check the box to confirm that you have read and agree to the terms.
- 3. Click Create app.

in DEVELOPERS My Apps 🔻 Products	Documentation	News	Help	2
Create an app				\times
* indicates required App name* RedPoint App				
LinkedIn Page * ① This action can't be undone once the app is saved.				
Redpoint Global Inc. C Computer Software; 51-200 employees				
The Linkedin Page you select will be associated with your app. Verification can be done by a Page Admin. Learn more Privacy policy URL	-			
App logo* This is the logo displayed to users when they authorize with your app				
Upload a logo				
Legal agreement When you develop on our platform, you are agreeing to be bound by our API Terms of Use.				
✓ I have read and agree to these terms				
	[Cancel	Create	арр

- 4. Once the App has been created, go to the Auth tab.
- 5. Click the pencil button to add Redirect URLs.
- 6. Copy the Client ID, Client Secret and Redirect URLs value and store them securely.

in DEVELOPERS My Apps 🔻 Products	
Client ID: Created: 11 Jun, 2020	
Settings Auth Products Analytics Team members	
Application credentials	
Authentication keys Client ID:	
Client Secret:	
OAuth 2.0 settings	
Authorized redirect URLs for your app https://www.redpointglobal.com/	

7. Go to the Product tab and select Share on LinkedIn and Sign In with LinkedIn.

Settings	Auth Products Analytics Team members	
roducts		
dditional av	ailable products	
١	Marketing Developer Platform	
	Build marketing experiences to reach the right audiences View docs	<u>Review in progress</u>
	Share on LinkedIn	
	Amplify your content by sharing it on LinkedIn	Select
	View docs 🖸	
	Sign In with LinkedIn	
	Lat users easily sign in with their professional identity	Select
3.3 Twitter

This section describes how to configure and create a Twitter app for use with RPI. Please follow the steps below:

1. In a browser, go to https://twitter.com/ and click Sign up.



2. Type your Name and Phone or Use email instead, and click Next.

C 0/50
0/50
0/50

3. Click Next at Customize your experience.



4. Click Sign up to create your account.

Create your account
=
-
By signing up, you agree to the Terms of Service and Privacy Policy, including Cookie Use. Others will be able to find you by email or phone number when provided • Privacy Options
Sign up

5. Check your Email to verify your account, copy the code, paste it into the code field on your Twitter page and click Next.

÷	y	Next
We sent you a cod	e	
Enter it below to verify	@gmail.com.	
Verification code		
Didn't receive email?		

6. Enter a Password and click Next.



3.3.1 Creating a New Twitter App

- 1. Visit the Twitter Developer site: <u>https://developer.twitter.com/</u>. Sign in with your Twitter account.
- 2. Click Apps from the top user menu and click the Create an app button to create a new application.



3. Fill out the required fields and click Create.

tanding apps	App details
app?	The following app details will be visible to app users and are required to repeate the API trees previed to authenticate Tabiter developer products
	Ann mame (conviced)
app?	Maximum characters 32
s require an API key? 🤍	
	Share a description of your app. This description will be visible to users so this is a
	good place to tell them what your app does.
	Floors be detailed.
	Between 10 and 200 characters
	Website URL (required)
	https://
	Allow this application to be used to sign in with Twitter Learn more
	Enable Sign in with Twitter
	Callback URLs
	OAuth 1.Da applications should specify their oauth_callback URL on the request token
	step, which must match the URLs provided hare. To restrict your application from using callbacks, leave these blank.
	https:// or scheme://
	+ Add another
	Terms of Service URL
	https://
	Privacy policy URL
	https://
	Organization name
	Organization website URI
	https://
	Tell us now this app will be used (required) This field is only visible to Twitter employees. Hele us understand how your ann will be
	used. What will it enable you and your customers to do?
	Please be detailed.

4. Click the Create button.



5. Once the Application has been created, click the Keys and tokens section. Take note of your API key and API secret key.

App details	Keys and tokens	Permissions	
	Keys and tokens Keys, secret keys and	access tokens management.	
	Consumer API keys		Regenerate
	API key: API secret key:		-
	Access token & acc We only show your ac regenerate them at a	ress token secret ccess token and secret when you first generate it in order to make your ny time, which will invalidate your existing tokens.	Revoke Regenerate account more secure. You can revoke or
	Access token: Access token so Access level:	x0000000000000000000000000000000000000	Last generated: Mar 10, 2020

3.4 YouTube

- 1. Log into the Google account used for your YouTube Channel.
- 2. Go to https://console.developers.google.com.
- 3. Click "Select a project" then click the "NEW PROJECT" button to create a new project.

Google APIs : My Proje	ect 👻	Q , Si	earch for APIs and Services	*	11 O A	: 💮
RPI APIs & Services	APIs & Services + ENABL	E APIS AND SERVICES				
Dashboard					1 hour 6 hours 12 hours 1 day 2 days 4 days 7 days 14 days	30 days
E Library	Traffic	±	Errors	±	Median latency	±
o⊷ Credentials		Select a project		NEW PROJECT		0
IF OAuth consent screen	1 I I I I					8
Domain verification					No data is available for the selected time frame.	6
#o Page usage agreements		RECENT ALL				4
		Name	10			
	Apr 20 May 03	May 🗸 🐓 My Project 😧	white-site-102805		Apr 26 May 03 May 10 May 17	
				-		
	T Fiter					0
	Name	Reque				
	YouTube Data API v3	9				
	BigQuery AP1					
	BigQuery API					
	BigQuery Storage API					
	Cloud Logging API					
	Cloud SQL					
	Cloud Storage					
	Google Cloud Storage JSON AP1			CANCEL OPEN		
	YouTube Analytics API					
				_		
		Some Terms of t	Service have been updated. REVIEW UPDAT	ES X		

4. Enter the Project name (recommend "RPI" in the name), and click "Create".



5. You will be redirected to the Dashboard page for your new project. Select the Library link to navigate to the Google APIs Library page.

Google APIs : M	ty Project 👻		Q. Search for APIs and Ser	vices 👻		12	0 A :
Navigation menu ary							
7 · m	Welcome to the API Lib The API Library has documentation, li	rary nks, and a smart search experience.	L'.			P	•
•	Q Search for APIs & Services						
		· •			•	· · · ·	
Filter by	Maps					VIEW ALL (15)	
VISIBILITY Public (284) Private (2) CATEGORY Advertising (12) Analytics (3)	Maps SDK for Android Google Maps for your native Android app.	Agos SDK for IOS Google Maps for your native IOS app.	Maps JavaScript API Google Maps for your website	Places API Ocogle Get detailed information about 100 million places	Roads API Google Snap-to-road functionality to accurately trace GPS breadcrumbs.	Circetions API Google Directions between multiple locations.	
Big data (15) Blog & CMS (1)	Machine learning					VIEW ALL (8)	
Compute (6) CRM (1) Databases (4) Developer stacks (3) Developer tools (15) Email (1) Financial services (1) Firebase (5)	Dialogflow API Doogle Builds conversational interfaces	Cloud Vision API Google Image Content Analysis	Cloud Natural Language API Ocogie Provide natural Language understanding technologies, such as sentiment analysis, entity	Cloud Speech to-Text API Ocogle Speech recognition	Cloud Translation API Ocogie Integrates text translation into your website or application.	A Platform Training & Prediction API Google An API to enable creating and using machine learning models.	
Google Cloud APIs (25) G Suite (19)	G Suite					VIEW ALL (19)	
Healthcare (3) Machine learning (8) Mans (15)	4	31	Μ			0	

6. Select "YouTube Analytics API" and click Enable.

=	Google APIs 🔹 My First	Project 👻	Q Search for APIs and Services	0 4	i I 😩
÷	API Library				
		YouTube Analytics API Google Retrieves your YouTube Analytics data.			
	Type Artis & services Last updated 12/10/19, B-83 AM Category Yourtube Service name youtubeanalytics.googleapi s.com	Overview Retirenes your You'habe Analytics data. About Google Ocogies massions is to opperce the world's plotmation and make it universally accessible are massingful role in the daily lives of billions of people. Tutorale and documentation Learn more 12 Maintenance & support Learn more 12	di ueful. Through 6. Google plays a		
		Terms of service By using this product you agree to the terms and conditions of the following license(s): YouT More solutions to explore	Non Data ATVIS 2		
=	Google APIs S My Pro	ject ✔ a	Search for APIs and Services		
÷	ADLL ibrary			11 O A	: 🚯
	APILIDIAIY			11 O A	: 🕀
		YouTube Analytics API Google Retirves your YouTube Analytics data.		12 0 4	: 🏵
	Type APR Location Type APR & services Location L	YouTube Analytics API Gooje Retires your YuuTube Analytics data. MANAGE TY THE API CO & Art maked TY THE API CO & Art maked Overview Retires your YuuTube Analytics data. Abodt Google Coopein ression to copiest the word's information and make turiversally accessible modersta and platmatic lise stark. May, and Alcohed, Google Plag, Chemer and YouTub meangdur due in the skip lives of billions of people. Turbrists and Alcohed The Stark Stark Stark Alcohed, Google Plag, Chemer and YouTub meangdur due in the skip lives of billions of people. Turbrists and Alcohed The Stark Sta	nd sardd. Through 6, diosgla plays a		

7. When complete, click "Credentials" in the left-hand menu. Click "Add Credentials" and select OAuth 2.0 client ID from the dropdown.

APIs & Services	Project 👻		Q, Search f	for APIs and Services	÷		0 4	
YouTube Analytics API	Overview DISA	ABLE API						
Overview								
Metrics	 To use this API, you 	J may need credentials. Click 'Create crede	intials' to get started.				REATE CRED	ENTIALS
Quotas	≣≣ Deta	ails	<u></u>	Traffic by response code				
Credentials	Name	e lube Analytics API		Request/sec (2 hr average)				
	By Good	nja				1	•	
	Servi	ice name				0.	*	
	Overv	.beanalytics.googleapis.com		4	No data is available for the selected time frame.	0.		
	Retrie	eves your YouTube Analytics data.				0.	n	
	Enabl	led		Tue 05 Thu 07 Sat 09 Mon 11 Wed 13	Fil 15 Sun 17 Tue 19 Thu 21 Sat 23 Mon 25	Ned 27 Fri 29 Jun 01 0		
	Tuto	orials and documentation						
	Learn	a more	\rightarrow	View metrics				
	Try in	1 API Explorer					_	
	Maint	tenance & support						
JOOGIE APIS I My Firs	t Project 👻		Q Sear	ch for APIs and Services	•			*
YouTube Analytics API	Credentials +	CREATE CREDENTIALS Transmission	E					
Overview	Credentials compa	atible with this API						
Metrics	To view all credentials or cre	ate new credentials visit Credentials in AF	Pls & Services					
Quotas	A Remember to co	infigure the OAuth consent screen with inf	formation about your application.			0	NFIGURE CC	INSENT SCF
Credentials								
	OAuth 2.0 Client	IDs						
	Name No Oduth clients to displa		Creation date 🕹		Type	Client ID		
	No civicit cirenta to displa	9						
	Service Accounts	S					Manag	e service ac
	Email	Name	Usage with this service (last 30 d	iays) 🚱 🕹	Usage with all services (last 30 days)	0		
	his section sector is do	spray						
	No service accounts to di							
	No service accounts to di							
	No service accounts to di							
	No service accounts to de							
Google APis 🔹 Myr	No service accounts to di		c	Search for APIs and Services	•			
Google APIs 💈 My F APIs & Bervices	No service accounts to di		c	 Search for APIs and Services 	•			
Google APIs SMy F APIs & Services YouTube Analytics A	No service accounts to do inst Project	+ CREATE CREDENTIALS	C DELETE	Search for APIs and Services	•			
Google APIs • My F APIs & Services YouTube Analytics A overview	No service accounts to do inst Project PI Credentials Credentials cor	+ CREATE CREDENTIALS	DELETE	 Search for APIs and Services 	•			
Google APIs S My F Anta Services YouTube Analytics A Overview Metrics	No service accounts to de irist Project PI Credentials Credentials con To view all credentials	+ CREATE CREDENTIALS CAuth client ID Request user consent so your app Service account	C DELETE p can access the user's data	 Search for APIs and Services 	•			
Google APIs S My F APIs Services YouTube Analytics A overview Metrics Quotas	No service accounts to de inst Project PI Credentials Credentials cor To view all credentials	CREATE CREDENTIALS Adulth client ID Requests user contents so your ago Service account Enables server to server, top level	DELETE p can access the user's data authentication using rebot account	Search for APIs and Services	•			ços
Google APIs > My F Arris & Services YouTube Analytics A Overview Metrics Oversites Contests	Instervice accounts to de Inst Project PI Credentials Credentials Credentials Remember	CREATE CREDENTIALS Outbildent ID Requests user consent so your applied Service account Evables server to server, top-ined Help me choose	C DELETE p can access the user's data authentication using robot accou	Search for APIs and Services	•			COL
Google APIs > wy F Anis & Services YouTube Analytics A Overview Metrics Quotes Credentials	Inst Project	CREATE CREDENTIALS Duth client ID Acute client ID Requests user consent so your app Service account Service account Service account Heip me choose Asis a five quantitions to help you ent ID IS	DELETE p can access the user's data authentication using robot accou- lecide which type of credential to	Search for APIs and Services	•			COL
Socgle APIs P My F APIs & Services YouTube Analytics A Vourtube Analytics A Wetrics Quotes Credentials	No service accounts to de first Project PI Credentials Credent	CREATE CREDENTIALS Dutch client ID Requests user consent so your app Service account Endeds server to server, gap interd Help me choose Asis a few questions to help you dent IDS	DELETE p can access the user's data authentication using robot accou- lecide which type of credential to Creation gate J	Search for APIs and Services		cii	# ID	COI
Google APIs IP My F APIs & Services YouTube Analytics A overview Metrics Overses Credentisks	Inst Project ← Pri Credentials Credential	CREATE CREDENTIALS Adubt client ID Requests user consent so your app Service account Enclose services cappelered Help me choose Asha s fere quastions to help your de this set of the service service account Tos taplay	DELETE p can access the user's data authentication using robot accou- feedie which type of credential to Creation date	Search for APIs and Services	Ţype	Cir	nt ID	COI
Google APIs > My F APIs & Senices YouTube Analytics A Overview Metrics Ountes Oredentials	No service accounts to de Tirst Project ← PI Credentials Credentials cor To view all credentials A Remember OAuth 2.0 Clift No Guith clients to C	CREATE CREDENTIALS Adubt client ID Requests user consent to your app Service account Enclose service rower, top level Help me choose Asta a few questions to help you d ent IDs splay	DELETE D CAN access the user's data authentication using robot accou- feede which type of credential to Creation date	 Search for APIs and Services unts 	Туря	Cir	nt ID	COL
Google APIs > My F APIs & Services Overview Metrics Overview Credentate	No service accounts to de inst Project PI Credentials Credential	ORLATE CREDENTIALS OLAM client ID Reparts use contents to your applied Service account Enables server to arrive, top level Help me choose Akta a five quantitions to help you dent IDS service	DELETE D CAN access the user's data authentication using robot accou- fecide which type of credential to Creation date	 Search for APIs and Services unts use 	Type	ci	nt ID	COI
Google APIs I My F APIs & Services YouTube Analytics A Overview Metrics Overlas Credentials	Inst Project	CREATE CREDENTIALS CREATE CREDENTIALS Output client ID Requests user connect so your ago Requests user connect so your ago Requests after connect so point Explore sorrants on the you CREATE CREDENTIALS Server account of the you CREATE CREDENTIALS Interest Todicate	DELETE p can access the user's data authentication using rebot accou- fecide which type of credential to Creation date ↓ Usage with this servic	3. Search for APIs and Services	Type Usage with all serv	Ciu ces (Last 30 days) 🚱	nt ID	CON

8. On the next screen, click "Configure Consent Screen".

Google APIs : My Proje	ct 85117 👻	Q Search for APIs and Services	¥	0 A I 😩
APIs & Services YouTube Analytics API	Credentials + CREATE CREDENTIALS			
Uterview Overview	Credentials compatible with this API			
益 Metrics	To view all credentials or create new credentials visit Credentials in APIs & Services			
🖬 Quotas	A Remember to configure the OAuth consent screen with information about	your application.		CONFIGURE CONSENT SCREEN
o- Credentials				
	OAuth 2.0 Client IDs			
	Name Creation date	· ↓	Туре	Client ID
	No OAuth clients to display			
	Service Accounts			Manage service accounts
	Email Name Usage with 1	this service (last 30 days) 🔞 🤟	Usage with all services (last 30 days)	
	No service accounts to display			
Google APIs S My Pro	ect 85117 👻	Q Search for APIs and Services	•	0 A I 🗧
RPI APIs & Services	OAuth consent screen			
Dashboard	Choose how you want to configure and register your app, including your			
III Library	target users. You can only associate one app with your project.			
Ov Credentials	User Type			
III OAuth concert screen	O Internal 😨			
	Only available to users within your organization. You will not need to			
E Domain verification	submit your app for verification.			
Fo Page usage agreements	U External W			
	Available to any user with a Google Account.			
	CREATE			

9. Enter "RPI" in the Product Name field (email address will be populated with your Google log-in). Click Save.

Google APIs : My Pri	oject 85117 👻	Q. Search for APIs and Services	•	0 4	. 1	
Navigation menu Services	OAuth consent screen					
Denthourd Denthourd Denthourd Denthourd Denthourd Denthourd Denthourd Dentain verification Page usage agreements	OAUD consent screen consent screen and product in the payer consent screen and product consent screen and product consent screen and product in the payer consent screen and product in the payer screen and product in the	requesting access to their data and what sind of data giver assing the access: Dath verification The production work is be verified by booget the production work is be verified by booget production of the production of the production of the second second second second second second 1. You go access a second second second second 1. You go access a second second second second 1. You go access a second second second second 1. You have made charge parameter of authorized 1. You have made charge to a periodicity-welled 1. You have made to a periodicity of the				
a	Interest and the formation of the second point and point of the second point of the	where buildings, taken more a load to buildings of the load to at 0 data. Carl color and pool to haid about out 0 data. Carl color and the load to at 0 data. Carl color and the load to at 0 data. Carl color and the load to at 0 data. Carl color and the load to at 0 data. Carl color and the load to at 0 data. Carl color and the load to at 0 data. Carl color and the load to at 0 data. Carl color and to at 0 data. Carl color and to at 0 data. Carl color and to at 0 data. Carl color at				

Google APIs : My Proje	eet 85117 👻	Q Search for APIs and Services	0 4	:	
RPI APIs & Services	OAuth consent screen				
 Dashboard Library 					Î
O+ Credentials	Verification Status				- 1
IF OAuth consent screen	Not published				
Domain verification					
II Page usage agreements	User type				
	External Ø				
	MAKEINTERNAL				
	OAuth rate limits				
	Your user cap 🔞				
	The user cap limits the number of users that can grant permission to your app when negating unapproved smalllive or restricted scopes. The user cap applies over the entite infertion of the project, and it cannot be need or changed. Verified apps will still display the user cap on this page, but the user cap does not apply if you are requesting only approved sensitive or the state of the state of the state of the project and the state of t				

10. Go to Credentials then click Add Credentials.

≡	Google APIs 💲 My Proje	ct 85117 👻		Q Search for APIs and Se	rvices	•		Ø A I 😩
API	APIs & Services	Credentials + CREATE	CREDENTIALS TO DELETE					
	Dashboard	Create credentials to access your enal	bled APIs. Learn more					
***	Library	API Kevs						
04	Credentials	□ Name	Creation date 👃	Restrictions	Key	Usage with all services (last 30 days)		
52	OAuth consent screen	No API keys to display						
	Domain verification							
=0	Page usage agreements	OAuth 2.0 Client IDs						
		Name Name	Creation da	ite ↓		Type	Client ID	
		No OAuth clients to display						
		Service Accounts						Manage service accounts
		Email	Name 🕇	Usage with all se	rvíces (last 30 days) 🔞			
		No service accounts to display						

11. Select OAuth Client ID.

API	APIs & Services	Credentials	+ CREATE CREDENTIALS		
к <u>ф</u> н	Dashboard	Create credentials to ac	API key Identifies your project using a simple API key to check quota and access		
ш	Library	API Keys	OAuth client ID Requests user consent so your app can access the user's data		
•	Credentials	Name	Service account	ons Key	Usage with all services (last 30 days)
B2	OAuth consent screen	No API keys to displa	Enables server-to-server, app-level authentication using robot accounts		
	Domain verification	OAuth 2.0 Clie	Help me choose Asks a few questions to help you decide which type of credential to use		
-0	Fage usage agreements	Name	Creation date 🗸	-	Type
		No OAuth clients to di	isplay		
		Service Accou	ints		
		Email	Name 个	Usage with all services (last 30 days)	
		No service accounts t	to display		

12. Select Web Application from the application type dropdown then click create. The next screen displays the client ID and client secret you will need to enter into RPI. Copy and paste these into a document.



- 13. Go to RPI > Configuration > Channel (Find the YouTube channel that you wish to update.
- 14. Enter the Client ID and Client secret in the appropriate fields and http://localhost/authorizefor the Redirect URI.

≡	Google APIs 💲 My Proje	ect 85117 👻	٩	Search for APIs and Services
API	APIs & Services	← Create OAuth client ID		
	Dashboard Library	A client ID is used to identify a single app to Google's OAuth servers. If your app runs on multiple platforms, each will need its own client ID. See <u>Setting up OAuth 2.0</u> for more information.		
04	Credentials	Application type *		
:2	OAuth consent screen	Learn more about OAuth client types		
	Domain verification	Name * Web client 1		
Ξŋ	Page usage agreements	The name of your OAuth 2.0 client. This name is only used to identify the client in the console and will not be shown to end users. The domains of the URIs you add below will be automatically added to your <u>OAuth consent screen</u> as <u>authorized domains</u> . Authorized JavaScript origins The domains of the URIs gover a submitted domains. Authorized redirect URIs The domains of the URIs gover a second domains are with requests from a web server. Authorized redirect URIs CREATE CANCEL		

😑 Google APIs 💲	dy Project 85117 ▼	Q Search for APIs and Services	¥	0 A I 😩
RPI APIs & Services	Credentials + CREATE CREDENTIALS			
Dashboard	Create credentials to access your enabled APIs. Learn more			
H Library	API Keys			
o⊷ Credentials	□ Name Creation date ↓		Usage with all services (last 30 days)	
IF OAuth consent screen	No API keys to display	OAuth client created		
Domain verification	OAuth 2.0 Client IDs	The client ID and secret can always be accessed from Credentials in APIs &		
Fig. Page usage agreement	OAuth 2.0 Clent IDs Name Creation caller 4 Web clent 1 Jun 2, 2000 Service Accounts Envice Maner 1 Into service accounds to display	Envice Authin is imited to 100 genetice scope loging until the Outhin Content cover is writed. This may require a writection process that can be averal days. Proc Conter 0 Soc22446-63genetic-requestors 1_50es7upletfgateCoff85.eppe.aptr C Your Conter Scott Ket_vr2fr1actovEAdGat/VVVV C	Chent D 53023984183-gonik D	✓ ■ ★
ci		QAuth client enoted		

3.5 Google Ads Customer Match

The configuration described in this section will cover the setup for a Google Ads account and accessing the Customer Match lists.

Note: A Google Cloud Platform (GCP) account is required to manage authentication for the Google Ads APIs.

3.5.1 Provision a Project within GCP

1. Log into GCP and create a new Project (if necessary). Enter the relevant details click the CREATE button:

New Project	
Project name * RPI-Google-Customer-Match	0
Project ID: opportune-cairn-347217. It cannot be changed later. EDIT	
Organization *	- 0
Select an organization to attach it to a project. This selection can't be changed	later.
	BROWSE
Parent organization or folder	
CREATE CANCEL	

2. Once the Project has been created, click on the Project settings and note the Project ID, as that will be required for the channel configuration in RPI.

PI-Google-	Customer-Match	•	
Settings	→ MOVE	T SHUT DOWN	
Project name * - RPI-Google-Cu	stomer-Match		SAVE
Project ID oppor			
Project number: 8129			

3.5.2 Create API and OAuth Credentials

1. On the left navigation panel, click on "APIs & Services" and select "Credentials":

	Google Cloud Platforr	n a	RPI-Google-Customer-N	latch 👻
	Home	>	ettings 💽 MC	IVE 👕 SHUT DOWN
	View all products		Project name * RPI-Google-Customer-Matc	h
PINNE Pin yo	ED ur top products here		Project ID DĮ	
Ŧ	Pins appear here 🛛 🖗	×	Project number:	
MORE	PRODUCTS 🔨			
	Marketplace		ocation	
	Billing		ŧ	
API	APIs & Services	>	Enabled APIs & services	су
Ť	Support	>	Library	es to enable Access Transparency for t
θ	IAM & Admin	>	Credentials	
۲	Getting started		Domain verification	
f.	Compliance		Page usage agreements	

2. Click on the CREATE CREDENTIALS button and choose "API key"



3. Copy the API key as that will be required for the channel configuration in RPI:



4. Click the CREATE CREDENTIALS button and choose "OAuth client ID":

≡	Google Cloud Platform	PI-Google-Custom	er-Match 🔻	
API	APIs & Services	Credentials	+ CREATE CREDENTIALS	
4 .	Enabled APIs & services	Create credentials to ac	API key Identifies your project using a simple API key to check quota and acces	s
Ш	Library	A Remember t	OAuth client ID	
0+	Credentials		Requests user consent so your app can access the user's data	
12	OAuth consent screen	API Keys	Enables server-to-server, app-level authentication using robot accounts	
	Domain verification	Name	Help me choose	n date 🔸
≡¢	Page usage agreements	API key 1	Asks a few questions to help you decide which type of credential to use	2022
		OAuth 2.0 Client II	Ds	
		Name		Creation date
		No OAuth clients to di	splay	

NOTE: If the Project is brand new, GCP will require a configured consent screen before proceeding with this next step.

5. Select "Web application" as the Application Type:

÷	Create OAuth client ID
A c mu inf	ient ID is used to identify a single app to Google's OAuth servers. If your app runs on tiple platforms, each will need its own client ID. See <u>Setting up OAuth 2.0</u> for more rmation. <u>Learn more</u> about OAuth client types.
۲	oplication type *
ų	Web application
ſ	Android
	Chrome app
	iOS
	TVs and Limited Input devices
	Desktop app

6. In the proceeding screen, enter a name for the OAuth client as well as an Authorized redirect URI, which will be used to get the token. The same URI will be entered in the channel configuration, within RPI. Hit the CREATE button once all the information has been configured:

 Create OAuth client ID 	
A client ID is used to identify a single app to Google's OAuth servers. If your app runs on multiple platforms, each will need its own client ID. See <u>Setting up OAuth 2.0</u> for more information. <u>Learn more</u> about OAuth client types. Application type * Web application	
RPI Customer Match]
The name of your OAuth 2.0 client. This name is only used to identify the client in the console and will not be shown to end users.	
The domains of the URIs you add below will be automatically added to your <u>OAuth consent screen</u> as <u>authorized domains</u> .	
Authorized JavaScript origins 🛛	
For use with requests from a browser	

+ ADD URI

Authorized redirect URIs @

For use with requests from a web server

(URIs 1 *	ī
C	+ ADD URI	

Note: It may take 5 minutes to a few hours for settings to take effect

CREATE CANCEL

 Upon clicking the CREATE button in step 6, the Client ID and Client Secret will be shown on the proceeding screen. Copy both values as they will be required for the channel configuration in RPI:

The client ID and secret can always be accessed from Cre Services	edentials in APIs &
• OAuth access is restricted to users within you unless the <u>OAuth consent screen</u> is published	ır organization I and verified
Your Client ID 37936499514	: 6
Your Client Secret	Ē

3.5.3 Create Google Ads Account

1. Visit https://ads.google.com/ and click on the "Start now" button on the top left:



2. Sign in or create a new Google account:

	ooogie			
	Sign in			
to contir	iue to Goog	le Ads		
C Email or phone				h
Forgot email?				
Not your computer? Use Learn more	Guest mode	to sign ir	n privately.	
Not your computer? Use Learn more Create account	Guest mode	to sign ir	n privately. Next	

3. Create a New Manager Account (if necessary) by going to Accounts > Performance and then clicking the plus button to display the option for creating a new manager account.

A Performance - RPI QA	- Google A × +	9	207000	2208:	- 0 8	C an at a au	a table me		1-2		b -		
← → C ■ ads A Google A	Ads RPIQA	&eeuid=>24064647&u=>840370103&uscid=71318	507808_C=2988382	220otauthuser	r=0&subid=0	C II. SEARCH REPO	RTS TOOLS &	C C	? Ļ ⁰	dan.sa	0	*	
Overview 🏫	Performance								Custom	Jul 9 – Aug 5	5, 2021	- <	>
Accounts Performance Budgets Notifications Campaigns Settings Change history	2 1 0 Life year X + Create new manager account + Create new account	View all ADD FILTER Direct manager RPIQA (This manager) 91	Account type Google Ads	Clicks	Impr. 0	CTR -	Avg. CPC –	Clicks	SEGMENT COLUM	CH CH	E] EXPAND	Aug 5, 20	з <u>г</u> 221
	+ Link existing account 🦽			0	0	-	-	\$0.00	0.00	0.00%			
												1-	1 of 1

3.5.4 Enable Customer Match Feature

Important – once the account is created, or if an existing account is being used, reach out to the Google support and have them **enable the Customer Match functionality** on the account. This can only be enabled on production accounts.

3.5.5 Locating Developer Token

The Developer Token field in the Google Ads Customer Match channel configuration can be found on the Google Ads homepage.

- 1. After logging in, click "Tools & Settings" from the top menu.
- 2. Then click "API Center" under the Setup category.

🔥 Google /	Ads RPIQA	•			Q II Search reports	C ?	dan D
Overview 🔶	Overview	E PLANNING	I SHARED LIBRARY	BULK ACTIONS	MEASUREMENT	SETUP	BILLING
 Accounts 		Performance Planner	Audience manager	All bulk actions	Conversions	Account map	Billing setups
Campaigns		Keyword Planner	Bid strategies	Rules	Google Analytics	Access and security	Payments profiles
 Settings 		Reach Planner	Negative keyword lists	Scripts	Attribution	Linked accounts	Invoices
Change history		App advertising hub NEW	Placement exclusion lists	Uploads		Preferences	Promotions
						API Center	Identity verification
						Google Merchant Center	

3. Copy the Developer Token to the Google Ads Customer Match channel configuration.

API Access		
Developer token		~
Access level	Basic Access	~

3.5.6 Access Audience Lists

- 1. To access your audience lists, click "Tools & Settings" from the top menu.
- 2. Click "Audience Manager" under the Shared Library category.

🔨 Google Ads RPI QA 🛛 🗸					Q 11. SEARCH REPORTS	C ?	nathan N
Overview 🔒	Overvi	PLANNING	B SHARED LIBRARY	BULK ACTIONS	MEASUREMENT	SETUP	BILLING >
 Accounts 		Performance Planner	Audience manager	All bulk actions	Conversions	Account map	Billing setups
Campaigns		Keyword Planner	Bid strategies	Rules	Google Analytics	Access and security	Payments profiles
 Settings 		Reach Planner	Negative keyword lists	Scripts	Attribution	Linked accounts	Invoices
Change history		App advertising hub NEW	Placement exclusion lists	Uploads		Preferences	Promotions
						API Center	Identity verification
						Google Merchant Center	

3. Click an audience list name to see its respective details.

Audience lists	÷	Y ADD FILTER					Enabled au	diences 👻	Q = II	I ± C
Audience insights		Audience name	Туре	Membership status	Size: Search	Size: YouTube	Size: Display	Size: Gmail campaign	Match rate	Creation date \downarrow
Audience sources		Customer Match list# 131778d9 A list of customers that originated from email and physical addresses	Customer list Customer contact information	Open	<100 Too small to serve	<100 Too small to serve	<100 Too small to serve	<100 Too small to serve	7	Jul 17, 2021
		Customer Match list# da482f90 A list of customers that originated from email and physical addresses	Customer list Customer contact information	Open	<100 Too small to serve	<100 Too small to serve	<100 Too small to serve	<100 Too small to serve	ä	Jul 17, 2021
		Customer Match list# 7961efc8 A list of customers that originated from email and physical addresses	Customer list Customer contact information	Open	<100 Too small to serve	<100 Too small to serve	<100 Too small to serve	<100 Too smail to serve		Jul 17, 2021
		Customer Match list# daa2988e A list of customers that originated from email and physical addresses	Customer list Customer contact information	Open	<100 Too small to serve	<100 Too small to serve	<100 Too small to serve	<100 Too small to serve	Ħ	Jul 17, 2021
		Customer Match list# d985d756 A list of customers that originated from email and physical addresses	Customer list Customer contact information	Open	<100 Too small to serve	<100 Too small to serve	<100 Too small to serve	<100 Too small to serve	Ť	Jul 9, 2021
		Customer Match list# e084c782 A list of customers that originated from email and physical addresses	Customer list Customer contact information	Open	<100 Too small to serve	<100 Too small to serve	<100 Too small to serve	<100 Too small to serve	ž	Jul 9, 2021

Audience lists > Customer Match list# 131778d9 ×

Customer list Customer Match A list of customers that	Customer list Customer Match list# 131778d9 A list of customers that originated from email and physical addresses Membershin: Open (30 days) - Creation date: Jul 17, 2021 - List ID: 6770471932					
Membership: Open (50 da)	ys) Creation date: Jul 17, 20	121 LISUD: 0770471932				
List members	List members Customers based on email, phone, and/or mailing address uploads (1 upload) 🗇 🗸					^
Date	File name	Operation	Match rate	Source	Status	
Jul 17, 2021 9:45:59 PM	uploaded_using_api	Add		Google Ads API	Success	
				Show rows: 10 💌	1 - 1 of 1	< >
Eligibility	✓ Search	✓ YouTube ✓ Displ	ay 🗸 Gmail + 4	more		~
Size: Search ▼ Siz 0 0	ze: YouTube 💌 Size: Di	Size: Gmail	<u>*</u>			0 0

4. Additional information is displayed as more records are processed within the audience list (e.g., Match rate.)

Match rate	0% of peo 0% is lo	ple in your custome	er list were identified	for targeting purposes.	Match rate is the percentage of people in your customer list that Google Ads can identify for targeting purposes.	^
	0%	29%	62%	100%		
	improve y encrypting	our match rate, mai g your list properly.	ke sure you're format Learn more	ting and		

Per Google, it may take up to 24 hours for the customer match to complete.

3.6 Yahoo! Japan – Data Onboarding

3.6.1 Create Yahoo! Japan Account

This section shows how to acquire and manage a Yahoo! Japan Business account. You may skip steps #1-2 if a Yahoo! Japan Business account has already been provisioned.

- 1. To provision a new Yahoo! Japan Business account, please navigate to <u>https://support.yahoo-net.jp/PccBizmanager/s/</u>.
- 2. In the Help/Contact page. Find "Registration or change of payment method". Click "Show all" and follow the steps provided.



3.6.2 Create oAuth Application

- 3. Login to your Yahoo! Japan Business account by navigating <u>https://login.bizmanager.yahoo.co.jp/</u> in your web browser.
- 4. In the login page, provide the Business ID and password.

YAHOO! JAPAN	<u>Yahoo! JAPAN - Yahoo! Business Center - Help</u>			
	日本語 English			
Log in with your Yahoo! JAPAN Business ID				
Yahoo! JAPAN Business ID				
Password				
Keep me logged in				
(Uncheck if on a shared computer)				
Forsot your Yahoo! JAPAN Business ID? Forsot your password?				
Privacy (Japanese) – <u>Terms of Use of Yahoo! JAPAN Business ID</u> – <u>Help/Contact</u> © Yahoo Japan				

5. Upon successful login, click "Yahoo! Ads API Management Console" to create a new oAuth application, which is required to interact with their APIs.

Yahoo! ビジネスセンター JAPAN Yahoo! JAPANhelp				
TOP TOP				
Hi, [
Yahoo! JAPAN Business ID				
Available Tools				
Vahoo! Ads Campaign Management Tool Manager				
Vahoo! Ads <u>Vahoo! Ads API Management Console</u> Tool Management				
Only english supported services or tools are displayed. If you cannot find those services or tools you are currently using, please change the language setting to Japanese at the "Account Information" page.				
Organization Administrator Menu				
Orsanization Manaser Service Usase Information Resistered Account Information Usase Details				
PrivacyTerms <u>of Use of Yahoo! JAPAN Business ID</u> Help <u>/ Contact</u> © Yahoo Japan				

6. Within the "Added applications" tab, click the "Add a new" button and follow the steps provided.



3.6.3 Retrieve oAuth Application Credentials

7. Once the oAuth application has been created, the following application details will need to be noted for Step 8:

Client ID Client secret Redirect URI

YAHOO! A	ds				Yahoo! JAPA	N Business ID: acidic981	l3peer 🗸	
Authorize	d applications	Added applications Test accord	ints					
Added a	Added applications							
Add a new	Add a new							
🛕 The max	ximum number of app	plications have been added.						
App	lication name	Client ID	description	Redirect URI	Client secret	Last updated	\downarrow	
RPI	RPI QA 33bscs/10x10x4c8+170t+4c8+1476150 App for RPI QA https://local.rpha View 2022/01/07 06:54 2022/01/07 06:54 Copy Copy							
	Privacy (in Japanese) - Terms of Use - Master Terms and Conditions - Yahool JAPAN Business ID Terms of Use - Disclaimer - Help							

8. Using the values captured in Step 7, create new Yahoo! Japan channel data connector within Redpoint Interaction and paste the values of Client ID, Client secret and Redirect URI in the channel configuration.

Client ID:	Client ID used to connect to Yahoo! service
Client secret:	Client secret used to connect to Yahoo! service
Redirect URL:	Redirect URL used to connect to Yahoo! service

3.6.4 Retrieve Yahoo! Japan Account Id

9. To retrieve the value of "Account ID", click "Campaign Management Tool". If you have not yet created an Account, please proceed to step #11.

YAHOO! ビジネスセンター	<u>Yahoo! JAPAN</u> help
тор тор	Log out
Hi, 🛛 💼 👘	Account Information
Yahoo! JAPAN Business ID	
Available Tools	
Yahoo! Ads <u>Campaign Management Tool</u>	Tool Manager
Yahoo! Ads <u>Yahoo! Ads API Manasement Console</u>	Tool Manager
Only english supported services or tools are displayed. If you cannot find those services or tools you are currently using, please of Japanese at the "Account Information" page.	change the language setting to
Organization Administrator Menu	
<u> Orxanization Manager</u> <u> Service Usage Information</u> <u> · Registered Account Information</u> <u> · Usage Details</u>	
PrivacyTerms <u>of Use of Yahoot JAPAN Business ID</u> Help <u>/ Contact</u> © Yahoo Japan	

10. In the "Select account" page, you will find the "Account ID" within the Display Ads account.

Y	YAHOO! Ads				
	Select account				
	Search by account name, account ID Q				
	\alpha Filter Account: All				
	Redpoint Global Search Ads 128				
	Redpoint Global Display Ads				

Capture this value for use when creating new Yahoo! Japan channel data connector in RPI.

3.6.5 Create New Yahoo! Japan Ads Account

11. To create a new Yahoo! Ads account, click "Tools" menu on the upper right corner of the main page and click "Accounts".

Yaho busi	oo! JAPAN ness ID	0	Help Help
Billing & payments	Account and access		
Documents for company overall	Accounts	2/04	4/01 10:00
Fund transfer between accounts	Access (account)		
	Access (by Yahoo! JAPAN business ID)		
	Related tools	ownload V	
	Yahoo! JAPAN business manager		
	Yahoo! JAPAN Tag Manager	ays	Average
	Configurable apps		cost (day) *
	Download Campaign Editor	Day	¥ 0

12. Click Display Ads tab and click Create account button. Follow the steps provided within the portal for creating a new account.

YAHO	Ads PAN					
Accounts						
Searc	h Ads	Display Ads	MCC			
+ c	reate account	\sim				
∀ Filter	Delivery se	ettings: All + Add				
Delivery settings	Account name	e	Account	settings	Account Status	Monthly budget

4 CRM Configuration

4.1 Microsoft Dynamics 365 Configuration

4.1.1 Provisioning a Microsoft Dynamics 365 Trial Account

The configuration specified in this section will cover the provisioning of a trial account for Microsoft Dynamics 365. If a trial or full account has already been provisioned, then skip to section 4.1.2

Note: if an existing Microsoft Online account is being used to sign up for a trial Microsoft Dynamics 365 account, then skip steps 1 to 11.

- To create new trial version of Microsoft Online account, navigate to <u>https://signup.microsoft.com/get-started/signup?OfferId=bd569279-37f5-4f5c-99d0-</u> <u>425873bb9a4b&dl=DYN365_ENTERPRISE_PLAN1&Culture=en-</u> <u>us&Country=us&flight=AdminOnCustomization&ali=1&products=bd569279-37f5-4f5c-99d0-</u> <u>425873bb9a4b</u>
- 2. Provide an email address and click Next:



3. Click Setup account to create new account.



4. Provide all required details for the new account and click Next.

You	You've selected Dynamics 365 Customer Engagement Plan Trial			
1	Let's get you started			
2	Tell us about yourself			
	First name Middle name (Optional) Last name			
	Business phone number			
	Company name Company size Select one from below			
	Country or Region			
	United States \checkmark			
	Next			
3	How you'll sign in			
4	Confirmation details			

5. Provide a valid mobile number where to send the verification code.

You've selected Dynamics 365 Customer Engagement Plan Trial				
1	Let's get you started			
2	Tell us about yourse	lf		
	A text or phone call helps us Enter a number that isn't Volf	make sure this is you. 9 or toll free.		
	 Text me 			
	Call me			
	Country code	Phone number		
	(+63) Philippines V	9175978514		
	We don't save this phone nur	nber or use it for any other purpose.		
	Send verification code	Back		
3	How you'll sign in			
4	Confirmation details			

6. Upon receiving the verification code, enter the respective code and click Verify:



7. Once successfully verification, provide all required details for the new credentials, and click Next.

You	've selected	1 C	ynamics 365 Customer Engagement Plan Trial		
1	Let's get you sta	rte	t de la constante de		
2	Tell us about you	urse	lf		
3	How you'll sign	in			
	This username is what domain name is a sugg time with your own cus	you'l Jestic stom	l use to sign in each time you use your apps. The yn. You can change your domain now, or later at any domain.		
	Username		Domain name		
	rpidev	0	rpidev .onmicrosoft.com Save		
	Password		٥		
	Confirm password				
	By selecting Next , you agree to our <u>trial agreement</u> .				
	I understand that Microsoft	may	contact me about my trial.		
	I would like information, other Microsoft product	tips, ts and	and offers about Solutions for Businesses and Organizations, and I services. <u>Privacy Statement</u> .		
	I would like Microsoft to information about their	shar prod	e my information with select partners so I can receive relevant ucts and services. To learn more, view the <u>Privacy Statement</u> .		
	Next				
4	Confirmation de	tail	S		

8. Upon seeing the confirmation details, the trial account is ready to be used:

You've selected Dynamics 365 Customer Engagement Plan Trial				
1	Let's get you started			
2	Tell us about yourself			
3	How you'll sign in			
4	Confirmation details			
	Thanks for signing up for Dynamics 365 Customer Engagement Plan Trial			
	Your username is rpidev@rpidev20			
	We've sent a confirmation email to 1			
	Get Started Manage your subscription			

9. Open the Confirmation email and click the "Start your trial" button:



10. Provide your Microsoft Online account and click the "Next" button:

Sign in	
rpidev	
No account? Create one!	
Can't access your account?	
	Next

- 11. Enter your Microsoft Online password and click the "Next" button again.
- Upon successful login with the Microsoft Online account, use the same email address to provision new Microsoft Dynamics 365 trial account by navigating to: https://trials.dynamics.com/Dynamics365/Signup/

13. In the Marketing section, click Try for free.



14. Enter your Microsoft Online email address and click the "Start your free trial" button.



4.1.2 Configuring Microsoft Dynamics 365

15. Upon signing up for the trial account, or logging into an existing account, retrieve the Microsoft Dynamics server URL by clicking on Settings, located on the bottom left corner:



16. From the Settings page, click the "admin center" link, located at the top of the page:

Settings overview You can manage platform settings in the admin center I Learn more	
Search	

0

s

Settings

17. From the Admin Center default page, copy the value for "Environment URL" and paste it to the "Server URL" textbox in the Microsoft Dynamics CRM channel configuration, within RPI.

The Server URL must be a valid fully qualified URL format e.g., <u>https://< Environment URL</u>:

$\leftarrow \rightarrow $ C		https://admin.powerplatform.microsoft.com/environments/				
III Power Platfor	III Power Platform admin center					
=		🖬 Open environment 🐵 Settings 🗟 Resources 🗸 🚏 Convert to production 🏦 Delete 🛈 History				
A Environments		Environments > Marketing Trial				
🗠 Analytics	\sim					
Resources	~	Details			See all Edit	Access
Help + support		Environment URL	State	Region		Security roles
🔂 Data integration		org6a636b78.crm5.dynamics.com	Ready	Asia Security aroun		See all
Data (preview)		Frequent	Trial (29 days remaining)	Not assigned		See all
Do Policies	~	Organization ID 6b78cbfe-acbb-4cl15-b88b-132a25f20493				Users See all
Admin centers	~					S2S Apps
		Version		Updates		See all
		Database version 9.2.21112.00132		0		Resources
						Dynamics 365 apps
		Recent operation			Full history	Portals
		Type Create	Start time 12/8/2021, 1:28:16 PM	End time 12/8/2021, 1:28:40 PM		Power Apps
		Initiated by jb jb	Status Succeeded			Flows

4.1.3 Enabling OAuth 2.0 for Existing Microsoft Dynamics CRM channels

OAuth 2.0 authentication is enabled by default when provisioning new Microsoft Dynamics CRM. To resolve the error "You are using Ws-Trust authentication which has been deprecated and no longer supported in your environment. Please use OAuth2.0 authentication" on an existing Microsoft Dynamics CRM channel connector, please follow steps below:

- 18. Log in to https://portal.azure.com/ using your Microsoft Online credentials.
- 19. Click Azure Active Directory



20. On Properties tab, click Manage Security defaults

Home > Acme				
Acme Properties				
External Identities	Save X Discard			
Roles and administrators	Tenant properties			
Administrative units	Name *			
Enterprise applications	Acme			
Devices	Country or region			
App registrations	Philippines			
Identity Governance	Location Asia, United States, Europe datacenters			
Application proxy	Notification language			
 Custom security attributes (Preview) 	English V			
🔓 Licenses	Tenant ID 01670f2c-4a9c-44ea-98a3-3e6d2da662e4			
Azure AD Connect	Technical contact			
🐖 Custom domain names	testjbtwo@yahoo.com			
Ø Mobility (MDM and MAM)	Global privacy contact			
🕈 Password reset				
📕 Company branding	Privacy statement URL			
User settings	✓			
Properties				
Security	Access management for Azure resources			
Monitoring	jb jb (rpidev@rpidev2022.onmicrosoft.com) can manage access to all Azure subscriptions and management groups in this tenant. Learn more			
Sign-in logs	Yes No			
Audit logs	Manage Security defaults			

21. In Manage Security default page, toggle "Enable Security defaults" to No. Click Save.

Enable Security defaults $\qquad imes$	÷
Security defaults is a set of basic identity security mechanisms recommended by Microsoft. When enabled, these recommendations will be automatically enforced in your organization. Administrators and users will be better protected from common identity related attacks. Learn more	
Enable Security defaults	
Yes No	
 We'd love to understand why you're disabling Security defaults so we can make improvements. My organization is using Conditional Access My organization is unable to use critical business applications My organization is getting too many MFA challenges Other 	÷ þ
	-
Save	

4.2 Salesforce.com Configuration

This section describes how to create and configure Salesforce.com. Please follow the steps below:

1. In a web browser, navigate to <u>https://developer.salesforce.com/</u> and click Sign Up.



2. Complete the required details and click the Sign me up button.

Name		
Email		
Role		
IT Manager/Exec	rtive	
Company		
Country		
Philippines		
Postal Code		
Username		

- 3. Check your email for a 'verify account' email, and click the link therein.
- 4. Complete the required fields to Change Your Password and click Change Password.

Enter a new password for	
Your password me	ust have at least:
8 characters	
1 letter	
I number	
New Password	
	ଦେନ୍ତୁ
Confirm New Password	
	Matio
Security Question	
 In what city were you 	u born?
* Answer	

- 5. After setup is complete, you will be redirected to a new Salesforce trial.
- 6. To locate the *Security token* please follow the following steps:
 - Go to View profile
 - Click Settings
 - Collapse My Personal Information
 - Click Reset My Security Token
 - Check your Email and copy Security token

٠	Q, Search Setup	🖈 🖬 ? 🌣 🐥 🐻
Q. Quick Find	Reset My Security Token	ap17.salesforce.com Settings Log.Cut
My Personal Information Advanced User Details Approver Settings	Reset Security Token	© ap10 saksforce com
Authentication Settings for External Systems	When you access Salesforce from an IP address that isn't trusted for your company, and you use a desktop client or the API, you need a security token to log in. What's a security token II it's a case-sensitive alphanumeric code that we to your pass also reset.	ap15.salesforce.com
Change My Password	After you revel your taken, you can't use your old taken in API applications and dealtop clients.	DISPLAY DENSITY
Connections		✓ Comfy
Grant Account Login Access	Resist Sociality Tokan	Compact
Language & Time Zone		OPTIONS
Login History Personal Information		Switch to Salesforce Classic () Add Username
Reset My Security Token		
Security Central		
> Display & Layout		
> Email		
> Chatter		
> Calendar & Reminders		
> Desktop Add-Ons		
> Import		

5 Email Service Provider Configuration

5.1 Data Management Email Results Mechanism

The Data Management (RPDM) Email Results Mechanism can be used to retrieve email results for the following Email Service Providers (ESPs):

- CheetahMail
- Salesforce Marketing Cloud
- SendGrid
- Acoustic
- SmartSource

A tailored RPDM project for each ESP can be found in the following deployment files location:

DeploymentFiles\DataManagement Macros\Channel Synch Loads

The project needs to be loaded into an instance of RPDM for the Mechanism to function.

5.2 Amazon Pinpoint Email Configuration

This section describes how to create and configure Amazon Pinpoint Email project in Amazon Web Services (AWS). Assuming you have already an Amazon Web Services account, please follow the steps below.

5.2.1 Creating new Amazon Pinpoint Email project

- 1. Log into your Amazon Web Services management console by navigating to https://console.aws.amazon.com/iam/
- 2. Select IAM User option and provide your Account ID or account alias. Click Next.


3. Provide your IAM username and password. Click Sign in.

aws
Sign in as IAM user
Account ID (12 digits) or account alias
Password
Remember this account
Sign in
Sign in using root user email Forgot password?

4. Once you have logged in successfully, you will be redirected to AWS management console. In the services search box, look for Amazon Pinpoint. Click **Amazon Pinpoint**.

aws Services	Q pinp	×
🧕 Resource Groups & Tag	Services (2) Features (1) Blogs (104) Documentation (1) Events (1)	Search results for 'pinp' Services Amazon Pinpoint Engage Users via Email, SMS, Push & Analytics Route 53 Scalable DNS and Domain Name Registration
		Features Contributor Insights CloudWatch feature

5. If you are using an existing Amazon Pinpoint project, proceed to section 5.2.2.

6. You will now be redirected to Amazon Pinpoint management console. To create a new project, enter the project name and click **Create a project**.

Get started
To get started with Amazon Pinpoint, create a project.
Project name
Create a project

7. In the Configure features page, configure Email. Click **Configure** button.

Configure features Choose a feature to add to your project. You can add more features later.		
Project features		
Messaging channels and response metrics		
Email Send personalized email messages to your customers into Configure	SMS Send SMS text messages from shared or reserved phone numbers. Inte Configure	Push notifications Send push notifications to users of your mobile apps. une Configure
Application analytics		
Mobile app analytics Treck usage metrics for mobile applications. Info	Web app analytics Track usage metrics for web-based applications. Info	
comgure	Comgure	

8. Select *Enable the email channel for this project* option. You may leave other settings as it is. Click **Save** changes.

Identity details	
Before you can use Amazon Pinpoint to send email, you h email address or a domain. When you verify a domain, yo	nave to verify an email identity. An <i>identity</i> can be either an ou can send email from any email address on that domain.
Enable the email channel for this project	
Identity type	
 Email address Verify a single email address. When you verify a new address, we send you an email. You have to click the link in this email to show that you own the address. 	Domain Verify an entire domain. When you verify a new domain, we provide a set of DNS records. You have to add these records to the DNS configuration of the domain.
Use an existing email address	
 Verify a new email address 	
Default sender address	
	Enabled for sending 🔻 🖸
Friendly sender name - optional A user-friendly name that is displayed to customers who receive ye	our email. Info
example: Hello from Business Name!	
Feedback forwarding When you enable this option, Amazon Pinpoint sends bo above. You have to use a method of tracking bounces and to create an Event Stream for bounce and complaint even O on	unce and complaint notifications to the identity you chose d complaints. If you disable feedback forwarding, you have its.
When you enable the email channel for a project, attaches an authorization policy named identity_p identity you chose for this project.	Amazon Pinpoint automatically View policy olicy_pinpoint to the email
	Return to email settings Save

5.2.2 Enabling Amazon Pinpoint Email on existing project

1. To enable Amazon Pinpoint Email on existing Pinpoint project, select your Pinpoint project from the **All projects** list, as shown in the image below.



2. Expand Settings menu from the left pane and click Email.



3. In the Identities tab, click Edit.

Email		
Email set	tings	
0 messages s	sent	
0%	10%	20%
Sending quo You've sent (24 hours.	o ta used) emails (0% of y	our quota) o
Identities	Open and cl	ick tracking
Identity d	letails Edit	:
Channel stat Not enabled	us	

4. In the Edit email page, select *Enable the email channel for this project* option. You may leave other settings as it is. Click Save changes.

Identity details	
Before you can use Amazon Pinpoint to send email, you email address or a domain. When you verify a domain, y	have to verify an email identity. An <i>identity</i> can be eith ou can send email from any email address on that dom
Enable the email channel for this project	
Identity type	
 Email address Verify a single email address. When you verify a new address, we send you an email. You have to click the link in this email to show that you own the address. 	Domain Verify an entire domain. When you verify a new dome we provide a set of DNS records. You have to add the records to the DNS configuration of the domain.
 Use an existing email address 	
 Verify a new email address Default sender address 	
	Enabled for sending V
Friendly sender name - optional A user-friendly name that is displayed to customers who receive y	our email. Info
example: Hello from Business Name!	
Feedback forwarding	
when you enable this option, Amazon Pinpoint sends be above. You have to use a method of tracking bounces an	ounce and comptaint notifications to the identity you c id complaints. If you disable feedback forwarding, you
to create an Event Stream for bounce and complaint eve	ints.
🚺 On	
When you enable the email channel for a project, attaches an authorization policy parted identify.	Amazon Pinpoint automatically View policy
attaches an authorization policy named identity (

5.2.3 Create Pinpoint import Segment ARN role

Please navigate and follow the steps provided the links below.

https://docs.aws.amazon.com/IAM/latest/UserGuide/id_roles_create_for-service.html

https://docs.aws.amazon.com/pinpoint/latest/developerguide/permissions-importsegment.html#permissions-import-segment-trustpolicy

The Pinpoint Segment ARN role name will be used in Redpoint Interaction (RPI) Amazon Pinpoint Email connector. The role must have required permission to access the Amazon S3 bucket folder.

Segment role ARN: Amazon Resource Name (ARN) used to authorize Pinpoint to access Amazon S3 bucket folder

5.2.4 Configure Amazon Kinesis for Event Data Processing

This section describes how to create and configure Amazon Kinesis in Amazon Web Services (AWS). Kinesis will be used to capture an event data for Pinpoint Email (and Pinpoint SMS if applicable). Assuming you have already an Amazon Web Services account, please follow the steps below.

5.2.4.1 Provisioning a new Amazon Kinesis Data Streams

1. In Amazon Kinesis left pane menu, click Data streams.

Amazon Kinesis X	Amazon Kintsis > Data streams
Dashboard	New on-demand mode for Kinesis data streams On-demand mode eliminates the requirement to manually provision and scale your data streams. With on-demand mode, your data streams automatically scale their write capacity of up to 200 MB/second. Learn more 🗹
Data streams Delivery streams Analytics applications	Data streams (1) info Process data in real time Create a Firehose delivery stream Actions ▼ Create data stream Q. Find data streams < 1 > ◎
Resources CloudFormation templates AWS Glue Schema Registry 🗗	Name ▲ Status ▽ Capacity mode ▽ Provisioned shards ▽ Data retention period ▽ Encryption ▽ Consumers with enhanced fan-out ▽

- 2. Click Create data stream to create new data stream.
- 3. Enter the name of the data stream and select Provisioned option.

aws	Services	Q Search for services, features, blogs, docs,	and more	[Alt+S]	
=	Amazon Kines	is $ ightarrow$ Data streams $ ightarrow$ Create data stream			
	Create	data stream 📷			
	create				
	Data stro	eam configuration			
	Data strear	n name			
	Enter nan	ne			
	Acceptable c	haracters are uppercase and lowercase letters, numbe	rs, underscores, hyphens and peri	iods.	
	Data stro	eam capacity Info			
	Capacity m	ode			
	On-d Use th requir dema auton	lemand nis mode when your data stream's throughput rements are unpredictable and variable. With on- nd mode, your data stream's capacity scales natically.	 Provisioned Use provisioned mode throughput requirem provisioned mode, yet 	de when you can reliably estimate tents of your data stream. With our data stream's capacity is fixed.	
	Provisioned The total cap capacity. 1 Minimum: 1,	Provisioned shards The total capacity of a stream is the sum of the capacities of its shards. Enter number of provisioned shards to see total data stream capacity. 1 Shard estimator Minimum: 1, Maximum available: 199, Account quota limit: 200. Request shard quota increase I			
	Total data s Shard capaci emits up to 2	Total data stream capacity Shard capacity is determined by the number of provisioned shards. Each shard ingests up to 1 MiB/second and 1,000 records/second and emits up to 2 MiB/second. If writes and reads exceed capacity, the application will receive throttles.			
	Write cap	acity	Read capacity		
	Maximum		Maximum		
	1 MiB/seco	nd and 1,000 records/second	2 MiB/second		

4. Click Create data stream

The total capacity of a stream is the sum of the capacities of capacity.	its shards. Enter number of prov	visioned shards to see total data stream	
1 Shard estimator]		
Minimum: 1, Maximum available: 199, Account quota limit: 20	00. Request shard quota increas	;e 🔼	
Total data stream capacity Shard capacity is determined by the number of provisioned shards. Each shard ingests up to 1 MiB/second and 1,000 records/second and emits up to 2 MiB/second. If writes and reads exceed capacity, the application will receive throttles.			
Write capacity	Read capacity		
Maximum	Maximum		
1 MiB/second and 1,000 records/second	2 MiB/second		
Provisioned mode has a fixed-throughput private the second sec	cing model. See Kinesis pric	ing for Provisioned mode 🔀	
Data stream settings You can edit the settings after the data stream has been created and is in the active status.			
Setting	Value	Editable after creation	
Capacity mode	Provisioned	⊘ Yes	
Provisioned shards	1	⊘ Yes	
Data retention period	1 day	⊘ Yes	
Server-side encryption	Disabled	⊘ Yes	
Monitoring enhanced metrics	Disabled	⊘ Yes	
Tags		0.4	
-	-	⊘ Yes	
-	-	Ø Yes	

5. In Amazon Kinesis left pane menu, click Delivery streams.

Amazon Kinesis 🛛 🖂	(c) Introducing the new Kinesis Data Finihose console experience We've designed the Kinesis Data Finihose console to make it easier to use. The changes include a new layout for faster access to information. Let us know what you think.	
Dashboard	Amazon Kinesis > Delivery streams	
Data streams Delivery streams Analytics applications	Delivery streams (1) C Create delivery stream Q. Find delivery streams < 1 >	0
▼ Resources What's new 🖸	Name Status V Creation V Data tr V Destination source O pirgoint kinesis-firehone Ø Active May 04, 2 Direct PUT Not enabled Amazon 53 pirgoint datastroam-firehone [2]	~

6. Click Create delivery stream to create new delivery stream.

aws	Services Q Search for services, features, blogs, docs, and more [Alt+S]
=	Amazon Kinesis > Delivery streams > Create delivery stream
	Create a delivery stream Info
	Amazon Kinesis Data Firehose: How it works
	Choose source and destination Specify the source and the destination for your delivery stream. You cannot change the source and destination of your delivery stream once it has been created.
	Source Info
	Amazon Kinesis Data Streams
	Destination Info
	Amazon S3
	Source settings
	Kinesis data stream
	arn:aws:kinesis:ap-southeast-1:656810741044:stream/pinpoint-kinesis-datastr Browse Create 🖸
	Format: arn:aws:kinesis:[Region]:[AccountId]:stream/[StreamName]

- 7. Choose Amazon kinesis Data Streams as your source and choose Amazon S3 as your destination.
- 8. In the Source settings, browse and choose the data stream you have previously created.

Choose Kinęsis data stream		×
Kinesis data streams (1/1) Q. <i>Find Kinesis</i> data streams		(1)
Name 🖸	⊽ Status	⊽
o pinpoint-kinesis-datastream	⊘ Active	
		Cancel Choose

9. Enter the name of the delivery stream and leave other default options.

aws	Services Q Search for services, features, blogs, docs, and more [Alt+S]							
=	Delivery stream name							
	Delivery stream name							
	pinpoint-kinesis-firehose							
	Acceptable characters are uppercase and lowercase letters, numbers, underscores, hyphens, and periods.							
	Transform and convert records - optional							
	Configure Kinesis Data Firehose to transform and convert your record data.							
	Transform source records with AWS Lambda Info Kinesis Data Firehose can invoke an AWS Lambda function to transform, filter, un-compress, convert and process your source data records. The specified AWS Lambda function can also be used to provide dynamic partitioning keys for the incoming source data before its delivery to the specified destination.							
	Data transformation							
	O Disabled							
	C Enabled							
	Convert record format Info Data in Apache Parquet or Apache ORC format is typically more efficient to query than JSON. Kinesis Data Firehose can convert your JSON- formatted source records using a schema from a table defined in AWS Glue 2. For records that aren't in JSON format, create a Lambda function that converts them to JSON in the Transform source records with AWS Lambda section above.							
	Record format conversion							
	O Disabled							
	O Enabled							

10. In the destination settings, choose an Amazon S3 bucket folder. You will need to create an S3 bucket if it does not exist. The event data will be written to the chosen bucket folder.

Choose a bucket in Amazon S3			×
Buckets (48) Q. pin X 1 match			 < 1 →
Name 🖾			∇
O pinpoint-datastream-firehose	Asia Pacific (Singapore)		
		Cancel	Choose

The bucket folder configured here will be used as Amazon S3 event bucket folder in Amazon Pinpoint Email channel plugin configured in Redpoint Interaction.

11. You may leave other default options. Click Create delivery stream.

aws	Services	Q Search for services, features, blogs, docs, and more	[Alt-	-S]
=	Destinat Specify the o	tion settings Info destination settings for your delivery stream.		
	S3 bucket			
	s3://pinp	oint-datastream-firehose	Brov	/se Create 🛃
	Format: s3:/	/bucket		
	Dynamic par Dynamic par partition you you create a incurs additi O Disable O Enable	Artitioning Info titioning enables you to create targeted data sets by partitioning streaming S ur source data with inline parsing and/or the specified AWS Lambda function. new delivery stream. You cannot enable dynamic partitioning for an existing onal costs per GiB of partitioned data. For more information, see Kinesis Data ed d	53 data based on p You can enable dy delivery stream. E Firehose pricing.	artitioning keys. You can mamic partitioning only when nabling dynamic partitioning
	S3 bucket By default, K default by sp	prefix - optional linesis Data Firehose appends the prefix "YYYY/MM/dd/HH" (in UTC) to the da secifying a custom prefix that includes expressions that are evaluated at runti	ata it delivers to Ai ime.	nazon S3. You can override this
	Enter a pi	refix	G	
	You can repe	eat the same keys in your S3 bucket prefix. Maximum S3 bucket prefix charact	ers: 1024.	
	S3 bucket You can spec to evaluate a	error output prefix - optional cify an S3 bucket error output prefix to be used in error conditions. This prefix at runtime.	can include expre	ssions for Kinesis Data Firehose
	Enter a pi	refix	1	
	 Buffer h The field costs. 	nints, compression and encryption s below are pre-populated with the recommended default values for S3. Prici	ng may vary depe	nding on storage and request
	 Advar Server-si no tags. 	nced settings ide encryption disabled; error logging enabled; IAM role KinesisFirehoseServic	ceRole-pinpoint-ap	-southeast-1-1658400414244;
			Cancel	Create delivery stream
			Cancel	create delivery stream

12. In the Settings menu of your Pinpoint Email project, click **Event** stream.

aws	III Services Q Search for services, features, blogs, docs, and more [Alt+S]		
=	Pinpoint $>$ All projects $>$ rpidev-test-pinpoint $>$ Settings $>$ Event stream $>$ Edit event stream		
	Event stream settings		
	Services		
	Stream campaign response and app event data for long-term storage and additional analysis.		
	 Stream to Amazon Kinesis Stream events for email, SMS, push notifications and app analytics to Amazon Kinesis Choose a stream type Amazon Kinesis offers services that you can use to load and analyze streaming data. Choose the type of stream you want to create. Info Send events to an Amazon Kinesis Data Stream Build applications that process your data streams in real-time. Send events to an Amazon Kinesis Data Firehose stream Transfer and load streaming data into Amazon S3, Amazon Redshift, or several other services. pinpoint-kinesis-firehose You can create new streams on the Amazon Kinesis consoler MM role Choose an IAM role that allows Amazon Pinpoint to send events to Amazon Kinesis. Info 		
	Use an existing role		
	 Automatically create a role 		
	PinpointSegmentImport C		
		Cancel	Save

- 13. In the Event stream settings, select Stream to Amazon Kinesis option.
- 14. Choose Send events to an Amazon Kinesis Data Firehose stream option and select your previously created data stream
- 15. Finally, you can use existing or create new IAM role for the event stream.

5.3 CheetahMail Account Configuration

This section shows how to setup your CheetahMail account to configure an RPI CheetahMail email channel.

- 1. To acquire a CheetahMail account you will need to contact CheetahMail support directly to obtain the necessary credentials to setup an RPI CheetahMail email channel.
- 2. You will also need to request whitelisting of your IP address (i.e., the server where RPI is located). This is needed for SFTP access, which will facilitate downloads of email delivery results.
- 3. If your account allows you to add custom fields, log into https://app.cheetahmail.com/cm/login.
- 4. Click the Admin button in the upper navigation bar of the CheetahMail application.



5. In the Admin screen, click Account Admin.



- 6. In the Account Admin page, select Manage Fields. Add fields as stated in step 7.
- If you cannot see Manage Fields on the Account Admin page, request CheetahMail support to add these fields for you. CheetahMail only supports STRING, NUMBER, DECIMAL and DATE data types for custom fields.

To create a generic custom field, you need to suffix the name of the data type to a series of numbers starting from 1.

e.g., 'STRING1', 'STRING2', 'STRING3' and so on, or 'NUMBER1', 'NUMBER2', 'NUMBER3' up to 'NUMBER-N'.

Note: you can only request up to a total of 500 fields.

8. When results are read back from CheetahMail they are read via SFTP as part of the channel synchronization task that runs periodically. Daily exports need to be configured in CheetahMail as below to make sure the expected file is available:

	-
Email Events Reported:	Bounces, Bulk Mail Sends, Bulk Mail Unsubscriptions, Clicks and
	Opens, Event Based Mail Sends, Issue ID File, Transactions
Loader Events Reported:	Loader Events
· ·	
Subscription Events Reported:	Change of Address, Demographic Changes, Subscriptions,
	Unsubscriptions
Delimiter:	Comma Delimited
Compression:	zip
Output Directories:	/cmsg/fromcheetah/

The table below describes the CheetahMail RESTful service-based API calls that are utilized by the RPI CheetahMail channel plugin.

API	Service	Usage	Call	Data sent	Expected
https://ebm.cheetahmail.com/api/login1	login1	Get a login cookie; this is used to authenticate other API calls.	1	API username and API password	Login cookie
https://ebm.cheetahmail.com/api/ok1	ok1	This is to ensure that we are properly passing the authentication cookie obtained from login1 service, and to check if the cookie does not expire yet.	2	Cookie	"OK"
https://ebm.cheetahmail.com/cgi-bin/api/setlist1	setlist1	Creates new subscriber list.	3	Subscriber list name	Subscriber list
https://ebm.cheetahmail.com/cgi-bin/api/getlist1	getlist1	Check if the newly created subscribers list is now available for use. This is important for the whole email sending process because creating the subscribers list from API takes 10 to 15 minutes before it will become available. Without this service to check subscriber list availability, the sending process will fail.	5	Subscriber list ID	"OK"
https://app.cheetahmail.com/api/bulkmail1	bulkmail1	Creates new mailing and execute mailing for send.	5/8	Email content	Mailing id

https://app.cheetahmail.com/cgi-bin/api/load1	load1	Upload subscriber's data.	6	Customer data	"OK"
https://app.cheetahmail.com/cgi-bin/api/mailgo1	mailgo1	Set mailing subscribers list and approve mailing for sent.	7	Mailing id, subscribers list id	"OK"
https://ebm.cheetahmail.com/api/setuser1	setuser1	Re-subscribe contact.	By request	Email address	"OK"
https://ebm.cheetahmail.com/api/getuser1	getuser1	Check if contact exists in CheetahMail.	By request	Email address	Contact demographics

5.3.1 Creating a Subscriber List

1. In a web browser, log into <u>https://app.cheetahmail.com/cm/login</u>.

Login	
You will be prompted to enter you	ur password in a later step.
Enter username	
Username:	
Supported Browsers	Continue to Next Sten
	Continue to Next Step

2. Once you have successfully logged into the portal, you will be redirected to its main page.

CAMPAIGNS	B DATA	SEGMENT	REPORTS	FORMS		
Welcom	e!					
Choose	Folder		Welcome	e!		
Default	ts	¥ 💽	Fall	2015: opt En	hancomor	2
	Create a new mail	ing	INEC		Indicemen	1
8	Create a new segn	nent		Learn m	ore	
12AC	See mailing report	ts				
	See mailing calend	dar	For assist	ance, please v	risit the Online Help sec	:ti
	Load Data		Marketin	g Forward Bl	og	

3. Click the Admin tab.



4. Click Subscriber List.



5. To create a Subscriber List, click Create New Subscriber List.



6. You will now be redirected to the Create New Subscriber List page. Enter a List Name (the only required field).

CAMPAIGNS	DATA	SEGMENT	REPORTS	FORMS		
Admin > Subscribe	r Lists	alle and the f				
Create Nev	v Subsc	rider List				
Field					Value	
List Name:					August_List	
List Description:						
Alternate Descript	ion:					
From:						" <
Merge Priority:						
Affiliates:					Current Affiliate	
Locked:						
Save						

- 7. Click **Save** to commit your changes.
- 8. Select the newly created Subscriber List. In the browser's address bar, look for the 'pid' parameter. Take note of its value, as you will use this to configure the channel's Subscriber list ID.

←⇒ C fi	Attps://	app.cheetahm	ail.com/cgi-bi	n/mailers/da	ta_lists/edit.cgi?pid	= <mark>2101686677</mark> &desired_a	id=2093948340
Re	dPo	înt					
CAMPAIGNS	DATA	SEGMENT	REPORTS	FORMS			
Admin > Subscribe	st: Edit	Subscribe	r List				
Field					Value		
List Name:					August List		
List Description:							
Alternate Descript	ion:						
From:					•	* <	>
Merge Priority:							
Affiliates:					Current Affiliate		
Locked:							
Save							

5.3.2 Creating a Segment

- 1. Log in to the CheetahMail portal.
- 2. Click Segment > Segments.

CAMPAIGNS	DATA	SEGMENT	REPORTS	FORMS
Admin > Subscriber August_Lis	Lists 5t: Edit	Segments Segment Download		

3. Click Create Segment.



4. Enter a unique segment name then click Create.

Create New Segn	ient 🗵
Segment name:	Segment_Sample

5. The newly created segment should be displayed; otherwise select it from the list of segments.



6. In the browser's address bar, look for URL parameter 'id'. Take note of its value, as you will use this to configure the channel's Segment ID.

7. Click Subscription list is one of.

Segment	Sample (Un	assigned)	ist condition has been defined
The segment of	annot be maned to unit		
Settings	Targeting		
Tables			
Type: Standar	d 🗸	Subscription list	is one of
c	Client	Editable View	Classic View
🛓 酱 Demogra	iphic		
S	ystem		
🗄 🌐 Insights 🗄 🙀 Subscrip	tion		

8. Select the Subscriber List you want to associate with the segment, then click **Done** to commit your changes.

Subscription Lis	st - Choose List	X
Action: Field: Operator:	Include Subscription List	
Show All	A Page 1 of 1 🕨 🕅	
Value Augus	t 📀 📀	-
August_List (2	101686677)	•
	Done	ncel

5.4 SendGrid Account Configuration

This section describes how to set up a SendGrid account to configure an RPI SendGrid email channel.

5.4.1 Setting up an Account

- To acquire a SendGrid account, you will need to sign up for either a free or a paid account. If you wish to sign up for a paid account, navigate to <u>http://sendgrid.com/transactional-</u> <u>email/pricing</u>. To sign up for a free SendGrid account, navigate to <u>http://sendgrid.com</u>.
- 2. At the SendGrid home page, hover over the Pricing tab and click Get Started for Free.



3. A SendGrid sign up form will be displayed. Fill in the required details and click Create Account.

SendGrid
Let's Get Started
Sign up for free. No credit card required.
Email Address •
✔ Use email address as username
Password •
Must have more than 8 characters, including at least 1 letter and number.
I'm not a robot
I accept the Terms of Service and have read the Services Privacy Policy
Create Account

- 4. Once you have created your account successfully, you will be emailed by SendGrid support to activate your account.
- 5. Once you have activated your account successfully, you may log into the SendGrid portal.



The table below describes the SendGrid RESTful service-based API calls utilized by the RPI SendGrid channel plugin.

API	HTTP VERB	Data	Usage
https://sendgrid.com/api/mail.send.json	POST	api_user=your_sendgrid_ username&api_key=your_ sendgrid_password&to=d estination@example.com &toname=Destination&su bject=Example_Subject&t ext=testingtextbody&from =info@domain.com	This endpoint allows you to send email.
https://sendgrid.com/api/profile.get.json	POST	api_user=your_sendgrid_ username&api_key=your_ sendgrid_password	View your SendGrid Profile.
https://sendgrid.com/api/unsubscribes.delet e.json	POST	api_user=your_sendgrid_ username&api_key=your_ sendgrid_password&email =emailToDelete@domain. com	Delete entries in the Unsubscribes list.
https://sendgrid.com/api/unsubscribes.get.j son	POST	api_user=your_sendgrid_ username&api_key=your_ sendgrid_password&date =1	Retrieve entries in the Unsubscribes list.

For more details about SendGrid APIs, please see https://sendgrid.com/docs/

5.4.2 Setting up an API key for SendGrid Web API v3

An API key and API key ID are required to configure a SendGrid email channel to use the SendGrid Web API v3.

- 1. In a browser, navigate to https://sendgrid.com/login and sign in.
- 2. Click Settings > API Keys.
- 3. In the API Keys section, click Create API Key and select General API Key.



4. Enter the name of the API Key, select API Key Permission and click Save.

Cre	eate	e API Key
API Key	y Name	•
API Key	y Perm	issions* ①
•	2,	Full Access Allows the API key to access GET, PATCH, PUT, DELETE, and POST endpoints for all parts of your account, excluding billing and Email Address Validation.
	2	Restricted Access Customize levels of access for all parts of your account, excluding billing and Email Address Validation.
	20	Billing Access Allows the API key to access billing endpoints for the account. (This is especially useful for Enterprise or Partner customers looking for more advanced account management.)
		Cancel Create & View

5. Copy the API Key and store it in a safe place to avoid your account being compromised.

Note that a SendGrid account must have the following minimum required permissions when used with RPI:

- API Keys Read Access
- Mail Send Full Access
- Category Full Access

- Email Activity Read Access
- Suppressions Full Access
- Tracking Full Access

5.5 Acoustic Account Configuration

This section shows how to set up an Acoustic account for use with RPI.

- 1. To create an Acoustic account, please navigate to http://www.acoustic.com/.
- 2. Click Contact Us.



3. Call a sales representative or complete and submit the form.

Let's t	alk	
Send us your conta	ct info and a sales	
	or mo and a sates	
expert will follow u	p as soon as	
possible.		
FIRST NAME*	LAST NAME*	COLAR"
COMPANY EMAIL*	PHONE NUMBER*	Already an Acoustic Customer? To
		expedite your request, please submit a
		Center To submit a support case you will
		first need to create an Acoustic ID.
COMPANY*	COUNTRY OR REGION	
		For enterprise support, visit our support
		portal or call
		+1 866-820-5136 (US)
CTATE (DDOV/INICE		+44 808-169-2385 (UK)

4. Once you have credentials, navigate to https://goacoustic.com.

5. In your My Acoustic page, select your subscription.



6. Create a Regular Database and store it in a Shared folder. Click Next.

≡	acoustic PS_RedPoint Global: Transact (tr
СА	Create database / list
品 Q	Steps: 1 2 Name Add Fields
لما	What type of database or list would you like to create?
⊞	 Regular Test List
Ē	Seed List
\bowtie	Database or List Name
82	Where would you like your database or list to be saved?
0.	Shared Select
ñ	Create a Flexible or Restricted database
ᇛ	Flexible Database
തി	Required for SMS, Mobile App Messages, CRM and strongly recommended for UBX customers. Select your database field(s) that you want to sync by when adding or updating contacts.
~	Restricted Database
	Requires that you select a Unique Identifier(s) now. The field that you select as your Unique Identifier is required when adding or updating contacts. Typically the Unique Identifier is Email, but can be other fields.

7. Add RPContactID and ChannelExecutionID fields and click the Create button.

Steps: 1 Name	2 Add Fields				
Field Name					
Field Type					
Text				\sim	Add Field
Database / List Field	ls				
		Email Type	System	No	
		Opted Out Date	System	No	
		CRM Lead Source	System	No	
		Last Modified Date	System	No	
		Opt Out Details	System	No	
		Opt In Date	System	No	
		CREATED_FROM	System	No	
Delete	e Edit	ChannelExecutionID	Text	No	

8. Create an Automated Message Group.



9. Associate the Transact database as the group's Contact Source.

ate a Group of Automated Mes	sages	
etails		
Name		
RPI Doc		
Notes		
Contact Source		
RPIDevDoc	(Select
*Note:Only shared databases, o	ontact lists, and queries can be assigned to a group of automated me	ssages. All

10. Set the Event Trigger to Transact XML.

11. Set the Tracking Level to Unique.

M/D/YY			
Tracking Level (Automated Messages)			
O Unique			
Aggregate			
Open Only			
O No Tracking			

12. Click Save & Activate.

	Group of Automated Me	ssages Summary
<	<back all="" groups<="" th="" to:="" view=""><th></th></back>	
	Group Name	RPI Doc
	ID	33109381
	Notes	none
	Contact Source	RPIDevDoc
	Status	Active
	Event Trigger	Transact
	Tracking Level	Unique
	Completion Date	none Edit
_		

Note that the Group ID is required when configuring the RPI Acoustic channel.

13. In the Email menu, create an Email Campaign.



14. Select the Blank layout.

Browse Layouts			
			Blank Layout A clean slate from which to start Open
Blank Layout	Newsletter - Moderate	Newsletter - Complex	
		And the second s	
Welcome - Simple	Welcome - Moderate	Sale - Simple	

15. Configure the email settings as described below:

Subject Line	%%BPL Subject%%
Address Settings	
Contacts	
Email Settings	

Subject Line	Default Personalized	
Address Settings	From Name	%%RPI_FromName%%
Contacts	From Address	%%RPI_FromAddress%%
Email Settings	Reply-to Address	%%RPI_FromAddress%%

Subject Line	Select Contact Source	
Address Settings	Contact Source:	RPIDevDoc (Change)
Contacts	Owner:	transact@redpoint.net
Email Settings	Seed List(s):	
	Suppression List(s):	
	Send Time Optimization:	Disabled

- Set the Contact Source property to the Transact database.
- Set Subject Line to '%%RPI_Subject%%'.
- Set the personalized From Name to %%RPI_FromName%%
- Set the personalized From Address to %%RPI_FromAddress%%.
- Set "Click to view in Browser" to off

Subject Line	Template Location Private Browse
Address Settings	Message Encoding Unicode: utf-8
Contacts	Tracking Level
Email Settings	Unique Aggregate Opens Only
	O No tracking
	Insert 'Click to View in Browser' link at top of this email
	On Off

- 16. Set the email body as follows:
 - In the HTML tab, set the body text to %%RPI_HTML%%.



• In the Text Only tab, set the body text to %%RPI_TEXT%%

Email details				
HTML Text Import Text	<u>*</u>	ø	.	<#>
%%RPI_TEXT%%				

• Save the email to persist the settings. Then configure the mailing body to automate send mailing by clicking the Automate button.

Save	•	Test Options 🗸	Automate	Review and send
			\smile	

• Select the Assign Mailing to Existing Group... radio button. Save the mailing as Active.

email.	oresponder based on migger event, in user or contact performs trigger event, i men se	ena inis
Opt In		
Edit Profi	le	
Custom		
Assign Emai appear in the dro	to Existing Group of Automated Messages: Only groups that share the same contact pdown.	source w
RPI Doc		\sim
Group Event Tri Transact	iger	
Group Event Trie Transact Start sendin	gger g to all contacts at scheduled start	
Group Event Tri Transact Start sendin Use Send Ti	gger g to all contacts at scheduled start me Optimization (STO) to send at contact's preferred send time over a period of	
Group Event Tri Transact Start sendin Use Send Ti 24 HOURS V	gger g to all contacts at scheduled start me Optimization (STO) to send at contact's preferred send time over a period of from start date/time	
Group Event Tri Transact Start sendin Use Send Ti 24 HOURS V Vote:STO will ov	g to all contacts at scheduled start me Optimization (STO) to send at contact's preferred send time over a period of from start date/time erride throttling.	
Group Event Tri Transact Start sendin Use Send Ti 24 HOURS V Note:STO will ov	g to all contacts at scheduled start me Optimization (STO) to send at contact's preferred send time over a period of from start date/time erride throttling.	

- 17. Configure the sending IP address in the Org Admin section
 - Click on Settings > Administration > Security Settings > Access Restrictions.



~ A	V Access Restrictions								
Not	Note: All changes you make in the Access Restrictions take effect immediately (no save required).								
Ger	General Restrictions								
	Requires I	HTTPS: 🔽 Requires all us	ers to access Ca	mpaign through an H	HTTPS connection. 1	This option is more secure but can slow down access.			
	Allow Multi-account S	Sign-on: 🖌 Allows an Org /	Admin to configu	re an account so an	other user can link inf	to it.			
IP A	ccess Restrictions								
	Users:	You can limit the access of user IP restrictions on a pe	users in this org r user basis. To e	anization to the IP ad mable IP restrictions	dresses you specify , add one or more IP	below. Restrictions added here for UI and API access can be overridden by s below and set the allowed access.			
	Applications:	IP access restrictions only authentication to call our A	apply to API req Pls, OAuth crede	uests that use jsession antials are used to res	onid authentication. I strict access instead	f you are using OAuth of IP addresses.			
Your If you	current IP address i u activate IP restrictions b	ay checking any IP address in	the Allow UI Acc	ess column and you	don't also check this	s IP address, you may lock yourself out of the organization.			
т	ype IP Address	Allow UI Access	Allow API Access	Allow FTP Access	Actions				
5	2	✓	 Image: A start of the start of		Delete				
5	2	\checkmark	~		Delete				
					Tim Delete				

- Add new IP Address
- Check Allow UI Access
- Check Allow API Access

18. Optionally configure an unsubscribe landing page:

• Click on Settings > Organization Settings > Opt Out/Suppression Settings.

Opt Out/Suppression Settings	
Enable Organization Suppression List:	Yes
Organization Suppression List:	MASTER SUPPRESSION LIST
Organization Suppression Opt Out Handling:	Add Opt Outs
Allow forwards to be sent to suppressed contacts:	No
Opt Out Link Required to Send:	Yes
Custom Opt Out URLs:	http://www.pages01.net/ps_redpointglobaltransact/RPI_Unsubscribe/

5.6 Instiller Account Configuration

This section shows how to setup your Instiller account to configure the RPI Instiller email channel plugin. Please follow the steps below:

5.6.1 Account Provisioning and Signing In

Note: Provisioning an Instiller account requires liaison with an Instiller representative.

This section describes how to login to the Instiller portal. Please follow the steps below:

1. In a web browser, log onto the provisioned Instiller portal using the URL provided by your Instiller representative. At the login page, enter your username and password.

ingtiller	
Email Address *	
Password *	
Forgot your password?	요 Log In
Acceptable Use Privacy & Cookies Help	

2. Having successfully logged into the portal, you will be redirected to the main page of the portal as shown below.

Reputation	Monitor				s	earch for help	
RedPc Your Success is th							
Home	Lists	Forms	Templates	Campaigns	Automation		
Dashboard Home / Dashboard							

5.6.2 Field Maps Configuration

1. In the main portal page, show the Lists tab.

Home	Lists	Forms	Templates	Campaigns	Automation		
Dashboard Lists / Dashboard							

2. Click Field Maps in the Related Features section.

🔧 Related Features
Field Maps
User Tags
Field Name Labels
Realtime Block List

3. In the Field Maps section, click New Field Map.

	+	New Field Map
100 (Options	
0 ⊦	lelp	

4. In the New Field Map section, supply the required fields. In this case, you must supply values for Name and API Identifier. Do not change the default value of First Row Headings and Field Delimiter.

New Field Map Lists / Field Maps / New Field Map					
Details					
After saving the basic details of your Field N	lap you will then be ab	ble to select the required columns.			
Name *					
API Identifier 6					
First Row Headings	No - Process first	row of file	•		
Field Delimiter	Comma separate	d	•		
CSV Columns					
Aud contains into the Held wap and set the confect other damp the and was at the end of each row. B User Profile ▼					
Type Column	Length	Notes			
1 PROFILE Email Address	75 Chars	Valid email address format required	* v		
Save Changes					

In the CSV Columns section, you must create custom fields with the following names:

rpi_extendeddata rpi_dynamicassets

CSV	Columns							
1 A	Add columns into the Field Map and set the correct order using the arrows at the end of each row.							
a u	Iser Profile 👻 🎟	Custom Fields 👻 🕞 Tag	s Ø Placeholde	r				
	Туре	Column	Length	Notes				
1	PROFILE	Email Address	75 Chars	Valid email address format required	~ ~			
2	сизтом	rpi_extendeddata			a ~ ~			
					-			

Click Save Changes to create the new Field Mapping. Take note of the API Identifier, as you will use its value as the Field mappings identifier when configuring the RPI Instiller channel plugin.

5.6.3 Setting Up the Time Zone

1. In the main portal page, click Account Settings.



2. In the Account Settings section, set the appropriate time zone.

Account Settings Home / RedPoint / Account Settings / Settings						
	Settings	Branding >				
General						
1 These settings apply to the entire account. T	o manage Logins and to assign specific permissions for individuals click here .					
Client Account ID	285					
Time Zone	Australia/Perth	-				
Created at 15:13 on 04/03/2016 by adi@instiller.co.uk.						
5.7 SparkPost Account Configuration

5.7.1 Account Provisioning and Signing In

Note: Provisioning an Elite SparkPost account requires liaison with a SparkPost representative.

This section describes how to login to the SparkPost portal. Please follow the steps below:

1. In a web browser, log into your provisioned SparkPost portal using the URL provided by your SparkPost representative. At the login page, enter your username and password.

SPARKP	ST
Log In	
Email or Username	
Password	
Forgot your password?	
Keep me logged in	
on't have an account? Sign up.	Single Sign-C

2. Once you have successfully logged in, you will be redirected to the main portal page.

SP			
† 16	Dashboard Signals Analytics	~	Dashboard
:=	Events		Your Usage Report
<>	Content	č	Today Since Jun 14 2020, 3:30pm
*	Alerts		
\$	Configuration	~	U 25,000 Used Daily Limit Need to send more? Upgrade your account. Learn more about these limits.
			This Month Billing cycle: May 30 2020 - Jun 30 2020
			112 100,000 300,000 Used Included Monthly limit

5.7.2 API Key Provisioning

1. In the main portal page, click Configuration and then API Keys.

SP/			
A	Dashboard		
ih.	Signals Analytics	~	
:=	Events		
< >	Content	~	
	Recipients	~	
۲	Alerts		
ф	Configuration	~	
	Webhooks		
	IP Pools		
	API Keys		
	SMTP Settings		
	Sending Domains		
	Tracking Domains		

2. Click Create API Key.



3. Supply an API Key Name and the appropriate API permissions. Click Create API Key to create a new API key.

CAPI Keys		
Create API Key		
API Key Name		
Subaccount		
None		(
This assignment is permanent. Leave blank to	assign to master account.	
API Permissions All Select		
Metrics: Read-only Wetrics: Read-only Event Webhooks: Read-only Event Webhooks: Read-Write Templates: Read/Write Templates: Read/Write Tamplates: Read/Write Transmissions: Read-Only Transmissions: Read/Write Allowed IP8	Send via SMTP Recipient Littls: Read/Write Tracking Domains: Read/Write Sending Domains: Read/Write Sending Domains: Read/Write Uppression Lists: Read/Write Ready Wethooks: Read-only Relay Wethooks: Read-Only	Account: Read/Write Gubaccounts: Read/Write Ustaccounts: Read/Write Pools: Read P Pools: Read/Write A/B Testing: Read/Write Oats Privacy: Read/Write
10.20.30.40, 10.20.30.0/24		
Leaving the field blank will allow access by vali	d API keys from any IP address.	
Create API Key		

4. Copy the API Key value and store it safely.

0	New API Key Make sure to copy your API key now. You won't be able to see it again!
	37e52b0
	Сору

5.7.3 Sending and Tracking Domain Configuration

1. To configure a Sending Domain, in the main portal page, click Configuration and then Sending Domains.

SPARKP ⁶ ST				
	Dashboard			
Π	Dasilboard			
ih.	Signals Analytics	~		
:=	Events			
<>	Content	~		
<u></u>	Recipients	~		
۲	Alerts			
۵	Configuration	~		
	Webhooks			
	IP Pools			
	API Keys			
	SMTP Settings			
	Sending Domains			
	Tracking Domains			
	Subaccounts			

2. Click New Domain and supply a valid sending domain.



3. Test the sending domain and make sure that validation is successful.



4. To configure a Tracking Domain, in the main portal page, click Configuration and then Tracking Domains.



5. Click New Domain and supply a valid tracking domain.



5.8 Responsys Account Configuration

5.8.1 Creating the Folder

- 1. In a web browser, log into the Responsys portal at <u>https://interact2.responsys.net/suite/c</u>.
- 2. Once you have successfully logged in, you will be redirected to the main page of the portal, as shown below.

		ACLE Responsy	s						<u>^</u>	∋ ii ♥ <
Campaigna	*									
	- K.	Monitoring						See all	Shortcuts	
Folders		Campaign name	Channel	Sent time	Lounch type	Status	Skipped	Sen		
	•	RPI_2067_2065_69	2	9/12/2017 3:1	2 🚺	0	0	1		
🖽 Data	•	RPI_2066_2064_69	2	9/12/2017 3:0	6 🔘	O	0	1	Create a	Create a Program
insight	•	RPI_2064_2062_69	2	9/12/2017 2:4	з 📵	0	0	1		rogram
	•	RPI_2063_2061_69	2	9/12/2017 2:4	ō 🕕	0	0	1		
	•	RPI_237_232_8e0	1	9/12/2017 12	2 🚺	0	0	1		
		Recent Activity			Upcoming Schee	fule			Announcement	ts
		RPI_2067_2065 RPI_2067_2065 RPI_2067_2065 RPI_2066_2064 RPI_2066_2064 RPI_2066_2064 RPI_2066_2064 RPI_2066_2064	Upd 09/ Crea 09/ Upd 09/ Crea 09/ Crea 09/	1217 0 1217 0 1217 0 1217 0 1217 0 1217 0	Event Data Fe Event Data Fe	ed - Email ed - Push ed - SMS _Reward 15715 aign	09/12/17 1 09/12/17 1 09/12/17 1 10/17/17 1 12/20/17 1 08/09/18 1	1 57 1 57 1 57 2 50 2 50	Modern Ma oviacion & She Prepare For The The immediacy made ma ovincon V Use a Conducting a co of be owarcon V Wey E a Customer-Cen Barah Is a suco manager, somer	rketing Blog sc MApc Can Take To Next D of online interaction has Content Acatt as the Your ontent audit is on the list Empathy is Necessary for Mich assilut marketing on

3. At the portal navigation menu, click Folders.



4. Once the Folder page is displayed, click New folder.



5. Enter the desired folder name, then click Create. You will be redirected to the list of Folders.

Folders - Create Folder		
Create Cancel		
Enter the new folder name:		
RPI_DevQA		
Names cannot be longer than 100 characters and can include only these characters:		
A-L a-L U-J Shace : A - [][]		

6. Check the list to verify if the folder was successfully created.

	\geq	3
olders ing the Shift and Ctrl keys as needed, click on the names of folders to see their contents. Click "" for icon descriptions and more.		
Folders: All Folders Contents: All Types Monetate Naehas OPTIMOVE OPTIMOVE OPTIMOVE Remarketing Remarketing Remarketing RWT Sasha-deletion Styword		
Stackla Stackla Standard_Warmup steve-test-folder-1 Swrve TAISTech Usermind-test Wyng z. ComprehensiveAccountTesting Add to favorites Export Copy. Rename Delete Refresh		

7. Take note of the folder name as you will use it when creating the profile list.

5.8.2 Creating the Profile List

1. On the left side of the portal, click Data > Manage List.

ń	Home	=		CLE [*] Respons	ys			Â	>	3	th	-	0	RR -
			Manage List	s										?
3										_				
-			2017_rpi_dev	qa_list		(hange List: 2017	.rpi_devqa_list		_	Create Ne	w List		
-			List Inform	nation								-		
	Data 👻		List Health				Last File	Load:[none]						
			view: Email	Deliverable	Undeliverable	Total	View Imp	ata ort History	Chan	me ge Schem	a			
			Opt-In Opt-Out	23 (92%) 2 (8%)	0 (0 %) 0 (0 %)	23 (92%) 2 (8%)	View Prop View Rec	ords	Creat	e App Chi	annel List			
			Total	25 (100%)	0 (0 %)	25	Descriptio integratio	n and testing	Brand	1				
							purpos	More						
սե			Filters Seg	ment Groups Seed G	roups Profile Exter	isions								
Ð				Folder: Select All		Created by: Select A	I			Reset	Submit			
×														
Ľ			€ Pa	ge 1 of 1	No data to display							C	reate Sec	d Group
•			Name			Folder				Created	by			

2. Click Create New List.

	Â		Þ	th	-
Manage Lists					
2017_rpi_devqa_list Change List	2017_rpi_devqa_lis	t		Create No	ew List

3. Enter the desired profile list name and select the folder as created previously. Click Save.

Create list – Define the name	e and location of the List.
Save	ancel
Name:	rpi_demo_list Names cannot be longer than 100 characters and can include only the A-Z a-z 0-9 space ! - = @ _ [] { }
Folder:	RPI_DevQA
Description:	

4. When an alert message appears, this confirms that the profile list was successfully created.

Create list
Successful
Done Change Schema Load From File
List: "rpi_demo_list" was successfully created.

5. You need to take note of the profile list name as you will use this to configure the Profile list property at the RPI Responsys channel.

5.8.3 Creating the Content Folder

1. On the left side of the Responsys portal, click Content > Manage Content.

			r 🖻 🔁
	Campaigns •	Manage Content	
∎3-			
-		Search for: Enter file name, author	or tags Exact Match Search More s
1	Content -	Create New Folder All Content	
		🕨 🚖 Favorites 🔷 🔯 Maximize	
	Upload Content	Recent	14 4
		* Content	1
		> interpretation in the second sec	Las Las A
		 BC Bluesun 	Please select a folder.
		Campaigns Certona	
	Create Template from Campaign	Christian Septem	

2. Click Create New Folder.

[Manage Content				
	Sea	rch for: Enter file name, author or tags			
C	Create New Folder	All Content			
	Favorites	Maximize			
	Recent				
	🔻 🗁 All Content	Actions •			
	🕨 🧀 abn	Name A			
	» 🧁 BC				
	🕨 🚞 Bluesun	P			
	Campaigns				

3. Enter the desired content folder name and press the Enter key to commit your changes.



4. Take note of the content folder name as you will use this to configure the Root folder property at the RPI Responsys channel.

5.8.4 Creating the Link Table

1. At the Responsys control menu, click Campaigns > Create Link Table.



2. Click Populate Fields Manually.

Create Link Table				
Create Link Table Select the method to create a new link table.				
Create Link Table				
Extract from Documents				
Extract from Campaigns				
Populate Fields Manually				
Upload Delimited Text File				

3. Select the folder and enter the desired link table name. Once you have finished, click Create.

Create Link Table					
Back Create					
1. Select the folder to hold the new link table RPI_DevQA ▼					
2. Enter a name for the new link table	-OR-				
RPI_LINK_TABLE_DEMO					
Names can include only these characters and have length less than 100 character A-Z a-z 0-9 space ! - = @ [] { }	s:				

4. Take note of the link table name as you will use this to configure the Link table in Responsys channel plugin.

5.8.5 Adding links into the Link Table

To be able to track link clicks in an email campaign, you need to add links into the existing Link Table.

- 1. At the Responsys control menu, click Folders.
- 2. Select the folder where the link table is located.
- 3. Set the content filter to Link Tables

Folders Using the Shift and Ctrl keys as needed, click on the names of folders to see their contents. Click "i" for icon des New folder Import						
Folders: All Folders OPTIMOVE OPTIMOVE_SENT rebeltesting Remarketing RPI_DevQA RWT Sasha-deletion Skyword Stackla Standard_Warmup	Contents: Link Tables ▼ RPI_DevQA RPI_Link ▼ RPI_LINK TABLE_DEMO ▼					

4. Click the down arrow on the left side of the link table, then click View and Edit Data.



5. Click New Record at the link table page.

RPI_DevQA / RPI_LINK_TABLE_DEMO	responsys
Showing: All	Pick View Columns Download
Edit Delete New Record Upload Find	?
[Select All] [Clear All] Page 1 [100] lines per page Record Count = 0	Charset: Western European (ISO-8859-1) ▼
LINK_NAME LINK_URL LINK_CATEGORY EXTERNAL_TRACKING CREATED_DATE_ MODIFIED	_DATE_ IOS_LINK_URL ANDROID_LINK_URL

6. Enter the link name and URL, then click Save when finished. Click Done to see the list of URLs added.

PI_DevQA / RPI_LINK_TABLE_DEMO respons					
Save Done		?			
Record 1 / 1					
LINK_NAME	home_page				
	http://www.redpoint.net				
LINK_URL					
LINK_CATEGORY	None 🔻				
EXTERNAL_TRACKING	Disable Trac	sking			
CREATED_DATE_					
MODIFIED_DATE_					

7. To add a URL parameter (e.g., "Gender"), use e.g., "http://www.Redpoint.net?gender=\${Gender}"

\${Gender} denotes a Responsys Personalization Language element, which facilitates the link's population with the recipient's gender.

5.8.6 Creating an Export Event Data Feed Job

- 1. At the Responsys control menu, click Data > Connect.
- 2. Click Create Job > Export Event Data Feed.

			1	*	>	3	ılı			°,	
Connect							?				
All Jobs Complete	d Jobs Groups										
Group Name: Select Al	Job "	Type: Select All				Sche	dule Type:	Selec	t All		
I A Page 1 of 1 b J Splaying 1 - 11 of 11 Create Jo				te Job 👻							
Edit Run Now	Delete Stop Copy						Imp	ort List	Data	d Tabl	Data
Job ID Group	Name	Job Type	Run	Next	t Run	Pre	e 🐫 Imp	ort Prof	ile Extens	sion D	ata
117	xstest	Export List Data				201	Exp	ort Data	1		
115	Event Data Feed - Push	Export Feed Data		2017	7-09-14 07	201	Exp	ort Ever	nt Data Fe	eed	
115	Event Data Feed - SMS	Export Feed Data		2017	7-09-14 07	201	L 🧟 Crea	ate Grou	qu		
115	Event Data Feed - Email	Export Feed Data		2017	7-09-14 07	201	17-09-14 (0 F	Recurring	9	Active
114	responsys_test_3 cleanup	Import Supplemental Data						0	Dn-dema	and	Active
114	responsys_test_1 cleanup	Import Supplemental Data						F	Recurring	9	Inac
106	fr_daily_import	Import List Data						0	Dn-dema	and	Active

3. Select the type of events for the export job then click Next.

	LC Responsys	Â	\geq
Connect			
Connect	Select event types for this job. Each event type can only be used in one active job at a time. are already requested by another active Export Job. Event Types Contact Interaction Events for Email Sent Sent Converted Converted Converted Contact Permission Events for Email Opted In Opted Out Converted Converted Conve	Those in	gray
	MO Forward Sent MO Forward Failed Contact Permission Events for SMS		
1			

4. Set the file specifications as below. Take note of the File Location Server, Username, and Path as you will use these to configure the FTP Credentials at the RPI Responsys channel. Click Next.

Connect							
Function File Specifications Source Character set of f Target File Fields are delimite Options Schedule Activate & Save Insert column here Insert column here Insert column here Username: Path: Additional File Loc Insert column here Insert column here Insert column here Insert column here Insert column here <td< th=""><th>Unicode (UTF-8) y: Comma y: r as first ion: Compress file © Compress and encrypt file with PGP/GPG key (*) Do not encrypt or compress file at completion ob not encrypt or compress file at completion ob not encrypt or compress file (*) Do not create (*) Do not create (*) Create file with record count File extension: done ver files.responsys.net demo_scp download/event_data_feeds/email on </th><th>y: Select or Import Key</th></td<>	Unicode (UTF-8) y: Comma y: r as first ion: Compress file © Compress and encrypt file with PGP/GPG key (*) Do not encrypt or compress file at completion ob not encrypt or compress file at completion ob not encrypt or compress file (*) Do not create (*) Do not create (*) Create file with record count File extension: done ver files.responsys.net demo_scp download/event_data_feeds/email on	y: Select or Import Key					

5. Select the notification option for export job activity. Click Next.

Connect					
Event Data Feed - Emails Back Next Source Target File Options	 Notify by email after each failed or successful job run Notify by email only after a failed job run Do not notify 				
Schedule Activate & Save					

6. Set the frequency of the export job. Click Next.



7. Set the export job name. Make sure Activate is selected. Click Save.

Connect						
🗳 Event Data Feed - Ema	ail					
Back Save Source	Activate Deactivate					
Target File Options Schedule	Name: Event Data Feed - Email					
Activate & Save	Description:					

5.8.7 Obtain SSH2 Private and Public Keys

SSH2 private and public keys are used to authenticate users of Responsys' SFTP service. You need to contact your Responsys administrator if you wish to provision an SFTP account.

5.9 Salesforce Marketing Cloud (SFMC) Email Account Configuration

5.9.1 Provision an SFMC Core Account

- 1. Request core account with:
 - a. "Sender Authentication Package" (SAP)
 - b. "Automated Interaction Management" (AIM)
 - c. FTP user and password
- 2. Request disabling of the default headers and footers for the account
- 3. Request to enable "Extract Tracking"
- 4. Request to enable "Secure Link Wrapping"
- 5. Confirm that the back-end Business Rule called "Enhanced Sender Profiles" is enabled
- 6. Set Core Account password and provide to Operations for documenting in Master Passwords spreadsheet

5.9.2 Post-Provisioning Steps

1. Set up RPI user for the channel configuration from Administration -> Users

nistration		
verview Account - Security - A	Applications +	
sers > NHPTV System User		
Save Ø Cancel		
General Settings		
	U	
Name	NHPTV System User	
Reply Email Address	rpi@redpoint.net	
Notification Email Address	rpi@redpoint.net]
Username	nhptv_rpi_usr]
External Key	a2299d66-4f29-4666-bc94-96e38212d6d0	1
Time Zone	(GMT-05:00) Eastern Time (US & Canada) *	
	Note: * Indicates Daylight Saving Observance	
Culture Code	English (United States)	×
Enabled		
API User	2	
In the second sectors of		
USER Permissions		
	Add Users to Account	Remove Access to Interactions
	🕑 Administrative Data Management	View Tracking Only
	Allow user to Approve emails	Removes access to the 3sixty application
	Remove Access to Lists	Grant the user access to the web services
	Remove Ability to Send Emails	Remove Access to Delete Lists
	Remove Access to Modify Profile Attributes	Remove Access to Templates
	Manage Data Extension Data and Retention	on Policy
Marketing Cloud Permissions and Role	S	
Select Applications for user: Select Applications for user.	mail	M Automation Studio
2 Specify Marketing Cloud Roles	Jarketing Cloud Administrator	Marketing Cloud Marketing Cloud Channel
for user:	Jorkating Cloud Contact Editor/Dublicher	Manager
01	Jarketing Cloud Viewer	- markeing cloud security Administrator
01	and any croad viewer	

2. Update Company Information from Administration -> Account Settings: (this defines the information that will be put into the merge fields in RPI)

	Example: 5/30/2014 7:42 AM
⊟ Company Information	
Company Name	New Hampshire Public Television
Street	268 Mast Road
City	Durham
State	NH
Zip/Postal Code	03824
Country (Optional)	US
	<i>d</i> .

5.9.3 Configuring PGP Encryption for Events Data Extract

These sections describe the steps required to configure PGP encryption for the events data extract.

5.9.3.1 Creating Data Extract Activity

This section describes how to create Data Extract Activity from SFMC automation studio, which is used to pull email campaign event data from within RPI. Please follow the steps below:

- 1. Open the web browser and login to your SFMC account.
- 2. In Salesforce Marketing Cloud main page, hover over Journey Builder menu and click Automation Studio



3. In Automation Studio main page, click Activities tab.

Automation Studio	Overview	Activities	
Activities			
Q Search Data Extract			
 SEND EMAIL IMPORT FILE FILE TRANSFER FILE TRANSFER All Data Extract 			
 SQL QUERY FILTER SCRIPT 			

4. To create new **Data Extract** activity, click the **Create Activity** button located at the upper right corner of the Activities tab.



5. Select Data Extract activity and click Next.



6. In the **Properties** tab, provide values for the required text fields in the Data Extract activity.

	Create I	New Data Extract Activity		×
PROPERTIES C	CONFIGURATION SUMMARY			
Name*	SFMC Channel DE	Description	Add description here	
External Key				
File Naming Pattern*	RPL_EVENT_EXTRACT_SFMC_Channel_DE.zlp Wildcard specifiers: %%%ear%6%,%%%ear%6%,%%%ear%6%%ear%%ear			
Extract Type* 🕚	Tracking Extract *			
Cancel				Next

- a. **Name*** Descriptive name of the Data Extract activity
- b. Description Additional information about the Data Extract activity
- c. File Naming Pattern* A file name used when generating the exported email campaign event data. The file name has the following naming pattern: *RPI_EVENT_EXTRACT_<Channel Name>.zip* The *<Channel Name>* suffix should match the Salesforce Marketing Cloud channel name configured in RPI. If one or more spaces in the channel name itself, it should be replaced by
 (_) underscore character when providing the file name. For example, if channel name is *SFMC Email DE*, file name must be set to *RPI_EVENT_EXTRACT_SFMC_Email_DE.zip*
- d. Extract Type* Must always be set to Tracking Extract.
- 7. Click Next. In Configuration tab, configure the following.
 - a. Rolling Range* Value must be set to 30 Days
 - b. Other settings must remain with their default values. Click Next.

	Create New E	Data Extract Activity	×
PROPERTIES C	ONFIGURATION SUMMARY		
Rolling Range	Specific Range	Extract Attributes	Extract Bounces
30 Days	•	Extract Click Impressions	✓ Extract Clicks
All ranges 12AM to 12AM		 Extract Conversions 	Extract List Membership Changes
Account IDs		Extract Lists	Extract Multiple Data Extension List Data
Attributor		Extract Not Sent	✓ Extract Opens
Autoutes		Extract Send Impressions	Extract Send Job Impressions
Character Encoding	Default	 Extract Send Jobs 	Extract Sent
Column Delimiter	Default •	Extract Spam Complaints	Extract Status Changes
Email Send Definition		Extract Subscribers	 Extract Survey Responses
External Key		 Extract Unsubs 	Include All List Members
Format	C9V •	Include All Subscribers	Include Campaign ID
Send IDs		Include GEO	Include Inferred Opens
Text Qualifier		Include Milliseconds	✓ Include Test Sends
Imeropo		Include Unique Clicks	Include Unique For URLClicks
	Controlocito Central Standard Time	Include Unique Opens	Include Unsub Reason
		Include User Ameri Information	Ouste Text
Cancel			Back Next

8. Finally, in the **Summary** tab, click **Finish** to create the Data Extract activity.

	Create New Data Extract Activity	×
PROPERTIES CONFIGURATION SUMMARY		
Properties Edit Name SFMC Channel DE External Key Description Sample SFMC Channel DE to extract email campaign event data	Extract Fields Dete Range Rolling Range: 30 Days Account IDs Attributes Character Encoding Default Column Delimiter Default Email Send Defnition Ex ternal Key	Eat
Extract Type Tracking Extract	Extract Attributes False Extract Bounces True Extract Click Impression False 5 Extract Clicks True	
	Extract Conversions True Extract Ust Membership Palse Changes Extract Ust Ealse	
	Extract Multiple Data Ex tension List Data Extract Not Sent False	
ancel	Extract Opens True Extract Send Impression Falso s	Back Finish

5.9.3.2 Copying Data Extract Activity ID

This section describes how to capture and copy the Data Extract Activity ID created in SFMC automation studio and used as a *Tracking extract activity ID* within the SFMC channel configuration settings in RPI. Please follow the steps below:

1. Hover over and click the Data Extract activity created in the prior section, from Data Extract Activities list.

NAME	EXTERNAL KEY	DATE CREATED	DATE MODIFIED 👃
SFMC Channel DE	11BEE2DE-630E-41B0-A98F-355AF9D5BDA8	07/26/2021 1:08 PM	07/26/2021 1:08 PM

2. In the address bar of your web browser, copy the Data Extract activity id that can be found in the link as shown below:

$\ensuremath{}$ Automation Studio - Marketing \times	+								
$\leftarrow \ \ \rightarrow \ \ G$	O A http	os://mc.s11.ex	xacttarget.com/cl	oud/#app/Automation Stud	lio/AutomationStudioFu	uel3/%23A	ActivityModal/73/ <mark>11bee2</mark>	de-630e-41b0-a	98f-355af9d5bda8
🕣 Import bookmarks 🗕 Getting Sta	arted							<u>U</u> ndo	
Automation Studio	Overview	Activities						<u>R</u> edo	
								Cuţ	
Activition								<u>С</u> ору	
Activities								<u>P</u> aste	
							Edit Data Extract Act	Paste and Go	
Q Search Data Extract			_	-	-		Edit Data Extractivite	<u>D</u> elete	
				CONFIGURATION				Select <u>A</u> ll	
> SEND EMAIL			PROPERTIES	CONFIGURATION	SOWIMART				
> 🚺 IMPORT FILE									
> 🔁 FILE TRANSFER			Properties			EdIt	Extract Fields		
Y 📴 DATA EXTRACT			Name	SFMC Channel DE			Date Range	Rolling Range: 30 Day	5
All Data Extract			External Key	11BEE2DE-630E-41B0-A9	8F-355AF9D5BDA8		Account IDs		
			Description	Sample SFMC Channel DB	E to extract email campaign	event	Attributes		

Typically, the URL will have the following format:

https://mc.s11.exacttarget.com/cloud/#app/Automation%20Studio/AutomationStudioFuel3/%23ActivityModal /73/11bee2de-630e-41b0-a98f-355af9d5bda8

The text highlighted in yellow is the assigned Data Extract activity ID.

3. Paste the value into Tracking extract activity ID field in your SFMC channel configuration settings.

Tracking extract activity ID: 11bee2de-630e-41b0-a98f-355af9d5bda8	ID of tracking data extract activity configured in Salesforce Marketing Cloud
--	---

5.9.3.3 Creating File Transfer Activity

This section describes how to create the File Transfer Activity within SFMC automation studio, which is used to initiate the file move from the Safehouse. Please follow the steps below:

- 1. Open the web browser and login to your SFMC account.
- 2. On Salesforce Marketing Cloud main page, hover over on *Journey Builder* menu and click *Automation Studio*



3. To create new *File Transfer* activity, click *Create Activity* located at the upper right corner of the Activities tab.



4. Select File Transfer activity and click Next.

		Create New Activity			
vivity Types (7) Search	٥	X			
Send Email Use this activity to Initia message. You can send automation alone, or p with oth	late an email f the email in an put it in sequence	Import File Use this activity to use the informati from an outside file to update a sub list or data extension. You provide in	on scriber fo	The Transfer Jse this activity to upload a file to or lownload à file from a transfer location hat you specify. The file transfer activit	^
Data Extract Use this activity to creas Information for you to application. This activit	ate a file of use outside of the ty can also be used	SQL Query Use this activity to retrieve data exter your criteria and include that information	nsion es	Filter Sea this activity to apply the logic of a lata filter to a subscriber list you select to reate a group of subscribers who sa	<
Script Use this activity to acco which you would use so JavaScript In an email of	omplish any task for verver-side or landing page.				
el					

5. In Properties tab, provide the required text field values for the File Transfer activity

	Create	New File Transfer Activity		×
PROPERTIES	CONFIGURATION SUMMARY			
Name*	SFMC_Channel_DE	Description	Add description here	
External Key	SFMC_Channel_DE			
File Action*	Manage File Undp and/or decrypt a file found in the Mariseting Clouds Enhanced FTP directory Move a File from Safehouse Transfer file(s) from the Mariseting Clouds secure file storage location to a selected FTP location	5		
Cancel			В	ack Next

- a. **Name*** Descriptive name of the File Transfer activity
- b. Description Additional information about the File Transfer activity
- c. **External Key*** Uniquely identifiable key name used to run File Transfer activity via RPI. *NOTE: Spaces in key name are not allowed.*
- d. **File Action*** Must always be set to *Move a File From Safehouse*.

- 6. Click *Next*. In *Configuration* tab, configure the following.
 - a. File Naming Pattern* A file name used when the exported file generated from a safe house to the destination SFTP folder. The file name has the following naming pattern: *RPI_EVENT_EXTRACT_<Channel Name>.zip* The *<Channel Name>* suffix should match the Salesforce Marketing Cloud channel name configured in RPI. If one or more spaces in the channel name itself, it should be replaced by (_) underscore character when providing the file name. For example, if channel name is SFMC Email DE, file name must be set to *RPI_EVENT_EXTRACT_SFMC_Email_DE.zip*
 - b. Destination* The SFTP export destination folder where the file is saved.
 - c. **Transfer Settings*** Must always be set to *Encrypt File* and *PGP*.
 - d. Customer Public Key Customer's PGP public encryption key.

Create New File Transfer Activity ×						
PROPERTIES CONFIG	URATION SUMMARY					
Move a File From Safehouse	2					
Flie Naming Pattern*	RPI_EVENT_EXTRACT_SFMC_Channel_DE_zlp Wildcard specifiers: 96 96 Year 96 96, 96 96 Month 96 96, 96 96 Day 96 96	Use local time zone setting ①				
Destination*	ExactTarget Enhanced FTP Export +					
Transfer Settings	✓ Encrypt File					
	 PGP Use Pretty Good Privacy encryption to secure data in the file(s). 					
	GPG Use Gnu Privacy Guard encryption to secure data in the file(s).					
Customer Public Key	RPI_SFMC_Test3 -					
Cancel		Back Next				

7. Click Next. In the Summary tab, click Finish to create the File Transfer Activity.

		Cre	eate New File Transf	er Activity	\$
PROPERTIES	CONFIGURATION SUMMARY				
Properties Name External Key Description	SEMC_Channel_DE SFMC_Channel_DE	Edit	Configuration File Naming Pattern Destination	RPL_EVENT_EXTRACT_SPMC_Channel_DE.rp ExactTarget Enhanced FTP Export	Edit
File Action	Move a File From Safehouse		Transfer Settings Public Key	Encrypt File PSP RPI_SFMC_Text3	
ancel					Back Finish

8. The *External Key* in *File Transfer* activity will be used as *File transfer activity name* in SFMC channel configuration in RPI as shown below:

File transfer activity name:	SFMC_Channel_DE	The name of file transfer activity configured in Salesforce Marketing Cloud

5.9.4 Configuring PGP Encryption for Data Extension Extracts

These sections describe the steps required to configure PGP encryption for the data extracts used to create the data extension.

5.9.4.1 Creating File Transfer Activity

This section describes how to create the File Transfer Activity within SFMC automation studio, which will be used to decrypt the file after landing in the SFMC FTP Import folder. Please follow the steps below:

- 9. Open the web browser and login to your SFMC account.
- 10. On Salesforce Marketing Cloud main page, hover over on *Journey Builder* menu and click *Automation Studio*



11. To create new *File Transfer* activity, click *Create Activity* located at the upper right corner of the Activities tab.

Feedback	٩	RedPoint Global 🔻	9 i		Ŧ
				Create Activity	

12. Select File Transfer activity and click Next.



13. In **Properties** tab, provide the required text field values for the File Transfer activity

	Edi	t File Transfer Activity		×		
PROPERTIES	CONFIGURATION SUMMARY					
Name*	RPI_Test_FTA	Description	Add description here			
External Key	RPI_Test_FTA					
File Action"						
Cancel				Back Next		

- a. Name* Descriptive name of the File Transfer activity
- b. Description Additional information about the File Transfer activity
- c. **External Key*** Uniquely identifiable key name used to run File Transfer activity via RPI. *NOTE: Spaces in key name are not allowed.*
- d. File Action* Must always be set to Manage File

- 14. Click Next. In Configuration tab, configure the following.
 - *a.* **File Naming Pattern*** this is used to find the PGP file created by RPI. It must have the following format: <external-key-name>_%%Year%%%%Month%%%%Day%%.txt.pgp

For example, if the external key configured in step 13c is called "RPI_Test_FTA", the file name convention would be RPI_Test_FTA_%%Year%%%Month%%%%Day%%.txt.ppp

%%Year%% = wildcard for year the file was created %%Month%% = wildcard for month the file was created %%Day%% = wildcard for day the file was created

- b. Source File Location* leave it as ExactTarget Enhanced FTP
- c. File Management Actions enable the Decrypt file option
- d. Customer Public Key Customer's PGP public encryption key

Edit File Transfer Activity ×							
PROPERTIES CONFIC	PROPERTIES CONFIGURATION SUMMARY						
Manage File							
File Naming Pattern* 🕚	RPI_Test_FTA_%6%6%rem%6%6%6%6%nonth%6%6%6%bay%6%txt.pgp Use local time zone setting ① Wildcard specifier: %6%6%rem%6%, %6%60ay%6% Use local time zone setting ①						
Source File Location*	ExactTarget Enhanced FTP						
File Management Actions	Unzip compressed file						
	✓ Decrypt file						
Customer Private Key	Marketing Cloud Key - Learn More						
Qualifications	Skip if last transfer occurred less than the following number of hours ago: 0 🗧						
	Fail the transfer if file is older than the following number of hours:						
	System buffer (hours):						
Cancel		Back Next					

15. Click Next. In the Summary tab, click Finish to create the File Transfer Activity.

16. The *External Key* in *File Transfer* activity will be used as *File transfer activity name* in SFMC channel configuration in RPI as shown below:

File Encryption Options						
Encrypt exported file:		If set, the exported file will be encrypted				
Encryption type:	Pretty Good Privacy (PGP)	The type of encryption that will be used to encrypt the file				
Encryption public key:	Public Key - ET public key.txt	The public key used to encrypt exported file				
File transfer activity name:	RPI_Test_FTA	The name of file transfer activity configured in Salesforce Marketing Cloud				

5.9.5 Enabling OAuth Authentication for SFMC

- 1. Open the web browser and login to your SFMC account.
- 2. From the Settings menu, click Setup



3. On Setup tab, expand Apps under Platform Tools group setting. Click Installed Packages.

Setup		
Q Quick Find	Installed Packages	1175544847 ANNO11117 - MASSIN (11117)
Setup Home	2 items • Sorted by Package Name	
Setup Assistant	PACKAGE NAME	DESCRIPTION
Administration	API	
> Users	API New	Test clientId authentication
 Data Management 		
FTP Accounts		
File Locations		
Key Management		
Parameter Management		
Platform Tools		
√ Apps		
Salesforce Integration		
Installed Packages		

4. To create new OAuth package, Click the "New" button.

Installed Packages All Packages 2 items • Sorted by Package Name		New
PACKAGE NAME	DESCRIPTION	INSTALL DATE

5. Provide the name and description of the new OAuth package. Click "Save" button:

	New Package Details	
*Name		
Description		
Cancel		Save

6. Below is an example of the Details Summary for a newly created OAuth package.

DETAILS ACCESS								
Summary								
Name API Nev	N			Description Test clientId authentication				
Type Custom	I S	tatus 1 Development		Source Account Packa RedPoint Global 617da2		Package Id 617da2d0-35c8-4670-808c-49dbaaafo	c9a8	JWT Signing Secret Xw3AUVHEQqk1CTTKZSPb9uSISuPx 🗿
Com	ponents							
API	Integration							
Clie	ent Id	Clie	ent Secret		Integra	tion Type 🚯		
Aut ha: RE	thentication Ba	ase URI () Harðt hudst a yjnú kna ()	qauturataing	sobacapia carry (g)	SOA https	NP Base URI 🛛 🌒	.soap.marki	elingcloudapis con / 👩
Sco	ope							
	Access:		Offline Ac	ccess				
	Email:		Read, Wr	rite, Send				
	Documents and	I Images:	Read, Wr	rite				
	Automations:		Read, Wr	rite, Execute				
	Audiences:		Read, Wr	rite				
List and Subscribers: Read, W		Read, Wr	ead, Write					
	Marketing Cloud	Connect:	Read, Wr	nte				
	Data Extensions	5.	Read, Wr	nte				
File Locations: Read, Write								
	Collbooks:		Read, Wr	nte				
	CalluaUKS.		Read, De	nete, Opuale, Create				

7. Modify the default scope of the OAuth package by clicking the "Edit" button:



8. In the Edit dialog, select the appropriate API permissions for the OAuth package. Click the "Save" button:

		Edit			
	Set Serve	r-to-Server I	Properties		
Scope					
CHANNELS					
Email Read Write Send 	OTT Read Send	Push Read Write Send	SMS Read Write Send	Social Read Write Publish	
Web Read Write Publish					
ASSETS					
Documents and Images Read Write	Saved Content Read Write				
AUTOMATION					
Automations Read Write Execute 	Journeys Read Write Execute Activate/Stop				
Cancel					Save

9. Below are the default OAuth scopes, required by Redpoint Interaction:

Scope	
Access:	Offline Access
Email:	Read, Write, Send
Documents and Images:	Read, Write
Automations:	Read, Write, Execute
Audiences:	Read, Write
List and Subscribers:	Read, Write
Marketing Cloud Connect:	Read, Write
Data Extensions:	Read, Write
File Locations:	Read, Write
Tracking Events:	Read, Write
Callbacks:	Read, Delete, Update, Create

10. Within the configuration of the SFMC Email and Data Transfer channels, enable "Use OAuth authentication" and enter the Client Id and Client secret values, as shown on the Details Summary page in the SFMC portal.

Use OAuth authentication:	If set, OAuth authentication used to connect Salesforce Marketing Cloud service
Client ID:	Client ID used to connect Salesforce Marketing Cloud service
Client secret:	Client secret used to connect Salesforce Marketing Cloud service

5.10 DotDigital Account Configuration

5.10.1 Creating a Free DotDigital Account

This section describes how create a free DotDigital account (if required). Please follow the steps below:

- 1. Browse to the DotDigital website: <u>https://www.dotDigital.com/</u>.
- 2. To acquire a free trial account, click Free Trial.
- 3. Complete the form and click Submit.
- 4. An email will be sent to your email inbox for verification.

5.10.2 Create API user

This section describes how to create an API user to connect to the DotDigital service. Please follow the steps below:

- 1. Open the DotDigital portal at https://login.dotdigital.com/
- 2. Click the lower leftmost icon, then choose Access.



3. Go to the API users tab, then click New User.

۲	Dashboard Campaigns • Automation • Contacts • Reporting •
×	Access
	Access API users Transactional email users
X	(1) Your API endpoint is https://r3-api.dotmailer.com.
	To start using the API you'll need to create an API managed user. You can see the API methods
R,	New user Delete Search Q
	No API users found.

4. Complete the form, and press Save when done.



5.10.3 Setting Up External Dynamic Content

This section describes how to set up a public facing URL to use for RPI dynamic content. Please follow the steps below:

- 1. In Windows Explorer, open the RPI deployment files folder. Go to the Plugin Services folder.
- 2. Copy the DotDigitalEdcService folder, then paste it into the 'C:\inetpub' folder.
- 3. Open IIS.
- 4. Right-click Sites, the select Add Web Site.
- 5. Complete the details as shown below. You may need to use another port number if port 80 is already in use.

dd Website			?	X
Site name:		Application pool:		
DotMailerEdcService		DotMailerEdcService Selec	:t	
Content Directory				
Physical path:				
C:\inetpub\DotMailer	EdcService			
Pass-through authent	ication			
Connect as T	est Settings			
connect usin	cst settings			
Binding				
Type:	IP address:	Port:		
http ~	All Unassign	ed ~ 80		
Hort name	L			
Tiost name.		Add to Hosts file		
Evene alex verse contex	a com or more			
Example: www.contos		centry.contoso.com		
🗹 Start Website immedi	ately			

6. Press OK to save the new website.

5.10.4 Configure External Content Shared Folder

This section describes how to configure an external content shared folder for use by DotDigital. Please follow the steps below:

- 1. Login to RPI Server Workbench.
- 2. In the Configuration tab, locate the DotmailerExternalDynamicContentSharedFolderPath setting and specify a shared folder path.
- 3. Save your change.
5.11 Listrak Account Configuration

This section describes how to create configure Listrak for use with RPI. Please follow the steps below:

- 1. Log into the Listrak portal at https://admin.listrak.com/Account/Login.aspx.
- 2. Navigate to Manage > Integrations

>	Home	Authoring	Contacts	Manage	Analytics	Solutions	Support
				Lists		>	
	Integ	ratior	IS	Campaign I Integration Accounts	Manager s	>	

- 3. In the New Integration form, Complete the following details:
 - Integration Name
 - Integration Type: set to 'API: Email'
 - Access Levels: check List, Contact and Message
 - Add your machine IP address to the IP Address Whitelist
 - Copy the Client ID and Client Secret to a text file

Integration Name	IP Address Whitelist		
Ny integration Integration Type API: Email	When enabled, all IP addresses below. One IP address is require allowed per integration. IP addre leftmost octets of their compon	will be blocked from API access except t d per integration, with a maximum of IO ess ranges must have matching values fo ent addresses.	hose listed IP addresses or the two
C Enable Whitelisting	IP Address Type		
Access Levels	Single IP Address O Wild	card Match 🔘 IP Address Range	٦
V List V Message Contact Event	Ex 123.45.67.89	ADD	
Segmentation Report	IP ADDRESS	TYPE	-
Please ensure secure storage of these integration credentials.	123.45.67.89	Single	,
Client ID			
······ 2			
Client Secret			

4. Save your changes.

5.12 Mailchimp Account Configuration

5.12.1 Create a Mailchimp Account

This section describes how create an account in Mailchimp. Please follow the steps below:

- 1. Visit the Mailchimp sign-up page by navigating to https://login.mailchimp.com/signup in a web browser.
- 2. Provide your email address, username, and password. Click Get Started.

E	Get started with a free account Find your people. Engage your customers. Build your brand. Do it all with Mailchimp's marketing tools. Already have an account? Log in Email
	Username
	Password 👁 Show
	One lowercase character One special character One uppercase character One number One number

- 3. A confirmation message will be displayed. Check your mail inbox for the account activation email to complete your account setup.
- 4. Open the account activation email and click Activate Account.



5. In the Confirmation screen, check the **I'm not a robot** checkbox, and click **Confirm Signup**.



5.12.2 Provision a New API Key

This section describes how to create an API user to connect to Mailchimp service. Please follow the steps below:

- 1. In a web browser, navigate to https://login.mailchimp.com/ to log in.
- 2. Enter username and password and click the Login button.
- 3. Under account profile, navigate to Account > Extras and select API Keys from the dropdown list.



	Account Extras Menu		
Overview Settings - Billing	• Extras •	Integrations	Transactional
Forover Free plan	Rewards		
	API keys	API keys	
Subscribers			Ł

4. Click the Create a key button to create the new API key.

5.12.3 Configuring the Service URL

This section describes how to setup the service URL in the RPI Mailchimp channel configuration via, if the MailChimp account was provision outside the United States region. Please follow the steps below.

1. When creating new MailChimp channel, the default service URL is <u>https://us7.api.mailchimp.com/3.0/</u> as shown below.

Service Credentials		
Service URL:	https://us7.api.mailchimp.com/3.0/	
Username:		
Password:		

2. You must change the first three characters that appear in the host name of the service URL to the last three characters that appear in the API key.

Service Credentials		
Service URL:	https://us7.api.mailchimp.com/3.0/	;
Username:		
Password:		

API key		
b2dt	91f-u	s7

5.12.4 Re-subscribe Contacts

This section describes how to re-subscribe contact(s) via RPI when using Mailchimp. Please follow the steps below:

1. In the MailChimp channel configuration interface, click Choose contacts to re-subscribe to this channel.



- 2. Add one or more email addresses and click **OK**.
- 3. If re-subscription was successful, a confirmation email will be sent to your email inbox.
- 4. Open the confirmation email, and click the Yes, subscribe me to this list button.



5.13 Cordial Account Configuration

5.13.1 Sign Into Cordial Portal

This section describes how to sign into the Cordial portal. Please follow the steps below:

- 1. In a web browser, navigate to <u>https://admin.cordial.io/#login</u>.
- 2. Sign in by providing your Cordial credentials. Click Log me in.

	Welcome			
4	Email			
	Password			
Forgo	ot password? Log me in			
© 2021 Cordial Inc.				

3. Once you have successfully logged on, you will be redirected to the Cordial dashboard.

cordiał			0 1	dev@redpointglobal.com logged into Redpoint Global POC 👻
🖬 Dashboard				
🖬 Messages 👻	Activity - Month to Date		Contacts	
0 Message Automation	,			
4> Content 👻	Total Volume Sending	Campaigns Sent	Contact	S
📽 Contacts 👻	42	0	37	
🎟 Data 👻				
🗠 Analytics 👻	Current Automated Sending		Current Manual Sending	
	166	Paused	Processing 0	O 0
	Email			
	Email Performance Today Past 7 days	Past 30 days Current year to date		
		- 100%		0%
	Sent 4	Delivered 4 Total	Bounced	0 Soft 0 Hard
		0% ctos		
	0% 0 Total	0 Total O Unique		0% 0 Total
		0% Click R	late	

5.13.2 Provision New API key

1. In the Cordial portal, navigate to **Administration** > **API Keys**. You can find this option by clicking on your username.

0	dev@redpointglobal.com logged into Redpoint Global POC 👻
Account: Redpoint Global POC Redpoint Global POC	dev@redpointglobal.com Account & Password Logout Administration Users Roles and Permissions
	API Keys Account Settings Account Transports Marketplace

2. Click **New** to add a new API key.

API Keys 3 total				0 -
	Name 🔶	API Key) Owner	¢
~	redpoint_poc	Sed81145e720771e427EdD5-haarkUF35180.jrl2ab/SF7HNbE7C2Ub0 4	dev@redpointglobal.com	
~	manila-dev-qa	Shilasa Si Bali Walio at Sin Bali ada 20.6	dev@redpointglobal.com	
v	Gulla_Test	898884933844830325010608370/6874049940271548	dev@redpointglobal.com	
Showing 1 to 3 of 3 entrie	s		< Previous 1	Next >

3. Provide a name for the API key and one or more the IP addresses that can access the API key. Click **Generate Key**.

API Key		
Create New API Key		
* API key name		
IP whitelist	Description:	×
	IP Address:	
	+ IP Address	
	Generate Key Cancel	

4. The API key will be used in Redpoint Interaction when setting up the Cordial channel.

Service Credentials		
Service URL:	https://api.cordial.io	API service URL used to connect to Cordial service
API key:		API Key used when connecting to Cordial

5.13.3 Enable Google Cloud services

1. In the Cordial portal, navigate to **Administration** > **Marketplace**. You can find this option by clicking on your username.

Account: Redpoint Global POC	
Submit Logou Submit Logou Admin Users Roles API Ke Accou Accou	dpointglobal.com nt & Password t stration and Permissions ys nt Settings nt Transports tplace

2. Look for Google Cloud and click **Enable**.

Google Cloud	2
Your Google Cloud Storage is connected to your Cordial account	
Bucket name	
250 character limit	
Bucket description RPI development	
250 character limit	
Upload key file	UPLOAD FILE Q
This is the json file that should be downloaded from your google cloud storage account Learn more	
(Test Connection	
Cancel Delete bucket	Save

3. Provide valid entries of Google Cloud service and click **Save**.

5.14 LuxSci Account Configuration

5.14.1 Create API Integration

- 1. In a web browser, navigate to <u>https://luxsci.com/perl/member/members.pl</u>.
- 2. Log into your account as an account administrator.
- 3. Navigate to "Account Administration".
- 4. Open "Account Settings > API".

Account Administration		
Administration Home		
🌮 Account Setup Wizards		
Account Settings		
General Settings		
Security		
🖂 Email		
DKIM		
🏷 Default Tags		
s. API		

- 5. Click "Add an API Integration".
 - a. Enter a name for the Integration
 - b. Select a "scope"
 - c. Click "Create Integration"

Add an API Integration				
Name:	Name for your API Integration. This is just for your reference.			
	rpidev-user			
Scope:	Scope of this Integration User (explicit login)			

5.14.2 Retrieve API Integration Keys

- 11. In a web browser, navigate to https://luxsci.com/perl/member/members.pl.
- 12. Log into your account as an account administrator.
- 13. Navigate to "Account Administration".
- 14. Open "Account Settings > API".
- 15. Locate the API Integration.
- 16. Click on the Pencil icon to view/edit the API Integration details.
- 17. Under Access Controls, ensure the following settings are checked:
 - a. View Reports
 - b. Read access
 - c. Write access
 - d. SMTP/API Templates
 - e. Sending
 - f. Suppression

EDIT API INTE	GRATION	×
API Name:	QA	
Secret Key:	Show Key	_
Public Token:	dynapwA+19t	
API Host:	rest.luxsci.com	
Enable?	YES 🗸	
Scope:	User (explicit login) 🗸	_
Access Controls:	User-Level Command Access User General: Single Sign-On View Reports User Settings: Read access Write access Change passwords Email: Forwarding Auto-Responders SMTP/API Templates Sending Sending Suppression	

18. Save the API Host, Public Token, and Secret Key, as you will need this to configure the LuxSci channel in RPI.

NOTE: The default endpoint host for LuxSci is **rest.luxsci.com**, which is shared resource for pooling of email activity by multiple LuxSci clients. However, if you are using a dedicated server, your host name may be different. The above screenshot will provide the host name to configure in the RPI channel.

5.14.3 Enable Event Tracking

- 19. In a web browser, navigate to <u>https://luxsci.com/perl/member/members.pl</u>.
- 20. Log into your account as an account administrator.
- 21. Navigate to "Account Administration".
- 22. Open "Account Settings > Email Settings".
- 23. Toggle the following settings to "ON"
 - a. Bounce Processing
 - b. Open Tracking
 - c. URL Click Tracking

Workspaces Account + Email + Apps + Help + Logou	t				
You have not yet enabled two-factor auther Administrative logins need extra protection.	ntication.				Update Your Settings
		Admin Wizards	Users Aliases Domains	Private Labeling Reports :	Bupport Tickets
ACCOUNT ADMINISTRATION	ACCOUNT SETTINGS - EMAIL				
Administration Home Account Setup Wizards	Save Changes				
Account Settings	Default WebMail Signature	C Show Default Signature Options			
General Settings	HIPAA Certification Seals in WebMail	OFF Hide the LuxSci HIPAA-Certification	n Seal from end users		
Email Settings O Email Suppression	Email Forwarding & Filtering	Which users are permitted to configure use	r email forwarding & filtering se	ttings?	
🔀 Email DKIM		Restriction Level Normal Use	rs Domain Administrators	Account Administrators	
🔊 Default Tags			*	*	
🖾 API		OFF	*	*	
		OFF	0	*	
	Bounce Processing	Enable bounce processing of all e	mail sent by all users. <u>More details</u>		
		Note: when this feature is enabled, boun	ces will no longer return to the send	der. Instead, they will be inges	ted by the delivery status tracking system and show up
	Open Tracking	ON Enable email open tracking for all	HTML email messages sent (via SI	MTP, WebMail, and API) from	this account. <u>More details</u> .
	URL Click Tracking	Enable URL click tracking for all H	TML email messages sent (via SM	TP, WebMail, and API) from th	is account. More details.

5.14.4 Enable SMTP Header Tracking

- 24. In a web browser, navigate to https://luxsci.com/perl/member/members.pl.
- 25. Log into your account as an account administrator.
- 26. Navigate to "Account Administration".
- 27. Open "Account Settings > Email Settings".
- 28. In the SMTP Header Tracking setting, set the following values:
 - a. Header 1: chid
 - b. Header 2: leave blank
 - c. Header 3: leave blank

Note: be sure to update both columns with the same value. This will tag the outbound sends with the channelexecutionid_offertemplateintanceid value and allow the event data to be tracked back to a specific send.

SMTP Header Tracking	Track the contents of up to three specific email headers from sent email messages for the purposes of fine-grained email reporting and tracking.			
	Header 1	chid	chid	
	Header 2	Header Name	User-Friendly Name	
	Header 3	Header Name	User-Friendly Name	

NOTE: Starting with RPI v6.6, header values can be configured within the LuxSci channel. The values configured in the channel <u>must match</u> the values configured in the SMTP Header Tracking section.

5.15 Paubox Account Configuration

5.15.1 Retrieve the Host URL

- 1. On your web browser, navigate to https://docs.paubox.com/docs/paubox_email_api/introduction/
- 2. Under Base URL section, copy the shown URL, eg <u>https://api.paubox.net/v1</u>. This URL will be used to configure the Host in the Paubox channel configuration within RPI.

ntroduction
hese are the raw API docs if you want to get creative on your own. If you're unsure where to start, visit our Qui tart Guide to get setup.
ase URL
<pre>ittps://api.paubox.net/v1/<username></username></pre>

5.15.2 Retrieve API Username and API Key

- 1. On your web browser and navigate to https://www.paubox.com/ and login into your account.
- 2. Under "Paubox Email API" click on the "Settings" link:



3. The Settings page will display the verified domains and corresponding Endpoint Username. On the right side of your configured domain, click Domain Settings setup icon:



4. Under "API Keys" section, the existing keys will display with only an API Key prefix. Click "New API Key" to generate a new API Key to copy and use within the Paubox channel configuration.

5.16 Amazon Simple Email Service (SES) Account Configuration

This section describes on how to configure Amazon SES and assumes the AWS access keys have been obtained, which include the access key ID and secret key.

5.16.1 How to set up configuration set

Amazon SES configuration set allows event publishing to track email activities

- 1. On your web browser, login to AWS console service portal https://console.aws.amazon.com/
- 2. Navigate to Amazon Simple Email Service:

aws Services ▼	Q Search for services, features, blogs, docs, and more [Alt+S]	AWSI		
Amazon SES ×	Amazon SES > Account dashboard			
Account dashboard Reputation metrics	Account dashboard Info			
 Configuration Verified identities Configuration sets 	Your Amazon SES account is in the sandbox in Asia Pacific (Singapore) In a sandbox environment, you can use all of the features offered by Amazon SES; however, certain sending limits and restrictions apply. When submit a request for production access. Learn more 🖸	you'n		
Dedicated IPs Email templates Suppression list. New	Sending limits Info			
Cross-account notifications New	Daily sending quota Maximum send rate 200 emails per 24-hour period 1 email per second			
Use the classic console	Learn more about monitoring your Amazon SES sending quotas 🗹			

3. Click Configuration > Configuration sets in left navigation bar:



4. Click the "Create set" button to enter the configuration:



5. Enter the Configuration set name and click the "Create set" button:

Amazon SES > Configuration: Configuration sets > Create set
Create set
A configuration set is a group of rules you can apply to the messages you send through Amazon SES.
General details
Configuration set name
DemoConfigurationSet
64 character limit. Only letters, numbers, underscores, and dashes are permitted.
Sending IP pool Info
When you send email using this configuration (config) set, messages will be sent from the dedicated IPs in the assigned pool.
default 🗸
Use your own redirect domain to handle open and click tracking for this configuration set. To enable tracking, you must add an event
destination.
Use a custom redirect domain
Advanced delivery options

6. Once redirected to the created configuration set, click on the "Event destinations" tab:



7. Click Add destination:

Amozon SES Configuration: Configuration sets DemoConfigurationSet	
DemoConfigurationSet	Delete Disable sending
Overview Event destinations	
All destinations (0) Info	Delete Add destination
Q Search all destinations	٥
Name ▲ Destination ⊽ Event types	
No destinations No destinations to display for this configurati Add destination	on set.

8. Select the following event types and click Next:

Select event types
Email sending events are metrics relating to your sending activity that you can measure using Amazon SES. Choose which types of sending events you'd like Amazon SES to publish to your event destination.
Event types Deselect all
Sending and delivery
Sends The call was successful and Amazon SES will attempt to deliver the message to the recipient's mail server.
Rendering failures The message wasn't sent because of a template rendering issue.
Rejects Amazon SES accepted the message, but determined that it contained a virus and didn't attempt to deliver it to the recipient's mail server.
Deliveries Amazon SES successfully delivered the message to the recipient's mail server.
Hard bounces The recipient's mail server permanently rejected the message.
Complaints The message was successfully delivered to the recipient's mail server, but the recipient marked it as spam.
Delivery delays The message couldn't be delivered to the recipient's mail server because a temporary issue occurred.
Subscriptions The email was successfully delivered to the recipient. The recipient updated the subscription preferences by clicking List-Unsubscribe header or via the Unsubscribe webpage linked to the email footer.
Open and click tracking info Measure subscriber engagement by tracking open and click events for messages sent using this configuration set. Opens Clicks
Tracking options To use a custom redirect domain, you must edit your tracking options at the configuration set level.
Cancel Next

9. Select the "Amazon SNS" destination type and enter and event destination name and then click the "Create SNS topic" button:

pecify destination	
event destination is an AWS service to which email sending events can be published. Choosin pends on the level of detail you want to capture and how you want to receive the data.	g the appropriate destination
Destination options	
Destination type Info	
CloudWatch Amazon Kinesis Amazon Pinpoint Data Firehose	Amazon SNS
Name	
DemoEventDestination	
Event publishing Amazon SES will publish the selected events to this event destination.	
Amazon Simple Notification Service (SNS) topic In Amazon SNS, a topic is a logical access point that acts as a communication channel.	Create SNS topic
SNS topic Amazon SES will notify the selected topic when a message produces any of the chosen event types.	
Select a topic	
Cancel	Previous Next

10. Enter Topic name and click "Create topic" button:

Create SNS topic	×
The topic name you specify will be used to create Amazon Resource Name (ARN), a unique identifier for your Amazon SNS topic.	
Topic name	_
DemoTopicName	
256 character limit. Only letters, numbers, underscores, and dashes are permitted.	
Display name - optional A display name is required if you intend to receive notifications through SMS.	
Enter a display name	
100 character limit.	
Cancel Create topic	c

11. Select the newly created AWS SNS topic and click the "Next" button:

Destination optio	15	
Destination type Info		
 Amazon CloudWatch 	 Amazon Kinesis Data Firehose Amazon Pinpoint 	Amazon SNS
Name		
DemoEventDestination		
Name can include letters (A	Z), numbers (0-9), dashes (-), and hyphens (). No spaces.	
Name can include letters (A- Event publishing Amazon SES will publish the Cabled	T), numbers (0-9), dashes (-), and hyphens (—). No spaces. selected events to this event destination.]
Name can include letters (A- Event publishing Amazon SES will publish the Enabled Amazon Simple N in Amazon SNS, a topic is a 1	T) Z), numbers (0-9), dashes (-), and hyphens (-). No spaces. e selected events to this event destination. otification Service (SNS) topic ogical access point that acts as a communication channel.	Create SNS topic

12. Review your event destination and click the "Add destination" button:

Review			
Step 1: Select event types			Edit
Event types			
Sending and delivery Sends, Rendering failures, Rejects, Deliveries, Hard bounces, Comp	laints, Delivery	delays, Subscript	ions, Opens, Clicks
Step 2: Specify event destination			Edit
Destination options			
Destination type			
Amazon SNS			
Name			
DemoEventDestination			
Event publishing			
Enabled			
Amazon Simple Notification Service (SNS) topic			
SNS topic			
DemoTopicName			
	Cancel	Previous	Add destination

13. When redirected to the newly created event destination, hover over Destination Type and click on the "Amazon SNS" link:

Amazon SES > Configuration: Configuration	ition sets > DemoConfigurationSet >	DemoEventDestination Delete Disable
Summary for DemoEventDest	ination	
Name DemoEventDestination	Destination type Amazon SNS 🔽	Event publishing
Event types		Edit
Event types Hard bounces, Clicks, Complaints, Deliv	eries, Delivery delays, Opens, Rejects, Rei	idering failures, Sends, Subscriptions
Amazon Simple Notification S	Service (SNS) topic	Edit
SNS topic DemoTopicName		

14. Click on the newly created topic name:

Amazon SNS > Topics	
Topics (5)	Edit Delete Publish message Create topic
Q Search	< 1 > @
Name	▲ Type ⊽ ARN ⊽
O DemoTopicName	Standard arm:aws:sns:ap-southeast- 1:656810741044:DemoTopicName

15. In the Subscriptions panel, click the "Create subscription" button:

Amazon SNS > Topics > DemoTopicName			
DemoTopicName	Edit Delete Publish message		
Details			
Name DemoTopicName	-		
APN	Topic owner		
am:aws:sns:ap-southeast-	656810741044		
1:656810741044:DemoTopicName			
Туре			
Standard			
Subscriptions Access policy Delivery retry p	olicy (HTTP/S) Delivery status logging		
Encryption Tags			
Subscriptions (0)			
Edit Doloto Domunit confirmation	Confirm subscription		
Eur	commissioscription		
Create subscription			

16. Select HTTPS as the protocol and enter the endpoint to the Amazon SES Callback Service server:

eate subscription		
Details		
lopic ARN		
Q arn:aws:sns:ap-southeast-1:656810741044:DemoTopicName	×	
Protocol The type of endpoint to subscribe		
HTTPS	▼	
Endpoint Web server that can receive notifications from Amazon SNS.		
https://www.example.com/callbackservice		
Enable raw message delivery		

17. Click the "Create Subscription" button, which will redirect the page to the Subscriptions screen. The status for that subscription will show as "Pending confirmation". This subscription will need to be confirmed before AWS will begin posting the event.

Amazon SNS > Topics > DemoTopicName > Subscri Subscription: 27423039-257b Edit Delete	ption: 27423039-257b-4da6-9c7e-80955c743635 -4da6-9c7e-80955c743635
Details	
ARN am:aws:sns:ap-southeast- 1:656810741044:DemoTopicName:27423039-257b- 4da6-9c7e-80955c743635 Endpoint https://www.example.com/callbackservice Topic DemoTopicName	Status Pending confirmation Protocol HTTPS Raw message delivery Disabled

18. To confirm the subscription, open a separate browser tab and navigate to AWS SES callback service configured for this instance, formatted as: http://<server name>/status/<RPI Client ID>. Under the "EmailMetricsLocationStatus" section, copy the "AWS Subscribe URL" to another browser tab, which will confirm the subscription for the AWS SNS Topic event publishing.

5.16.2 Amazon SES Performance Limitations

During outbound fulfillment, the number of recipients sent per request will depend on the offer purpose type:

Email Offer Purpose	Recipients per Batch	Number Of API Calls	API Call Completion Time
Marketing	1	1	350 milliseconds
Operational	50	1	350 milliseconds

6 SMS Provider Configuration

6.1 Amazon Pinpoint SMS Configuration

This section describes how to create and configure Amazon Pinpoint SMS project in Amazon Web Services (AWS). Assuming you have already an Amazon Web Services account, please follow the steps below.

6.1.1 Creating new Amazon Pinpoint SMS project

- 1. Log into to your Amazon Web Services management console by navigating to https://console.aws.amazon.com/iam/
- 2. Select IAM User option and provide your Account ID or account alias. Click Next.

 Amazon Web Services Sign-In × + → C	i=https%3A%2F%2Fconsole.aws.amazon.com%2Fconsole%2Fhome
	aws
	Sign in
	Root user Account owner that performs tasks requiring unrestricted access. Learn more
	IAM user User within an account that performs daily tasks. Learn more
	Account ID (12 digits) or account alias
	Next
	By continuing, you agree to the AWS Customer Agreement or other agreement for AWS services, and the Privacy Notice. This site uses essential cookies. See our Cookie Notice for more information.
	New to AWS?

3. Provide your IAM username and password. Click Sign in.

aws				
Sign in as IAM user				
Account ID (12 digits) or account alias				
IAM user name				
Password				
Remember this account				
Sign in				
Sign in using root user email Forgot password?				

4. Once you have logged in successfully, you will be redirected to AWS management console. In the services search box, look for Amazon Pinpoint. Click Amazon Pinpoint.

aws Services	Q pinp	×
🧕 Resource Groups & Tag	Services (2) Features (1) Blogs (104) Documentation (1) Events (1)	Search results for 'pinp' Services Amazon Pinpoint Engage Users via Email, SMS, Push & Analytics Route 53 Scalable DNS and Domain Name Registration
		Features Contributor Insights Q CloudWatch feature

5. If you are using an existing Amazon Pinpoint project, proceed to step #9.

6. You will now be redirected to Amazon Pinpoint management console. To create new project, enter the project name and click **Create a project**.

Get started
To get started with Amazon Pinpoint, create a project.
Project name
Create a project

7. In the Configure features page, configure SMS. Click Configure button.

Configure features Choose a feature to add to your project. You can add more features later.		
Project features		
Messaging channels and response metrics		
Email Send personalized email messages to your anotomers. Me Configure	SMS Send SMS text messages from shared or reserved phone numbers. Inte Configure	Push notifications Send push notifications to users of your mobile apps. Inte Configure
Application analytics		
Mobile app analytics Track usage metrics for mobile applications. Infe	Web app analytics Track usage metrics for web-based applications. Info	
Configure	Configure	

8. Select *Enable the SMS channel for this project* option. You may leave other settings as it is. Click Save changes.



6.1.2 Enabling Amazon Pinpoint SMS on existing project

1. To enable Amazon Pinpoint SMS on existing Pinpoint project, select your Pinpoint project from the **All projects** list, as shown in the image below.



2. Expand Settings menu from the left pane and click SMS.

aws Services Q Search for services, features, blogs, docs, and more				
Pinpoint	×	③ Before you can send email, you have to verify an ema on the Settings > Email page.		
All projects		Pinpoint > All projects > MyAmplifyAppRPINotif-de		
MyAmplifyAppRPI dev	Notif-	MyAmplifyAppRPINotif-dev		
Analytics		Application analytics into		
Segments				
Campaigns				
Journeys		Last 30 days		
Test messaging		20 K		
Notifications				
 Settings 		15 K		
General settings	5			
Email		10К		
SMS				
Push notification	ns	5K		
Mobile app anal	ytics			
Web app analyt	ics	0		
Event stream				

3. In the Edit SMS general settings, select Enable the SMS channel for this project option. You may leave other settings as it is. Click **Save changes**.

Edit SMS
General settings
Enable the SMS channel for this project
▼ Account-level settings
The settings in this section apply to all SMS messages that you send from your AWS account, including messages that you send using other AWS
services.
Default message type
The type of messages you plan to send from this project. Info
O Transactional
Time-sensitive content, such as one-time passcodes.
 Promotional Non-critical content, such as marketing messages.
Account spending limit
The maximum amount of money, in USD, that you want to spend sending SMS messages each month. The limit for accounts in the sandbox is 1 (\$1.00). Info
20
The spend limit that you specify can't include decimals. The minimum value is 0, and the maximum value is 20.
(Optional) Account sender ID
The identity that appears on recipients' devices when they receive this message. Support varies by country or region. Info
Enter a valid sender ID
Your sender ID can contain up to 11 alphanumeric or hyphen (-) characters. It has to contain at least one letter, and it can't consist only of numbers. It has to start and end with with an alphanumeric character. Some countries and regions may have additional restrictions.
Cancel Save changes

6.1.3 Create Pinpoint import Segment ARN role

Please navigate and follow the steps provided the links below.

https://docs.aws.amazon.com/IAM/latest/UserGuide/id_roles_create_for-service.html

https://docs.aws.amazon.com/pinpoint/latest/developerguide/permissions-importsegment.html#permissions-import-segment-trustpolicy

The Pinpoint Segment ARN role name will be used in Redpoint Interaction (RPI) Amazon Pinpoint Email connector. The role must have required permission to access the Amazon S3 bucket folder.

Segment role ARN: Amazon Resource Name (ARN) used to authorize Pinpoint to access Amazon S3 bucket folder

6.1.4 Configure Amazon Kinesis for Event Data Processing

This section describes how to create and configure Amazon Kinesis in Amazon Web Services (AWS). Kinesis will be used to capture an event data for Pinpoint SMS (and Pinpoint Email if applicable). Assuming you have already an Amazon Web Services account, please follow the steps below.

6.1.4.1 Provisioning a new Amazon Kinesis Data Streams

1. In Amazon Kinesis left pane menu, click Data streams.

Amazon Kinesis $ imes$	Amazon Kinesis 🖒 Data streams			
Dashboard	New on-demand mode for Kinesis data streams On-demand mode eliminates the requirement to manually provision and scale your data streams. With on-demand mode, your data streams automatically scale their write capacity of up to 200 MiB/second. Learn more			
Data streams Delivery streams	Data streams (1) info Process data in real time Create a Firehose delivery stream Actions 🔻 Create data stream			
Analytics applications	Q, Find data streams < 1 > @			
AWS Glue Schema Registry	Name A Status V Capacity mode V Provisioned shards V Data retention period V Encryption Consumers with V enhanced fam-out			

- 2. Click Create data stream to create new data stream.
- 3. Enter the name of the data stream and select Provisioned option.

aws	Services	Q Search for services, features, blogs, docs, and	more [Alt+S]		
=	Amazon Kines	Amazon Kinesis > Data streams > Create data stream			
	Create	Create data stream Info			
	Data stro	Data stream configuration			
	Data strear	Data stream name			
	Enter nan	пе			
	Acceptable c	Acceptable characters are uppercase and lowercase letters, numbers, underscores, hyphens and periods.			
	Data stro	Data stream capacity Info			
	Capacity m	Capacity mode			
	 On-demand Use this mode when your data stream's throughput requirements are unpredictable and variable. With on- demand mode, your data stream's capacity scales automatically. 		• Provisioned Use provisioned mode when you can reliably estimate throughput requirements of your data stream. With provisioned mode, your data stream's capacity is fixed.		
	Provisioned The total cap capacity. 1 Minimum: 1,	Provisioned shards The total capacity of a stream is the sum of the capacities of its shards. Enter number of provisioned shards to see total data stream capacity. 1 Shard estimator Minimum: 1, Maximum available: 199, Account quota limit: 200. Request shard quota increase I			
	Total data s Shard capaci emits up to 2	Total data stream capacity Shard capacity is determined by the number of provisioned shards. Each shard ingests up to 1 MiB/second and 1,000 records/second and emits up to 2 MiB/second. If writes and reads exceed capacity, the application will receive throttles.			
	Write cap	acity	Read capacity		
	Maximum		Maximum		
	1 MiB/seco	nd and 1,000 records/second	2 MiB/second		

4. Click **Create** data stream

The total capacity of a stream is the sum of the capacities of its shards. Enter number of provisioned shards to see total data stream capacity.				
1 Shard estimator]			
Minimum: 1, Maximum available: 199, Account quota limit: 2	.00. Request shard quota increas	ie 🛂		
Total data stream capacity Shard capacity is determined by the number of provisioned shards. Each shard ingests up to 1 MiB/second and 1,000 records/second and emits up to 2 MiB/second. If writes and reads exceed capacity, the application will receive throttles.				
Write capacity	Read capacity			
Maximum	Maximum			
1 MiB/second and 1,000 records/second	2 MiB/second			
③ Provisioned mode has a fixed-throughput pricing model. See Kinesis pricing for Provisioned mode				
Data stream settings You can edit the settings after the data stream has been crea	ited and is in the active status.			
Setting	Value	Editable after creation		
Capacity mode	Provisioned	⊘ Yes		
Provisioned shards	1	⊘ Yes		
Data retention period	1 day	⊘ Yes		
Server-side encryption	Disabled	⊘ Yes		
Monitoring enhanced metrics	Disabled	⊘ Yes		
Tags	-	⊘ Yes		
		Cancel Create data stream		

5. In Amazon Kinesis left pane menu, click Delivery streams.

Amazon Kinesis $ imes$	O Introducing the sew Kinetis Data Firehouse console experience We've designed the Kinetis Data Frencise console to make it easier to use. The changes include a new layout for faster access to information. Let us know what you think.		
Dashboard	Amazon Kinesis 🖒 Delivery streams		
Data streams Delivery streams Analytics applications	Delivery streams (1) Image: Create delivery streams Q. Find delivery streams < 1 >	0	
▼ Resources	Name 🔺 Status 🔍 Creatio 🤍 Source 🔍 Data tr 🦞 Destina 🤍 Destination source	~	
What's new 🗵	○ pinpoint-kinesks-firehose ② Active May 04, 2 Direct PUT Not enabled Amazon 53 pinpoint-datastream-firehose ☑		

6. Click Create delivery stream to create new delivery stream.

aws	Services Q Search for services, features, blogs, docs, and more [Alt+S]
=	Amazon Kinesis > Delivery streams > Create delivery stream
	Create a delivery stream Info
	Amazon Kinesis Data Firehose: How it works
	Choose source and destination Specify the source and the destination for your delivery stream. You cannot change the source and destination of your delivery stream once it has been created.
	Source Info
	Amazon Kinesis Data Streams
	Destination Info
	Amazon S3
	Source settings
	Kinesis data stream
	arn:aws:kinesis:ap-southeast-1:656810741044:stream/pinpoint-kinesis-datastr Browse Create 🗹
	Format: am:aws:kinesis:[Region]:[AccountId]:stream/[StreamName]

- 7. Choose Amazon kinesis Data Streams as your source and choose Amazon S3 as your destination.
- 8. In the Source settings, browse and choose the data stream you have previously created.

Choose Kinęsis data stream		×
Kinesis data streams (1/1) Q. Find Kinesis data streams		(1)
Name 🖸		∇
O pinpoint-kinesis-datastream	⊘ Active	
		Cancel Choose

9. Enter the name of the delivery stream and leave other default options.

Services	Q Search for services, features, blogs, docs, and more [Alt+S]
Deliver	y stream name
Delivery s	tream name
pinpoint	-kinesis-firehose
Acceptable	characters are uppercase and lowercase letters, numbers, underscores, hyphens, and periods.
Transfo	rm and convert records - ontional
Transio	Thi and convert records - optional
Configure K	inesis Data Firehose to transform and convert your record data.
Transforn Kinesis Data The specifie to the speci	source records with AWS Lambda Info Firehose can invoke an AWS Lambda function to transform, filter, un-compress, convert and process your source data recor d AWS Lambda function can also be used to provide dynamic partitioning keys for the incoming source data before its deliv fied destination.
Data trans	formation
Disabl	ed
🔿 Enable	d
Convert r Data in Apa formatted s function the	ecord format Info che Parquet or Apache ORC format is typically more efficient to query than JSON. Kinesis Data Firehose can convert your JS ource records using a schema from a table defined in AWS Glue [2]. For records that aren't in JSON format, create a Lambda at converts them to JSON in the Transform source records with AWS Lambda section above.
Record fo	mat conversion
Record for Disable	mat conversion श्र

10. In the destination settings, choose an Amazon S3 bucket folder. You will need to create an S3 bucket if it does not exist. The event data will be written to the chosen bucket folder.

Choose a bucket in Amazon S3		×
Buckets (48) Q. pin X	1 match	() ()
Name [2]	⊽ Region	⊽
O pinpoint-datastream-firehose	Asia Pacific (Singapore	0
		Cancel Choose

The bucket folder configured here will be used as Amazon S3 event bucket folder in Amazon Pinpoint Email channel plugin configured in Redpoint Interaction.

11. You may leave other default options. Click **Create** delivery stream.

aws	Services	${\bf Q}_{}$ Search for services, features, blogs, docs, and more	[Alt	+S]
≡	Destinat Specify the o	ion settings Info estination settings for your delivery stream.		
	S3 bucket			
	s3://pinp	pint-datastream-firehose	Brov	vse Create 🔀
	Format: s3:/	bucket		
	Dynamic p Dynamic par partition you you create a incurs additi	artitioning Info itioning enables you to create targeted data sets by partitioning strear r source data with inline parsing and/or the specified AWS Lambda fun new delivery stream. You cannot enable dynamic partitioning for an ex nal costs per GiB of partitioned data. For more information, see Kinesi 4	ming S3 data based on p nction. You can enable d isting delivery stream. E is Data Firehose pricing.	partitioning keys. You can ynamic partitioning only when inabling dynamic partitioning
	 Disable Enable 			
	S3 bucket By default, k default by sp	orefix – optional nesis Data Firehose appends the prefix "YYYY/MM/dd/HH" (in UTC) to ecifying a custom prefix that includes expressions that are evaluated a	the data it delivers to A t runtime.	mazon S3. You can override this
	Enter a p	efix	G	
	You can repo	at the same keys in your S3 bucket prefix. Maximum S3 bucket prefix c	haracters: 1024.	
	S3 bucket You can spectored	rror output prefix - optional fy an S3 bucket error output prefix to be used in error conditions. This t runtime.	prefix can include expre	ssions for Kinesis Data Firehose
	Enter a p	efix	//	
	 Buffer H The field costs. 	ints, compression and encryption below are pre-populated with the recommended default values for S3	3. Pricing may vary depe	nding on storage and request
	 Advas Server-s no tags. 	ced settings de encryption disabled; error logging enabled; IAM role KinesisFirehose	2ServiceRole-pinpoint-a	o-southeast-1-1658400414244;
			Cancel	Croate delivery stream
			Cancel	create delivery stream

12. In the Settings menu of your Pinpoint Email project, click Event stream.

aws	, iii Services Q Search for services, features, blogs, docs, and more [Alt+S]								
=	Pinpoint > All projects > rpidev-test-pinpoint > Settings > Event stream > Edit event stream								
	Event stream settings								
	Services								
	Stream campaign response and app event data for long-term storage and additional analysis.								
	 Stream to Amazon Kinesis Stream to Koresis for email, SMS, push notifications and app analytics to Amazon Kinesis Choose a stream type Amazon Kinesis offers services that you can use to load and analyze streaming data. Choose the type of stream you want to create. Info Send events to an Amazon Kinesis Data Stream Build applications that process your data streams in real-time. Send events to an Amazon Kinesis Data Stream Transfer and load streaming data into Amazon S3, Amazon Redshift, or several other services. pinpoint-kinesis-firehose Vou can create new streams on the Amazon Kinesis console Choose an MM role that allows Amazon Pinpoint to send events to Amazon Kinesis. Info Use an existing role Automatically create a role PinpointSegmentImport C 								
		Cancel	Save						

- 13. In the Event stream settings, select Stream to Amazon Kinesis option.
- 14. Choose Send events to an Amazon Kinesis Data Firehose stream option and select your previously created data stream
- 15. Finally, you can use existing or create new IAM role for the event stream.

6.2 Twilio Account Configuration

This section describes how to get a Twilio account SID, authorization token and number.

6.2.1 Getting an Account SID and Authorization Token

An account SID and an authorization token are both required when integrating Twilio with RPI. Please follow these steps to obtain them.

- 1. Sign up for a Twilio account and log in at <u>https://www.twilio.com</u>.
- 2. Once your account has been verified and has a phone number, click Dashboard. The Account SID is already displayed.
- 3. Click 'Show' under the 'Auth Token' to show the authorization token

(i) tv	vilio			
My fi	rst Twilio TRIAL 🗸			
Solution Solution	Dashboard Billing Usage	● Learn the basics of Twilio ⊢ My first Twilio p	tow does Twilio Work? roject Dashboard	
	Settings	Project Info		
	Upgrade	TRIAL BALANCE \$14.50	TRIAL NUMBER +12(Provide the second	
		REFERRAL PROGRAM Refer your network to Twilio — ACCOUNT SID AC9b!	give \$10, get \$10. Referral Dashboard	ū
		AUTH TOKEN <u>Hide</u> 6301		Ē.

4. The account SID and authorization token can also be retrieved by going to the Account Settings page.

DOCS	\sim	Gina	ılyn Ros	as 🗸	1
	Ξ	Ģ	?	ŝ	}
	Se	tting	s		~
	Su	bacc	ounts		

5. Your live API credentials will be shown as displayed. Click the Lock button to show the authorization token.

Add an extra layer of protection to Twilio accounts. Once you enable 2FA, all users accessing this account must enter ve To enable 2FA for yourself, go to User Settings.	rification codes sent on the channel they prefer.	
DISABLED Do not require a verification code		
ONCE PER COMPUTER Trust computers and only ask for verification	n code every 30 days	
O EVERY LOG-IN We'll always ask for a verification code		
API Credentials		
LIVE Credentials	Learn about REST API Credentials 7	TEST Credentials
ACCOUNT SID AC95: Used to exercise the REST API		TEST ACCOUNT SID AC41 Used to exercise the REST API
AUTH TOKEN © 6: Request a Secondary Token Keen this somewhere safe and secure		© a Keep this somewhere safe and secure

6. You can also view the credentials of the subaccounts by going to the Subaccounts page

© tw	rilio						DOCS	Ƴ Gin	alyn Rosas	~
My fi	st Twilio TRIAL 🗸 :	Settings /				Upgrade Project	🔎 Go to	ø	?	\$
ŵ	Dashboard	Subaccounts								
	Billing Usage	Subaccounts in Twilio are just accounts that of each customer independently.	are "owned" by another account. Using	a subaccount you can segment each of you	ur customers' use of Twilio and keep it s	eparate from all the rest, allowing y	ou to easily manage the a	ictivity and	resource	5
	Settings	Note: Closed subaccounts will be automat	ically deleted 30 days after closure							
	General									
	Subaccounts Manage Users	Open V			Filter					
	API Keys	ACCOUNT NAME		SID			STATUS			
	Credentials	ML_SubAccount1_QA		AC5ac9			Active			
	Connect Apps									
	Audit Events									
	Audit Events Settings									
	Upgrade									

6.2.2 Getting a Twilio number

Follow these steps to obtain a Twilio number.

- 1. Sign up for a Twilio account and log in. <u>https://www.twilio.com</u>.
- 2. Initially, your account will be associated with an existing phone number. You can choose to release your initial number and buy a new one if you upgrade your account.

Dashboard	Clearn the basics of T	wilio How does Twilio Work?	
 Billing Usage	My first Twili	o project Dashboard	
Settings	Project Info		
Upgrade	TRIAL BALANCE \$15.50 REFERRAL PROGRAM	Get a Trial Number Welcome!	
	Refer your network to	We've customized your onboarding guide to match wha you've told us. To get started, get a trial phone number.	5
	AC9b5ad48f567888	/	Ō
	AUTH TOKEN		
	Show		Ō

3. View your numbers in the Manage Numbers page.

⊕ t w	ilio									DO	cs ∨ Gi	nalyn Rosas 🚿
My fir	st Twilio TRIAL 🗸 P	'hone Numbers / Manage Numbers /						U	ograde Project	🔎 Golto	ø	? 🔞
ŵ	Phone Numbers	Active Number	'S									
#	Manage Numbers	0										
	Active Numbers	CLICK + TO BUY NEW NUMBE	R									
	Released Numbers	Number 🗸		Voice URL	~							Filter
		NUMBER	FRIENDLY NAME	CAPAB	ILITIES			CONFIGURATION				
	Buy a Number Verified Caller IDs	+1 205 784 0882	(205) 784-0882	S	间岛	P	网	Voice POST: https://demo.twilio.com/welcome/voice/ Messaging POST: https://demo.twilio.com/welcome/sm	s/reply/			
	Port & Host											
	Regulatory Compliance	* Can send/receive calls to domes † Can send/receive sms to domest	tic numbers only tic numbers only									
	Tools	This number does NOT support S (national) A non-geographic number	IP Trunking ber									
	Usage	(beta) This number is new to the T	wilio Platform									
	Getting Started	(hosted) This number is hosted or	the Twilio Platform									

4. Buy additional numbers for your account by going to the Dashboard and hovering over 'Need more numbers?'
| (i) tv | vilio | |
|--------|---|---|
| My fi | rst Twilio TRIAL 🗸 Pl | Phone Numbers / |
| | Phone Numbers | Buy a Number |
| # | Manage Numbers Buy a Number | COUNTRY Philippines (+63) |
| - | Verified Caller IDs | Not finding the number? We can often get the number for you |
| | Port & Host
Regulatory
Compliance
Tools
Usage | NUMBER Search by digits or phrases (Optional) MATCH TO First part of number Image: Comparison of the search |
| | Getting Started | Search Show Advanced Search |

6.3 Vibes Account Configuration

6.3.1 Vibes Configuration

This section assumes that a Vibes account has already been provided with a username and password, and that a short code or long code have been provisioned to send SMS messages within RPI.

6.3.1.1 Acquiring the message code

- 1. Open a web browser and login to the Vibes portal: <u>https://cm.vibescm.com/app</u>
- 2. Navigate to Campaign Manager
- 3. Copy the message code located on the top right corner of the portal and paste it to the "Message Code" textbox within the Vibes channel configuration in RPI:

vibes * D	ashboard Car	mpaign Manag	er Wallet M	lanager Analytics	Account Redpoint	^{User} JB Gabitanan	?
Mobile Database	Incentives	Campaigns	Messages	Default Messages		Message Code 🔜 1682400	3076
Subscription Lists	Subscribers	Custom Field	ls Uploads	✓ Test Groups			
Search	New	rpidev				Edit	•
rpidev	0						0
SMS						Nov 25 – Dec 1, 2021	•
					•	subscriptions	0
						% change	-
						net change	0
						opt-ins	0
		NOV 26	NOV 27	NOV 28 NOV 29	NOV 30 DEC 01	- opt-outs	0
		Subscripti	ons	by: campaign carri	er Recent Broa	adcasts + New	
					No Broadcasts	5	
					Scheduled E	Broadcasts	
					No Broadcasts	3	

6.3.2 Vibes Performance Limitations

The Vibes API can only support up to 100 SMS subscribers per API call. Each send API request will take approximately 10 milliseconds to complete. For example, if the audience is targeting 1000 SMS recipients, the offer fulfillment step will make 10 total requests, for a total of approximately 100 milliseconds to complete the send.

7 External Content Provider Configuration

7.1 Drupal

This section shows how to configure Drupal CMS v7.x for Redpoint Interaction to support the Drupal External Content Provider (ECP) plugin.

7.1.1 Service Module Installation

1. In a web browser, log into the Drupal content management system.



2. At the toolbar, click Modules.



- 3. Scroll down and locate the **Services** module (if currently installed; if not, please continue to the next step).
- 4. In the Modules page, click Install new module.



5. In the **Install from URL** textbox, enter the following ftp URL: <u>http://ftp.drupal.org/files/projects/services-7.x-</u> 3.7.zip

Click Install:



6. Verify that the installation completes successfully.



- 7. Click **Enable newly added modules** to be redirected to the Modules page.
- 8. Install the following modules by following the same procedure as documented in steps 4 to7:
 - Ctools http://ftp.drupal.org/files/projects/ctools-7.x-1.4.zip
 - OAuth http://ftp.drupal.org/files/projects/oauth-7.x-3.2.zip
 - Libraries http://ftp.drupal.org/files/projects/libraries-7.x-2.2.zip
- 9. Once you have successfully installed the aforementioned modules, double check the following items to see if their status is enabled:
 - Services
 - OAuth Authentication
 - REST Server
 - Chaos tools
 - OAuth
 - Libraries
- 10. Click Save configuration.

7.1.2 Creating a Service Endpoint

1. At the toolbar, click Structure> Services.

♠ Dashboard Content Structure Appearance People Modules Configuration Reports Help

2. On the Manage Services page, click Add to add a new service endpoint.



- 3. Click Add to add new service endpoint.
- 4. In the Machine-readable name textbox, enter rpi_test.
- 5. Select Server option REST.
- 6. Enter rpi_test for the Path. This serves as the Service name in the RPI Drupal ECP plugin.
- 7. Select Session authentication.
- 8. Click Save.

Machine-readable name of the endpoint *
rpi_test
The endpoint name can only consist of lowercase letters, underscores, ar
Server * REST ▼ Select a the server that should be used to handle requests to this endpoi
Path to endpoint *
thirtead
Debug mode enabled
Useful for developers. Do not enable on production environments
Authentication
✓ Session authentication
OAuth authentication
Choose which authentication schemes that should be used with your endp
Save

9. On the Services page, the newly added Service endpoint named *rpi_test* will be displayed.

NAME	STORAGE	OPERATIONS
rpi_test	Normal	Edit Resources 👻

- 10. Click Edit Resources.
- 11. Select the **file** and **user** resources.
- 12. Click Save.



13. On the Service tab, click Server.

EDIT	SERVER	AUTHENTICATION	RESOURCES	EXPORT	og out
					8

- 14. Under Response formatters, select the **json** option.
- 15. Select application/x-www-form-urlencoded and multipart/form-data options for request parsing.
- 16. Click Save.

7.1.3 Creating Content Type

- 1. At the toolbar click, **Structure**.
- 2. Click Content type.
- 3. At the list of content types, make sure you are editing the Basic page. Click Manage fields.
- 4. Enter the name of the field in **Add new field** textbox (in this example we will be using an Image content type; set its field type to **Image**).
- 5. Click Save.

				Show row weights
LABEL	MACHINE NAME	FIELD TYPE	WIDGET	OPERATIONS
⊕ Title	title	Node module element		
+ Body	body	Long text and summary	Text area with a summary	edit delete
+ Add new field Images Label	field_images [Edit]	Image v Type of data to store.	Image v Form element to edit the dat	a.
+ Add existing field	- Select an exis Field to share	ting field - 🔹	- Select a widget - 🔻	a.
Save				

- 6. At the Images field settings, set the upload destination to Public files.
- Click Save field settings. The basic page settings for the Image field will be displayed. Set the File directory to images. Note: this will serve as a root folder once you load the root folders in the Drupal ECP

File directory		
images		
Optional subdirectory within the upload destination where files will b	e store	d.

- 8. Click Save settings.
- 9. Click Add content.



- 10. Click Basic page. This enables us to create a new file within the Drupal ECP by attaching an image file to the content.
- 11. Enter the title of the file and choose image file.
- 12. Click Save.
- 13. On the toolbar, Click **Configuration**.

n	Dashboard	Content	Structure	Appearance	People	Modules	Configuration	Reports	Help

14. Click File system.



15. Take note of the value of the Public file system path (this serves as the Public folder at the RPI Drupal ECP plugin).

Public file system path

sites/default/files

A local file system path where public files will be stored. This directory directory and be accessible over the web.

7.2 Umbraco

This section describes how to deploy the extension library on an existing Umbraco content management system (CMS) v7.15.2 web application.

- 1. In the Redpoint Interaction Deployment Files, locate and open the *Plugins Services\Umbraco\bin* folder.
- 2. Locate and copy the following libraries:

RedPoint.UmbracoService7.dll RedPoint.Plugins.Localization.dll RedPoint.Shared.Localization.dll

3. Paste the files into the Umbraco CMS bin directory e.g. .. \wwwUmbraco752 \bin\

7.3 Google Drive

7.3.1 Creating and Configuring a Google Project

This section describes how to create and configure a new Google project. Please follow the steps below:

- 1. In a web browser, log into the Google API console (https://code.google.com/apis/console) using a Gmail account.
- 2. If this is your first time accessing the Google Developer Console, create a new project by clicking the **Create Project** button. If not, skip this step.



3. Enter the name of the project and click the **Create** button.



4. Once you have successfully created the project, double-click the Project Name.

≡ Google APIs \$• rpiQA ▼				
DASHBOARD	ACTIVITY	RECOMMENDATIONS		
How G	oogle Cloud is helpi	ng during COVID-19 Learn more		
		 Project info Project name rpIQA Project ID rpiq Project number 834i 	I	
		ADD PEOPLE TO THIS PROJECT → Go to project settings		

7.3.2 Enabling the Google Drive API

This section describes how to enable the Google Drive API. Please follow the steps below:

1. From Google Project's dashboard click Go to APIs overview > Library

≡ Google	APIs 🕻 rpiQa	•		Q Search for APIs and Services	
DASHBOARD	ACTIVITY	RECOMMENDATIONS			
e How	Google Cloud is help	ing during COVID-19 Learn more			
		Project info Project name rpIGA Project ID rpiga Project rumber 8340 ADD PEOPLE TO THIS PROJECT		RPI APIS Requests (requests/sec)	0.106 0.104 0.102 0.100 0.098
		Go to project settings Go Resources This project has no resources	I	4-15 4-30 4-45 5.PM ● Requests: 0.100 → Go to APIs overview	0.096
=	G <mark>o</mark> ogl	eAPIs 💲 rpiQA ▾			
API	APIs 8	Services			
💠 Dashboard					
Ш	Library				

2. In the API Library, search for Google Drive.

≡ Google APIs 🔹 rpiQA 👻					
← Search		Q google drive			
Filter by	5 results				
CATEGORY Analytics (1) Big data (2)	4	Google Drive API Google The Google Drive API allows clients to access resources from Google Drive			

3. Once Google Drive has been found, click **Google Drive API** and **Enable**.



7.3.3 Provisioning New API Credentials

This section describes how to provision the Google Drive API to be utilized in Redpoint Interaction's Google Drive external content provider.

1. From Google Project's dashboard click Go to APIs overview > Credentials.



2. Click Create Credentials and choose API Key.



3. Take note of your newly created API key.



4. Return to the Credentials tab, click **Create credentials** and choose **OAuth client ID.**

Credentials	+ CREATE CREDENTIALS The DELETE
Create credentials to ac	API key Identifies your project using a simple API key to check quota and access
🔺 Remember t	OAuth client ID Requests user consent so your app can access the user's data
API Keys	Service account Enables server-to-server, app-level authentication using robot accounts
Name	Help me choose Asks a few questions to help you decide which type of credential to use

- 5. Click New Credentials, then select OAuth client ID.
- 6. Note: If you are unsure whether OAuth 2.0 is appropriate for your project, select Help me choose and follow the instructions to pick the right credentials.
- 7. Select the appropriate application type for your project and enter any additional information required. Application types are described in more detail in the following sections.
- If this is your first time creating a client ID, you can also configure your consent screen by clicking Consent Screen. (The <u>following procedure</u> explains how to set up the Consent screen.) You will not be prompted to configure the consent screen after you do it the first time.

=	Google APIs 🔹 rpiqa 👻		Q Search for APIs and Services	•	Ø A I 🤇
API	APIs & Services	Create OAuth client ID			
ф Ш	Dashboard Library	A client ID is used to identify a single app to Google's OAuth servers. If you app nur multiple platforms, each will need its own client ID. See <u>Setting up OAuth 2.0</u> for m information.	s on ore		
••	Credentials	A To create an OAuth client ID, you must first set a product name on the	onsent screen		CONFIGURE CONSENT SCREEN
2 To	Domain verification Page usage agreements				





9. Click Create to create client ID.

=	Google APIs 💲 rpiQA 🗸		٩	Se
API	APIs & Services	← Create OAuth client ID		
٩	Dashboard	A client ID is used to identify a single app to Google's OAuth servers. If you app runs	on	
Ш	Library	multiple platforms, each will need its own client ID. See <u>Setting up OAuth 2.0</u> for mor information.	e	
0+	Credentials	Application type *	•	
ıУ	OAuth consent screen	Learn more about OAuth client types		
	Domain verification	Name * Web client 1		
Ξ¢	Page usage agreements	The name of your OAuth 2.0 client. This name is only used to identify the client in the console and will not be shown to end users.		
		• The domains of the URIs you add below will be automatically added to your <u>OAuth consent screen</u> as <u>authorized domains</u> .		
		Authorized JavaScript origins For use with requests from a browser		
		Authorized redirect URIs		
		For use with requests from a web server		
		+ ADD URI		
		CREATE CANCEL		
04	Auth client c	reated		

OAut	n client creat	ed	
The client Services	ID and secret can alwa	ys be accessed from Credentials in APIs 8	×
0	OAuth is limited to 10 consent screen is ver that can take several	0 <u>sensitive scope logins</u> until the <u>OAuth</u> ified. This may require a verification proce days.	SS
Your Clie 834027	nt ID	aoufnfop1bm09oq4m4qv6.apps.gc	6
Your Clie aSyi0r	nt Secret		٦

10. To delete a client ID, go to the Credentials page, check the box next to the ID, and then click Delete.

	Google APIs \$ rpiQA +	<			Q Search i	for APIs and Services		*	0 A I 😩
API	APIs & Services	Crede	ntials + CRE	ATE CREDENTIALS 👕 DELETE					
ф Ш	Dashboard Library	Create c	redentials to access your Keys	enabled APts. Learn more					
01	Credentials		Name	Creation date 4	Restrictions	Key		Usage with all services (last 30 days)	
D.	OAuth consent screen		🔺 API key 1	May 26, 2020	None	AIzaSy8- At7QnyUcq8vk	6	0	/ 1
T ₀	Page usage agreements	OAu	uth 2.0 Client IDs						
			Name	Creation date 🕹		Туре		Client ID	
			Web client 1	May 28, 2020		Web application		834827726767-91fm 🖸	/ # ±
		Ser	vice Accounts						Manage service accounts
			Email	Name 🕇		Usage with all services (last 30 days)			
		No se	rvice accounts to display						

7.4 Microsoft OneDrive

This section describes how to configure Microsoft OneDrive for use by RPI.

1. In a web browser, logon to the Microsoft Live Management Site (https://account.live.com/developers/applications/create).

Microsoft Sign in Email, phone, or Skype No account? Create one! Sign in with a security key ③	Microsoft Sign in Email, phone, or Skype No account? Create one! Sign in with a security key ③ Sign-in options	Application Regist	ration Portal	
Sign in Email, phone, or Skype No account? Create one! Sign in with a security key ③	Sign in Email, phone, or Skype No account? Create one! Sign in with a security key ③ Sign-in options	Microsoft		
Email, phone, or Skype No account? Create one! Sign in with a security key ③	Email, phone, or Skype No account? Create one! Sign in with a security key ⑦ Sign-in options	Sign in		
No account? Create one! Sign in with a security key ⑦	No account? Create one! Sign in with a security key ③ Sign-in options	Email, phone, or Skype		
Sign in with a security key 🕥	Sign in with a security key ⑦ Sign-in options	No account? Create one!		
	Sign-in options	Sign in with a security key 🥎		
Next				
Next				_

2. Following a successful log on, enter the Application name (Redpoint Interaction) and click the Create application button.

New Application Registration		
Name		
Application name must be unique, non-empty and contain at most 90 chara	cters.	
Clicking the button below means that you agree to the Micros	oft Account services terms o	f use:
Terms of use	Create application	Cancel

3. Following successful creation of the application, add a valid Redirect URL and click the Save button.

Toperties			
ame			
redpoint2020			
pplication Id 00000004C3D6A6C			
Application Secrets			
Senerate New Password			
ww.ban	Version 0	Current	
wybM1 Platforms wis ration	Vension 0	Current	Dolars.
vwjbM1 Platforms vid statom Web	Version 0	Current	Delete
wwpM1 Platforms Structure Web # Allow Implicit Flow # Retrict taken issuing to this app Units the image of 2000 Web Taken python to exclusively the applica	Version 0	Current	Delete
wubh1 Platforms difattorn Web # Allow Implicit Flow # Retrict token issuing to this app Immit the many of XDOV Web Tables (WMT for your domain to exclusively this applications) Target Domain	Version 0	Current	Delete
wyb/1 Platforms w/ Platform Web # Allow implicit Flow # Allow implicit Flow # Allow implicit Flow # Allow implicit Flow # Allow implicit ONI Web Takens (W/T) for your demain to exclusively this applicit Target Demain Target Demain	Version 0	Current	Delete

- 4. To check the values of Client ID and Client Secret, log into Microsoft Azure using your credentials.
- 5. Go to Azure Active Directory > App registrations and click on Register an Application.

	.P Search resources, services, and docs (G+/)
All services > App registrations	
App registrations	
, Search (Ctrl+/)	χ + New registration ♡ Got feedback?
0 Overview	P Start typing a name or Application ID to filter these results
💉 Getting started	There are no applications here.
X Diagnose and solve problems	Register an application
Manage	
🚨 Users	
🚨 Groups	
External Identities	
8 Roles and administrators	
Enterprise applications	
Devices	
App registrations	

6. Enter the application's NOME, select the desired option in Supported account types, select the Web option and specify a Redirect URL. Click the Register button.

All services > App registrations > Re	gister an application
Register an application	
This application will not be assoc outside of a directory.	iated with any directory and will be subject to limitations. You should not create production apps
* Name	
The user-facing display name for this	application (this can be changed later).
oned	
Supported account types	
Who can use this application or acces	s this API?
O Accounts in any organizational d	irectory (Any Azure AD directory - Multitenant)
 Accounts in any organizational di 	irectory (Any Azure AD directory - Multitenant) and personal Microsoft accounts (e.g. Skype, Xbox)
Personal Microsoft accounts only	
Help me choose	
Padiract LIPL (antional)	
Redirect ORI (optional)	a shi u ni sha ana shi ka sha sha sha sha na maridin shi ana isaniya a ba
changed later, but a value is required	for most authentication scenarios.
Web	https://www.redpointglobal.com
	······································
By proceeding, you agree to the Micro	osoft Platform Policies 🖻
Parista	
Register	

7. Copy the Application (Client) ID. Go to Certificates and Secret.

■ Microsoft Azure	𝒫 Search resources, services, and docs (G+/)	
All services > App registrations > onedriv	eRP2020	
onedriveRP2020		
,	i Delete	
R Overview	🚺 Got a second? We would love your feedback on Microsoft identity platform (previously Azure AD for developer). →	
 Quickstart Integration assistant (preview) Manage 	Display name : onedhieRP2020 Application (dien) (D : ack Object) : 830 Directory (tenwort (D : 18c;	Supported account types : All Microsoft account users Redirect URIs : 1 web, 0 spa, 0 public client Application ID URI : Add an Application ID URI
Branding		۸
Authentication Certificates & secrets	Welcome to the new and improved App registrations. Looking to learn how it's changed from App registrations (Legacy)? Learn more	
Token configuration API permissions	Call APIs	Documentation
Expose an API Owners Manifest	 Image: Image: Ima	Microsoft identity platform Authentication scenarios Authentication libraries Code samples Microsoft Graph Glossary
Support + Troubleshooting	Build more powerful apps with rich user and business data from Microsoft services and your own company's data	Help and Support
New support request	Sources. View API permissions	

8. Click on New Client Secret

All convices \ App registrations \ apadeix	aPD2020 Cartificator & carrate		
All services > App registrations > onedriv	rates & secrets		
	ales & secrets		
	Credentials enable confidential applications scheme). For a higher level of assurance, we	to identify themselves to the authentication service recommend using a certificate (instead of a client service)	when receiving tokens at a web addressable location (using an HTTPS erect) as a credential.
Overview			
📣 Quickstart	Certificates		
🚀 Integration assistant (preview)	Certificates can be used as secrets to prove	the application's identity when requesting a token. A	Also can be referred to as public keys.
Manage	↑ Upload certificate		
- Branding	Thumbprint	Start date	Expires
Authentication	No certificates have been added for this app	plication.	
📍 Certificates & secrets			
Token configuration			
- API permissions	Client secrets		
🙆 Expose an API	A secret string that the application uses to p	rrove its identity when requesting a token. Also can i	be referred to as application password.
Owners	+ New client secret		
0 Manifest	Description	Expires	Value
Support + Troubleshooting	No client secrets have been created for this	application.	
P Troubleshooting			
New support request			

9. Enter description, select expiry time, and click Add.

Client secrets							
A secret string that the application uses to prove its identity when requesting a token. Also can be referred to as application password.							
+ New client secret							
Description	Expires	Value					
Description onedriverp	Expires 12/31/2299	Value Px_yOGQtq2_w~n0N_8n3R-d09~1Dr2SiO8	Ď	Î			

7.5 Concrete5

7.5.1 PHP Server Installation

This document outlines how to setup Concrete5.3.2 for integration with the RPI Concrete5 external content provider plugin. Please follow the steps below:

1. Install XAMPP if there is no PHP server has yet to be set up. Otherwise, skip this step. You can download the installer from https://www.apachefriends.org/index.html



2. Launch the XAMPP Control Panel from the Start Menu.

🔀 XAMPP Co	ntrol Panel v	3.2.1 [Co	mpiled: May 7th 2013]					
ខ	XAN	MPP C	ontrol Panel v3	.2.1				Config
Modules Service	Module	PID(s)	Port(s)	Actions				🙆 Netstat
	Apache			Start	Admin	Config	Logs	🔤 Shell
	MySQL			Start	Admin	Config	Logs	🔄 Explorer
	FileZilla			Start	Admin	Config	Logs	🦻 Services
	Mercury			Start	Admin	Config	Logs	😟 Help
	Tomcat	680	8005, 8080, 50443	Stop	Admin	Config	Logs	Quit
12:19:45 P 12:19:45 P 12:19:45 P 12:19:45 P 12:19:45 P 12:19:45 P 12:19:45 P 12:19:45 P 12:19:45 P	M [Apache] M [Apache] M [Apache] M [Apache] M [Tomcat] M [Tomcat] M [Tmain] M [main]	Problem Port 443 Apache V You need or reconfi Java is al Is Tomca Starting (Control F	detected! in use by "Unable to o MILL NOT start without it o uninstall/disable/re gure Apache and the (iready running on port it a laready running? Check-Timer Panel Ready	pen proces: t the configure th Control Pan 3005!	s" with PID 4 Ired ports free e blocking ap el to listen on	el pplication a different p	iort	

- 3. Start Apache and MySQL. You may encounter some errors regarding port numbers. To solve them, follow the steps below:
 - a) For an Apache problem, open the httpd.conf file by clicking the Config button.

🔀 XAMPP Co	ontrol Panel v	3.2.1 [Com	piled: May 7th 2013]				-	. 🗆 🛛
ខ	XAN	IPP Co	ntrol Panel v3	.2.1			🥜 Co	onfig
Service	Module	PID(s)	Port(s)	Actions			O Net	tstat
	Apache			Start	Admin	Coi	Apache (httpd.conf)	
	MySQL			Start	Admin	Cor	Apache (httpd-ssl.conf) Apache (httpd-xampp.conf)	rer
	FileZilla			Start	Admin	Coi	PHP (php.ini) phpMyAdmin (config.inc.php)	es
	Mercury			Start	Admin	Coi	<browse> [Apache]</browse>	
	Tomcat	680	8005, 8080, 50443	Stop	Admin	Cor	<browse> [PHP] <browse> [phpMyAdmin]</browse></browse>	
12:30:34 F 12:30:35 F 12:30:35 F 12:30:35 F 12:30:35 F 12:30:35 F 12:30:35 F 12:30:35 F	M [Apache] M [Apache] M [Apache] M [Apache] M [Apache] M [Apache] M [Apache] M [Apache] M [Apache]	Status cha Status cha Error: Apac This may b improper p Press the I the Window If you need entire log w	nge detected: runnin nge detected: stoppe che shutdown unexpe e due to a blocked p rivileges, a crash, or _ogs button to view e ws Event Viewer for r more help, copy and vindow on the forums	g ectedly. ort, missin a shutdowi rror logs a nore clues d post this	g dependenci 1 by another i 1d check	ies, method.		•

b) Find all instances of port 80 and replace them with your desired port number.



```
# General setup for the virtual host
DocumentRoot "C:/xampp/htdocs"
ServerName www.example.com:443
ServerAdmin admin@example.com
ErrorLog "C:/xampp/apache/logs/error.log"
TransferLog "C:/xampp/apache/logs/access.log"
```

;	Module	PID(s)	Port(s)	Actions
	Apache	5008 4536	8097, 8099	Stop
	MySQL	5228	3306	Stop

4. Open a web browser and browse to: http://localhost:<port number>. You should see the following page:



English / Deutsch / Francais / Nederlands / Polski / Italiano / Norwegian / Español / 中文 / Português (Brasil) / 日本語

5. Click English and you will be taken to the following page:

/ 😥 XAMPP 1.8.3	
← → C 🗋 loca	Ihost: 8099/xampp/index.php
ເຊ	XAMPP for Windows
XAMPP 1.8.3 (prev. 53.3) Welcome Security Documentation Components Applications Php phpinf0(0) CD Collection Biorhythm Instant Art Phone Book Determinf0(0) Guest Book Determinf0 Guest Book 12ee Info Tomcat examples phpklyAdmin FileZila Jizer Webalizer Mail	Welcome to XAMPP for Windows! You have successfully installed XAMPP on this system! Now you can start using Apache and Co. You should first try >Status* on the left navigation to make sure everything works fine. For OpenSSL support please use the test certificate with https://122.0.0.1 or https://localhost Good luck, Kay Vogelgesang + Kai 'Oswald' Seidler Install applications on XAMPP using BitNami Apache Friends and BitNami are cooperating to make dozens of open source applications available on XAMPP, for free. BitNami-packaged applications indu XMPP page for details on the currently available apps. Image: Status and DitAminary available apps.

6. Click phpMyAdmin under Tools from the left-hand menu. You will be taken to the following page:

/ 🏡 localhost:8099 / 127.0.0.1 🗙 🚺		
← → C 🗋 localhost:8099/p	ohpmyadmin/#PMAURL-0:index.php?db=&table=&server=1⌖=⟨=en&collation_connection=utf8mb4_general_ci&token=bc1fa0625	5639a2875d485eb7i
technology (27.001) C C C Iocalhost: 8099/; PhyMAdmin C C Poortes Provides Provides	or primyadmin/#PMALRL-0:index.php?db=&table=&server=1⌖=⟨=en&collation_connection=utf8mb4_general_ci&token=bc1fa0625 Image: Server 127 1011 Image: Databases Sol Status Image: Server 127 1011 Image: Databases Sol Status Image: Server 127 1011 Image: Databases Sol Status Image: Server connection collation Image: Ser	5639a2875d485eb7 5639a2875d485eb7 5639a2875d485eb7 Server 127C Server 127C Server versio Protocol vers User root20 Server chars Web Server Apache/2.4.1 Database clin bf9ad3511fc
		PHP extensi phpMyAdmi Version infon

7. Click New. Type the database name in the right-hand panel. In the screenshot below, the database name is rpConcrete. Click Create.

php <mark>MyAdmin</mark>	← 📑 Sewer 127 U.U.1
<u>↑</u> 🔒 😡 🗊	🗊 Databases 🗐 SQL 🚯 Status 🔍 Users 🖾 Export 🗐 Import 🧃
Recent Favorites	
- Rew	Databasas
🖶 🗐 cdcol	Databases
🖶 🗐 information_schema	
🖶 🔄 mysql	🕞 Create database 🔞
🖶 🗐 performance_schema	rnConcrete Collation T Create
🖶 🗐 phpmyadmin	
test	
🛨 🗐 webauth	Note: Enabling the database statistics here might cause heavy trainc between the web se

7.5.2 Concrete5 Installation

1. Download Concrete5.6.3.2 from: <u>http://www.concrete5.org/get-started</u>. Choose Version 5.6.3.2.



2. Extract the Concrete5 zip file and move it to C:\xampp\htdocs.

htdocs					
Organize 🔻 浸 Open I	nclude in library 👻 Share with 👻	New folder			
🔆 Favorites	Name *	Date modified	Туре	Size	
🧾 Desktop	🕌 concrete5.6.3.2	11/20/2014 1:23 PM	File folder		
鷆 Downloads	鷆 forbidden	11/20/2014 12:15 PM	File folder		
🔚 Recent Places	鷆 ing	11/20/2014 12:15 PM	File folder		
📜 Libraries	restricted	11/20/2014 12:15 PM	File folder		
	🐌 xampp	11/20/2014 1:11 PM	File folder		
Documents Music	🔝 apache_pb	3/30/2013 7:29 PM	GIF image	3 KB	
Pictures	💽 apache_pb	3/30/2013 7:29 PM	PNG image	2 KB	
Videos	🔝 apache_pb2	3/30/2013 7:29 PM	GIF image	3 KB	
BLUE .	🔊 apache_pb2	3/30/2013 7:29 PM	PNG image	2 KB	
📜 Computer	🔝 apache_pb2_ani	3/30/2013 7:29 PM	GIF image	3 KB	
	epplications	4/4/2014 10:40 PM	Chrome HTML Docu	2 KB	
🙀 Network	📋 bitnami	4/29/2013 3:27 PM	Cascading Style Sh	3 KB	
	🔀 favicon	3/30/2013 7:29 PM	Icon	8 KB	
	🧿 index	3/30/2013 7:29 PM	Chrome HTML Docu	1 KB	
	index.php	3/30/2013 7:29 PM	PHP File	1 KB	

3. Get the Slim Framework for Concrete5 from the "DeploymentFiles\Plugins Services\Concrete5" directory of the Redpoint Interaction Deployment file". Extract the zip file.

h library 👻 Share with 👻 Burn New to	older		
Name	Date modified	Туре	Size
index.php	11/19/2014 7:18 PM	PHP File	10 KB
RedPointInteractionC5Services.php	11/19/2014 7:26 PM	PHP File	7 KB
🔚 slim-concrete5-master.zip	10/27/2014 5:06 PM	WinRAR ZIP archive	106 KB

4. In C:\xampp\htdocs, create a new folder. In the screenshot below, it's named c5app.

Name ^	Date modified	Туре	Size
🐌 с5арр	11/20/2014 2:07 PM	File folder	
Concrete5.6.3.2	11/20/2014 1:23 PM	File folder	
鷆 forbidden	11/20/2014 12:15 PM	File folder	
鷆 ing	11/20/2014 12:15 PM	File folder	
퉬 restricted	11/20/2014 12:15 PM	File folder	
鷆 xampp	11/20/2014 1:11 PM	File folder	
🔝 apache_pb	3/30/2013 7:29 PM	GIF image	3 KB
📭 apache_pb	3/30/2013 7:29 PM	PNG image	2 KB
🔝 apache_pb2	3/30/2013 7:29 PM	GIF image	3 KB
📭 apache_pb2	3/30/2013 7:29 PM	PNG image	2 KB
🔽 apache_pb2_ani	3/30/2013 7:29 PM	GIF image	3 KB
💿 applications	4/4/2014 10:40 PM	Chrome HTML Docu	2 KB
💭 bitnami	4/29/2013 3:27 PM	Cascading Style Sh	3 KB
🔀 favicon	3/30/2013 7:29 PM	Icon	8 KB
💿 index	3/30/2013 7:29 PM	Chrome HTML Docu	1 KB
index.php	3/30/2013 7:29 PM	PHP File	1 KB

5. Move the Concrete 5.6.3.2 folder inside c5app. Rename it to Concrete 5.

🤉 📙 👻 Computer	🍌 🔸 Computer 👻 Local Disk (C:) 👻 xampp 👻 htdocs 👻 c5app 👻				
 Include in libra 	ary 🔻 Share with 👻 New folder				
rites	Name ^	Date modified	Туре	s	
sktop wnloads	Doncrete5	11/20/2014 1:23 PM	File folder		

6. Back in the extracted Concrete5 zip file, copy the Slim folder and index.php file to the c5app folder.

acces master			·	
🍌 👻 Computer	r → Local Disk (C:) → Users → nparian → I	Downloads 👻 slim-concrete5-master 👻	slim-concrete5-master 👻	
; Open S	5hare with 🔻 New folder			
:es	Name ^	Date modified	Туре	Size
top	鷆 Concrete5	11/20/2014 1:44 PM	File folder	
nloads	📙 Slim	11/20/2014 1:44 PM	File folder	
int Places	퉬 tests	11/20/2014 1:44 PM	File folder	
24	.htaccess	11/20/2014 1:44 PM	HTACCESS File	1 KB
iments	index.php	11/20/2014 1:44 PM	PHP File	9 KB
с		11/20/2014 1:44 PM	File	2 KB
ires	phpunit.xml.dist	11/20/2014 1:44 PM	DIST File	1 KB
DS .	README.md	11/20/2014 1:44 PM	MD File	1 KB
	d and the second se			

 Computer + Local Disk (C:) + xampp + htdocs + cSapp + Include in library + Share with + New folder 				
rites	Name 🔶	Date modified		
sktop	🐌 Concrete5	11/20/2014 1:23 PM		
wnloads	冯 Slim	11/20/2014 2:14 PM		
cent Places	index.php	11/20/2014 1:44 PM		
ries				

7. In the extracted Concrete5 zip file, copy the Concrete5\Middleware folder to the c5app\Concrete5 folder in XAMPP.

ete5									
) - 📕 🗕 Comput	er 🔻 Local Disk (C:) 🔻	xampp • htdocs • c5app • Co	norete5 🕶					🔹 🔯 Search Co	ncrete5
e 🔻 🍃 Open	Include in library 🔻	Share with 👻 New folder							
rorites	Name ^		Date modified	Туре	Size				
esktop	🔒 blocks	Concrete5							
wnloads :cenit Places	Concrete	Computer	 Local Disk (C:) < Users 	+ nparian + Downloads	 slim-concrete5-r 	naster 🕶 s	âm-concrete5-ma	aster + Concrete5 +	
ries icuments	b controllers	Organize 💌 🥁 Open Ir	clude in library 👻 Share Name ^	with 🔻 New folder	Date modified	1	Туре	Size	
isic tures	🎍 elements 鷆 files	E Desktop	Diddleware		11/20/2014 1	:44 PM	File folder		
leos	鷆 helpers	🔛 Recent Places							
puter	🍌 js	Cibraries							
Jork	🕌 libraries <u>]i</u> mail	 Music Pictures Videos 							
	Middleware	🛀 Computer							

8. Copy the RedpointInteractionC5Services.php file from the "DeploymentFiles\Plugins Services\Concrete5" directory of the Redpoint Interaction Deployment files to the Middleware folder under c5app. Also, replace the index.php in c5app with the index.php file that came with the RedpointInteractionC5Services.php file.

Concrete5.php	11/20/2014 1:44 PM	PHP File	3 КВ
Concrete5BasicAuth.php	11/20/2014 1:44 PM	PHP File	6 KB
RedPointInteractionC5Services.php	11/19/2014 7:26 PM	PHP File	7 KB

Name
📄 index.php
RedPointInteractionC5Services.php

9. Open the Concrete5.php file and edit the DIR_BASE definition. Make sure it matches the directory you have set up.

```
private function _bootConcrete() {
    /* Set the execute const */
    define('C5_EXECUTE', true);
    /* Set the base path to Concrete5 installation directory */
    define('DIR_BASE', 'C:/xampp/htdocg/c5app/Concrete5'); // '/path/to/concrete5');
```

10. Browse to http://localhost:<port>/<foldername/<concrete5folder>. The following page will be shown:

Install conc Version 5.6.3.2	crete5
Language	English (United States)
	Changes Language

- 11. Choose English as the language and click the Choose Language button. In the next screen, click Continue to Installation.
- 12. Complete the following information. Use the database you created earlier. Click Install concrete5.

Name Your Site: RedPoi Iministrator Informatio Email Address: email@ Password:	ntC5)N (address.com	Server: MySQL Username:	localhost
Email Address: email@ Password: Confirm Password:	address.com	MySQL Username:	root
Email Address: email@ Password: Confirm Password:	address.com		
Password:		MySQL Password:	
Confirm Password:		Database Name:	rpConcrete5
mple Content			
Sample Content with Blog A great starting point for an attractive website with a blog.			
oncrete5 veterans can choose "f	Empty Site," but otherwise we	e recommend starting with son	ne sample content.
Install concrete5 Version 5.6.3.2			

Troubleshooting

Installation should not take more than an hour. If you get stuck in installation with the message "Installing Dashboard", resolve the issue with the following steps:

• In XAMPP's Control Panel, click the Config button for Apache and open the php.ini file.

- Look for the variable: max_execution_time and set its value to higher than 30. (e.g. max_execution_time=180)
- You may set also the following variables to allow large file sizes:
 - o max_input_vars = 1000000
 - o upload_max_filesize = 1000M
 - o post_max-size = 1000M
- Then remove ":" or "," preceding such variables. You will also need to restart Apache.
- In XAMPP's Control Panel, click the Config button for MySQL and open the my.ini file.
- Locate the lines of text below: # The MySQL server [mysqld] port= 3306
- Add the text below after the 'port' line: lower_case_table_names = 2 default-storage-engine=MyISAM
- Drop the database you have created then recreate it.
- Go back to step #10 of this guide.
- 13. After the installation, browse to: http://localhost:<port>/<sitename>/index.php. A log-in dialog will be displayed. Type 'admin' in the username and your previously-selected password.

×
]



Welcome to Slim!

Congratulations! Your Slim application is running. If this is your first time using Slim, start with this "<u>Hello World" Tutorial</u>.

You have access to the Concrete5 API for the site named RedPointC5. You have also logged on as admin via the Concrete5 Basic HTTP auth plugin for Slim.

Get Started

- 1. The application code is in index.php
- 2. Read the online documentation
- 3. Follow @slimphp on Twitter

Slim Framework Community

Support Forum and Knowledge Base

Visit the <u>Slim support forum and knowledge base</u> to read announcements, chat with fellow Slim users, ask questions, help others, or show off your cool Slim Framework apps.

Twitter

Follow <u>@slimphp</u> on Twitter to receive the very latest news and updates about the framework.

7.5.3 Concrete5 Management

To browse to a Concrete5 instance, navigate to: http://localhost:[port]/[sitename]/Concrete5. (e.g., http://localhost:8099/c5app/Concrete5/). You will see the page below:



Click on Dashboard at the upper right to bring up the Dashboard Panel.



Click File Manager under Files to view the files uploaded to Concrete5.

File Manager				▼ ? * ×
Keywords	# Per Page 10	▼ Search	A	dvanced Search ▼
** With Selected	٣	Choose File No file chosen	Upload File No file chosen	Upload Multiple
Thumbnail Type	Title	Added 🗸	Active	Size
🛛 🚺 🖈 JPEG	sh_thumbnail.jpg	11/20/2014 at 7:47 AM	11/20/2014 at 7:47 AM	14.89 KB
🗆 💼 🌸 JPEG	northern_az_lake_powell_house_boats.jpg	11/20/2014 at 7:47 AM	11/20/2014 at 7:47 AM	221.66 KB
🗆 🖬 🖬 👷 JPEG	europe_spain_grenada_alhambra.jpg	11/20/2014 at 7:47 AM	11/20/2014 at 7:47 AM	313.29 KB
🗆 📰 👷 JPEG	europe_valencia_hemispheric.jpg	11/20/2014 at 7:47 AM	11/20/2014 at 7:47 AM	256.52 KB
🗌 📷 👷 JPEG	europe_rotterdam_port.jpg	11/20/2014 at 7:47 AM	11/20/2014 at 7:47 AM	199.01 KB
🗆 📰 👷 JPEG	europe_germany_munich_arch.jpg	11/20/2014 at 7:47 AM	11/20/2014 at 7:47 AM	223.86 KB
🗆 🖬 👷 JPEG	europe_england_stonehenge.jpg	11/20/2014 at 7:47 AM	11/20/2014 at 7:47 AM	280.13 KB
🗆 📶 👷 JPEG	england_village.jpg	11/20/2014 at 7:47 AM	11/20/2014 at 7:47 AM	325.31 KB
VIEWING 1 TO 8 (8 TOTAL)				

To upload a single file, click Choose File. After selection, click the Upload File button. To upload multiple files at the same time, click Upload Multiple and a new dialog box will appear.

File Manager		▼ ? ★ X
Keywords	#Per Page 10 • Search	Advanced Search 🔻
** With Selected	Add Files ×	Upload File Upload Multiple
Thumbnail Type Titl	Upload Multiple Add Incoming Add Remote Files	Size
□ 📊 🚖 JPEG sh_	Upload Multiple Files Upload Max: 2M. Post Max: 8M	14 at 7:47 AM 14.89 KB
🔲 🔜 🁷 JPEG nor	Upload Queue 🔓 Add Files	14 at 7:47 AM 221.66 KB
🔲 🕅 🖬 🌸 JPEG eur	4	14 at 7:47 AM 313.29 KB
🔲 📰 👷 JPEG eur		14 at 7:47 AM 256.52 KB
🔲 📰 👷 JPEG eur	4	14 at 7:47 AM 199.01 KB
🔲 👘		14 at 7:47 AM 223.86 KB
🔲 🖬 👷 JPEG eur		14 at 7:47 AM 280.13 KB
🗆 📶	Cancel Start Uploads	14 at 7:47 AM 325.31 KB
VIEWING 1 TO 8 (8 TOTAL)		3

Folders are called Sets in Concrete5. In the Dashboard dialog, click File Sets under Files.

File Sets		▼ ? ★ ×
Keywords	Type Public Sets Search	
No file sets found.		Add File Set

To create a Set, click the Add File Set button. Then type the Set name and click Add.

Add Set		▼ ★ ×
N	ame Travel Photos	
		Add
New file set added su	iccessfully.	×
File Sets		▼ ? + ×
Keywords	Type Public Sets Search	
VIEWING 1 TO 1 (1	TOTAL)	Add File Set
🔩 Travel Photos	\$ 	

To assign a file into a set, go back to the File Manager. Click on the file and choose Sets from the drop-down menu.

File Manager				
Keywords		In Set(s) Select Some Op		
** With Selected	T	Chc		
Thumbnail Ty	/pe Title	¢.		
□ 📷 ★ JP	PEG sh_thumbnail.jpg	• 1		
🗆 📻 🌸 JP	PEG northern_az 🖋 Edit	1		
🗆 🛛 🖬 🖬 👷 JP	PEG europe_sp: Replace	es 1		
🗆 📰 🚖 JP	EG europe_val 🗗 Copy	1		
🗆 🔝 🚖 JP	PEG europe_rot Access 8	Permissions 1		
	EG europe_ge	1		
🗆 🖬 📩 JP	PEG europe_england_stonehe	enge.jpg 1		

In the Sets Window, the set(s) where the file will be assigned to and click Update.

Sets	
۹	
 Travel Documents Travel Photos 	
Add to New Set	
Update	

To view files in a specific set, click the In Set(s) textbox and select the Set from the choices.

File Manager				▼ ? ★ X
Keywords	In Set(s)	# Pr	A er Page 10 • Se	dvanced Search ▼ aarch
** With Selected	Travel Phot Other	os psen	Upload File	Upload Multiple
Thumbnail Type Title	Files in no	o sets.	Active	Size
🗆 📄 🚖 JPEG sh_thu	umbnail.jpg	11/20/2014 at 7:47 AM	11/20/2014 at 7:47 AM	14.89 KB
🗆 📩 🌸 JPEG northe	ern_az_lake_powell_house_boats.jpg	11/20/2014 at 7:47 AM	11/20/2014 at 7:47 AM	221.66 KB
🔲 🖬 🖬 👷 JPEG europe	e_spain_grenada_alhambra.jpg	11/20/2014 at 7:47 AM	11/20/2014 at 7:47 AM	313.29 KB
🗆 📰 😭 JPEG europe	e_valencia_hemispheric.jpg	11/20/2014 at 7:47 AM	11/20/2014 at 7:47 AM	256.52 KB
🗌 📰 👷 JPEG europe	e_rotterdam_port.jpg	11/20/2014 at 7:47 AM	11/20/2014 at 7:47 AM	199.01 KB
🗆 📰 👷 JPEG europe	e_germany_munich_arch.jpg	11/20/2014 at 7:47 AM	11/20/2014 at 7:47 AM	223.86 KB
🔲 🖬 👷 JPEG europe	e_england_stonehenge.jpg	11/20/2014 at 7:47 AM	11/20/2014 at 7:47 AM	280.13 KB
🗆 🕅 👷 JPEG englar	nd_village.jpg	11/20/2014 at 7:47 AM	11/20/2014 at 7:47 AM	325.31 KB
File Manager				▼ ? ★ X
Keywords	In Set(s) Tra	vel Photos ×	# Per Page 10	Advanced Search Search
** With Selected	•	Choose File No file	chosen Up	load File Upload Multiple
Thumbnail Type Tit	tle	Added 👻	Active	Size
🔲 👷 JPEG nor	rthern_az_lake_powell_house_boats.jpg	11/20/2014 at 7:47	AM 11/20/2014 at	7:47 AM 221.66 KB
🗆 📊 😭 JPEG sh	_thumbnail.jpg	11/20/2014 at 7:47	AM 11/20/2014 at	7:47 AM 14.89 KB
🗌 🖬 🖬 👷 JPEG eu	rope_spain_grenada_alhambra.jpg	11/20/2014 at 7:47	AM 11/20/2014 at	7:47 AM 313.29 KB
VIEWING 1 TO 3 (3 TOTAL)				

7.5.4 Concrete5 Users and Groups

To create a new Concrete5 user, open the Dashboard. Under Members click Search Users. In the Search User dialog, click the Add User button. Complete the information in the Add User dialog.

Add User	▼ ? ★ ×
User Information	
Username *	Password *
Email Address *	User Avatar
	Choose File No file chosen
Language	
English (United States)	
Registration Data	
I would like to receive private messages.	
Send me email notifications when I receive a private message. Yes	
Groups	
Administrators	
	Add

To create a User Group, open the Dashboard. Under Members click User Groups. In the Groups dialog, click the Add Group button. Complete the information in the Add User dialog.

Add Group		•	?	*	×
Name					
Description					
Group Expiration	Options				
	Automatically remove users from this group				
	at a specific date and time				
			1	dd	

To assign a user to a group, open the Dashboard. Under Members, click Search Users and select the user you want to assign to a group. In the View User dialog, click Edit User.

View User		•	?	*	×
Edit User Deactivate User Sign In as User Delete Use	ar Account				
Basic Details					
foofighters					
nathan.parian@yahoo.com					
Account created on 11/25/2014 at 8:21 AM. Last logged in from IP	: 0.0.0.0.				
User Attributes					
I would like to receive private messages.	Yes				
Send me email notifications when I receive a private message.	Yes				
Groups Administrators	11/25/2014 at 8:21:41 AM				

In the Edit User dialog, click the Add Group button.

Edit User		▼ ? ★ X
User Information		
Username *	Email Address *	User Avatar
[foofighters]	nathan.parian@yahoo.com	Choose File No file chosen
Change Password (Leave these fields b	plank to keep the same password)	
Password	Password (Confin	m)
Default Language		
English (United States)		
Groups		Add Group
 Administrators 		
Back		Update User
Other Information (Click field name to	edit)	
I would like to receive private messages.	Yes	8
Send me email notifications when I receive a private message.	Yes	8

Select the group to add in the Add Groups dialog.

Edit User		▼ ? ★ X
User Information		
Username *	Email Address *	User Avatar
foofighters	Add Groups	Choose File No file chosen
Change Password (Leave the Password	Search	
Default Language	/IEWING 1 TO 2 (2 TOTAL)	
English (United States) Groups Gamma Administrators	Fighters - We have stamina and endurance	Add Group
Back		// Update User
Other Information (Click field	name to edit)	
I would like to receive private messages.	Yes	8
Send me email notifications wi receive a private message.	nen I Yes	

The newly selected group should now be listed in the Edit User dialog. Click the Update User button.

Groups	Add Group
 ✓ Administrators ✓ Fighters 	
Back	Update User

7.5.5 Concrete5 System & Settings > Allowed File Types

To add a file type/extension, open the Dashboard. Click System & Settings. In the Permissions & Access section, click Allowed File Types. Type your file extension(s) and hit the Save button. Only files with the declared extensions will be allowed. Separate extensions with commas. Periods and spaces will be ignored.

Allowed File Types		?	*	×
Only files with the following extensions will be allowed. Separate extensions with con and spaces will be ignored.	nmas	. Pe	riods	5
flv, jpg, gif, jpeg, ico, docx, xla, png, psd, swf, doc, txt, xls, xlsx, csv, pdf, tiff, rtf, n mov, wmv, mpeg, mpg, wav, 3gp, avi, m4v, mp4, mp3, qt, ppt, pptx, kml, xml, svg, ogg, ogv, bmp	14a, webr	n,		
		1		
		s	ave	

7.6 Magento

7.6.1 Setting up XAMPP and Magento Admin Panel

1. Magento requires that XAMPP be installed. Download it at

https://www.apachefriends.org/index.html

Follow the XAMPP installation instructions.

At Select Components, select only the following and click Next:

- MySQL
- PHP (By default, this is already selected)
- phpMyAdmin

Select Components	<mark>ເ</mark> ສ
Select the components you want to install; o Next when you are ready to continue.	dear the components you do not want to install. Click
(AMPP Installer	< Back Next > Cancel

Run the XAMPP Control Panel.

Click the Start button for Apache and MySQL. It should look like the image below
		XAMPP	Control Panel v	3.2.1 [Con	npiled: May	7th 2013]		
23	XAI	MPP Cont	rol Panel v3	.2.1				🥜 Config
Modules Service	Module	PID(s)	Port(s)	Actions				i Netstat
×	Apache	3348 1192	443, 8008	Stop	Admin	Config	Logs	Shell
×	MySQL	2276	3306	Stop	Admin	Config	Logs	Explore
×	FileZilla			Start	Admin	Config	Logs	🐶 Service
	Mercury			Start	Admin	Config	Logs	😡 Help
	Tomcat			Start	Admin	Config	Logs	Quit
13:20 PM 13:20 PM 13:20 PM 13:20 PM 13:20 PM 13:20 PM 13:20 PM 13:27 PM 13:27 PM 13:27 PM	A [main] A [main] A [main] A [main] A [main] A [main] A [Apache] A [Apache] A [mysql]	All prerequisi Initializing M The Mercury The Tomcat Starting Chene Control Pane Attempting to Status chang Attempting to	tes found odules module is disable ck-Timer I Ready o start Apache app ge detected: runnin o start MySQL app	d i 5 ng 5				

2. Create the Magento database in MySQL prior to installing Magento. Click MySQL Admin button in the XAMPP control panel, doing redirects to phpMyAdmin (the MySQL database warehouse).

phpMuAdmin	- 📑 Server: mysql wampserver	~								
<u>Ω</u> € 0 0 ¢	🕢 Databases 💭 SQL 🐁 Status 🖭 Users 🖼 Export 🖼 Import 🥜 Settings 🎚 Replication	➢ Variables								
(Recent tables)	General Settings	Database server								
information_schema magento mysql performance_schema	E Server connection collation : utf3mb4_general_ci	Server: mysql wampserver (127.0.0.1 via TCP/IP) Server type: MySQL Server version: 5.6.17 - MySQL Community Server (GPL)								
test	Appearance Settings	Protocol version: 10 User: root@localhost Server charset: UTF-8 Unicode (utf8)								
	Theme: pmahomme									
	• Font size: 82% •	Web server								
	الله المراجع ال	 Apache/2.4.9 (Win64) PHP/5.5.12 Database client version: libmysql - mysqlnd 5.0.11-dev - 20120503 - \$Id: b/9ad53b11c9a57efdb1067292d73b928b8c5c77 \$ PHP evtencien: mysqli 								
		• คาต องอาจเก. การจนุก 🦦								
		phpMyAdmin								
		Version information: 4.1.14, latest stable version: 4.3.2								
		Documentation Wiki								
		Official Homepage Contribute								
		Get support								
		List of changes								
	A never version of ohoM/vAdmin is available and you should consider upgrading. The nevest version is 4.3.2 released on 2014-12-12									
		100-17-0-1								
	O Your configuration file contains settings (root with no password) that correspond to the default MySQL privileged account. should fix this security hole by setting a password for user 'root'.	Your MySQL server is running with this default, is open to intrusion, and you really								

- 3. Browse to https://www.apachefriends.org/add-ons.html, choose Magento and download the Windows platform installer. This is a Community Edition of Magento.
- 4. Unpack/unzip the Magento installer.
- 5. Add the magento folder from the Magento zip file to the XAMPP htdocs folder (*C:\Xampp\htdocs*).
- 6. Browse to http://127.0.0.1/magento/ (the Magento web-based installation wizard).

- 7. Follow the instructions.
- 8. In the installation procedure's Configuration section, type root in the User Name field and leave the User Password blank. Click continue
- 9. Upon completion of the setup, the encryption key will be provided.
- 10. Click the Go to Backend button to go the Magento Admin Panel. Use the username and password you created during installation to log in.

Magento	Log in to Admin Panel		
ē	User Name:	Password:	
	Forgot your password?	Login	
	Magento is a trademark of Ma	gento Inc. Copyright © 2014 Magento Inc.	

11. After logging in, the default Dashboard will be displayed.

Magento ⁻ Admin Pane	l					Global Recor	d Search	Logged in as re	edpointuser Tu	esday, December 16, :	2014 <u>Try Magento Go for Free</u>
ashboard Sales Catalog											
{base_uri}} is not recommended to use i	n a production environ	nment to declar	re the Base Un	secure URL / Ba:	se Secure URL. It is h	ighly recommended to change t	his value in your Magento	configuration.			
One or more of the Cache Types are in	nvalidated: Blocks H	TML output. CI	ick here to go t	o <u>Cache Manage</u>	ament and refresh cac	he types.					
atest Message: Magento Community E	dition 1.9.1 is available	el Read details						You have 1	critical, 5 major, 1	9 minor and 73 notice	unread message(s). Go to messag
One or more of the Indexes are not up	to date: Product Pri	ices, Catalog S	earch Index, St	ock Status. Click	k here to go to <u>index h</u>	Annagement and rebuild required	l indexes.				
hhoard											
inpoard											
Lifetime Sales											
	\$0.00						Chart is disabled.	If you want to enable	chart, click here	6	
Average Orders											
	\$0.00					SO.00	Tax \$0.00		Shipping		Quantity
									40.00		
Last 5 Orders											
Customer	1	Items	Grand T	otal	Bestsellers	Most Viewed Products	New Customers	Customers			
	No records found.				Product Name					Price	Quantity Ordered
Last 5 Search Terms								No records found.			
Search Term		Results	Number	of Uses							
bread			0	3							
RedPoint			0	1							
Top 5 Search Terms											
		Reaulta	Number	of Uses							
Search Term			0	3							
Search Term bread											

7.6.2 Setting up Credentials for RPI Configuration

1. In the Magento admin panel, navigate to System > Web Services > REST oAuth Consumers.

n Magento Admin Panel		
Dashboard Sales Catalog Mobile Customers Promotions Newsletter CMS Reports	System	
One or more of the Cache Types are invalidated: Blocks HTML output. Click here to go to Cache Management and refresh cache	My Account	
	Notifications	
OAuth Consumers	Tools	4
	Web Services	
Page I of 1 pages View 20 v per page Total 1 records found	Design	SOAP/XML-RPC - Users
Consumer Name	Import/Export	SUAP/XML-RPC - Roles
	Manage Curren	REST - Roles
1 rpidev	Transactional EL	REST - Attributes
	Custom Variable	REST - OAuth Consumers
	Permissions	REST - OAuth Authorized Tokens
	Magento Conne	REST - My Apps
	Cache Managem	ient
	Index Manageme	ent
	Manage Stores	
	Order Statuses	
	Configuration	

- 2. Click on the "Add New" button to add a new Consumer Application.
- 3. In the "New Consumer" screen insert a custom name.
- 4. The Key and Secret fields are disabled; copy their values for later usage in setting up the RPI connector's Consumer key and Consumer secret properties.
- 5. Set the Callback URL and save the Consumer app.

Magento ⁻ A	dmin Pane	el							
Dashboard Sales	Catalog	Mobile	Customers	Promotions	Newsletter	CMS	Reports	System	
One or more of the Cache Types are invalidated: Blocks HTML output. Click here to go to Cache Management and refresh cache types.									
Edit Consumer									
Consumer Information									
Name *		rpidev							
Key *		d250		fl					
Secret *		804v		cyq					
Callback URL		http://ww	w.example.com						
Rejected Callback UR	L								

- 6. Navigate to System > Web Services > REST Roles.
- 7. Click on the "Add admin Role" button in the top right corner. The "Add new Role" screen is shown.
- 8. In the field "Role name" enter e.g. "RESTadmin".

Magento ⁻ Admin Panel										
Dashboard	Sales	Catalog	Mobile	Customers	Promotions	Newsletter	CMS	Reports	System	
One or more of the Cache Types are invalidated: Blocks HTML output. Click here to go to Cache Management and refresh cache types.										
Role Informa	tion		E	dit Role 'RE§	STadmin'					
Role Info										_
Role API Res	ources		Role	Role Information						
Role Users			Ro	Role Name *		RESTadmin				

9. Click on the "Role API resources" tab on the left.

10. The "Role Resources" screen is shown. Select Custom as Resource Access and Product under Resources.

11. Click on the "Save Role" button in the top right corner of the screen.

Role Info		
ole API Resources	Edit Role 'REST	admin'
Role Users		
	Roles Resources	
	Resource Access	Custom v
	Resources	📥 🔄 🖌 Catalog
		e 🔄 🖉 Product
		e 🔄 🕜 Catalog Product
		🔄 🕑 Create
		🖳 🕢 Retrieve
		- 🔄 🕜 Update
		- 🔄 🖌 Delete
		😑 🔄 🕜 Product Category
		- 🔄 🗹 Create
		- 🔄 🗹 Retrieve
		🔤 🗹 Delete
		😑 🔄 🕑 Product Image
		🖳 🗹 Create
		- 🔄 🕢 Retrieve
		- 🔄 🕑 Update
		- 🔄 🖌 Delete
		😑 🔄 🕜 Product Website
		🔄 💽 🗹 Create

12. Navigate to System > Web Services > REST attributes.

13. Click on "Admin" in order to configure the REST resource attributes that Admins will be allowed to access.

14. In the "User type resources" screen, select the resources that Admin users are to access, or select "All".

ACL Attributes Information	Edit attribute rules for Admin Role
ACL Attribute Rules	
	User Type Resources
	Resource Access All 🔻

- 15. Click the "Save" button in the top-right corner.
- 16. Navigate to System > Permissions > Users. The "Users" grid is shown with a list of registered Magento site Administrators.
- 17. Click on an admin user in the list in order to open the "Edit user" screen.
- 18. Locate the "REST role" tab on the left. Click it and a list of Admin roles is shown on the screen.
- 19. Click on the "Assigned" radio box near the role name.

n Magento ⁻ Admin Panel										
Dashboard	Sales	Catalog	Mobile	Customers	Promotions	Newsletter	CMS	Reports	System	
🕕 One or more	of the Cach	e Types are ir	nvalidated: E	Blocks HTML o	utput. Click here to g	o to <u>Cache Manac</u>	<u>ement</u> and	refresh cache	types.	
User Informa	ation		E	dit User 'a	dmin'					
User Info User Role		Page	d <mark>1</mark> Þ	of 1 pages Vie\	v 20 v per	page T	otal 1 records	found		
REST Role		Assig	Assigned Role Name							
			Any	•						
			(RES	Tadmin					

20. Save the user.

7.7 Razuna

7.7.1 Razuna Installation

This section outlines how to setup Razuna for integration with the RPI Razuna external content plugin. Please follow the steps below:

1. Install Java JDK 7 (1.7) from this location: http://www.oracle.com/technetwork/java/javase/downloads/index.html.

Download the Java SE 7u71/72 JDK.

Installation Instructions	JDK
Release Notes	DOWNLOAD ±
Oracle License	
Java SE Products	Server JRE
Third Party Licenses	DOWNLOAD 🛨
Certified System Configurations	
Readme Files	IDE
JDK Readme	
JRE Readme	Source -

Choose the appropriate installer for your version of Windows.

Java SE Development Kit 7u72										
You must accept the Oracle Binary Code License Agreement for Java SE to download this										
	software.									
Thank you for acconting the Oracle Binary Code License Agreement for Java SE: you may now										
down	load this soft	vare.								
Product / File Description	File Size	Download								
Linux v0.6	110.42 MD	idle 7::72 linux iCOC mar								
	119.43 MB	jdk-/u/2-linux-i586.rpm								
LINUX X86	136.76 MB	Jdk-7u72-linux-i586.tar.gz								
Linux x64	120.83 MB	jdk-7u72-linux-x64.rpm								
Linux x64	135.64 MB	👱 jdk-7u72-linux-x64.tar.gz								
Mac OS X x64	185.83 MB	jdk-7u72-macosx-x64.dmg								
Solaris x86 (SVR4 package)	139.43 MB	🛓 jdk-7u72-solaris-i586.tar.Z								
Solaris x86	95.49 MB	🛓 jdk-7u72-solaris-i586.tar.gz								
Solaris x64 (SVR4 package)	24.58 MB	🛓 jdk-7u72-solaris-x64.tar.Z								
Solaris x64	16.34 MB	🛓 jdk-7u72-solaris-x64.tar.gz								
Solaris SPARC (SVR4 package)	138.61 MB	🛓 jdk-7u72-solaris-sparc.tar.Z								
Solaris SPARC	98.55 MB	🛓 jdk-7u72-solaris-sparc.tar.gz								
Solaris SPARC 64-bit (SVR4 package)	23.9 MB	jdk-7u72-solaris-sparcv9.tar.Z								
Solaris SPARC 64-bit	18.34 MB	🛓 jdk-7u72-solaris-sparcv9.tar.gz								
Windows x86	127.81 MB	jdk-7u72-windows-i586.exe								
Windows x64	129.52 MB	jdk-7u72-windows-x64.exe								

Additionally, you need to define system wide environment variables called JAVA_HOME and JRE_HOME. The path to Java will be (depending on your installation):

C:\Program Files\Java\jdk7.xxx (JAVA_HOME) or C:\Program Files\Java\jre7 (JRE_HOME).

It is crucial that the JAVA_HOME variable is set correctly:

- a) Click Start. Right click Computer and click Properties.
- b) In the Control Panel Window, click Advanced System Settings.
- c) In the System Properties Window, go to the Advanced tab and click Environment Variables.
- d) Click the New' button under Environment Variables.

ser variables for N	PARIAN
Variable	Value ^
Path	C:\Program Files\Intel\WiFi\bin\;C:\Prog
TEMP	%USERPROFILE%\AppData\Local\Temp =
TMP	%USERPROFILE%\AppData\Local\Temp
	-
	New Edit Delete
ystem variables Variable	Value
ystem variables Variable Path	Value C:\Program Files (x86)\ImageMagick-6
ystem variables Variable Path PATHEXT	Value C: \Program Files (x86)\ImageMagick-6 COM;.EXE;.BAT;.CMD;.VBS;.VBE;.JS;
ystem variables Variable Path PATHEXT PROCESSOR_A	Value C:\Program Files (x86)\ImageMagick-6 .COM;.EXE;.BAT;.CMD;.VBS;.VBE;.JS; AMD64 Intel64 Exercise 5 Medel 42 Streamine 7.0
ystem variables Variable Path PATHEXT PROCESSOR_A PROCESSOR_ID	Value C:\Program Files (x86)\ImageMagick-6 .COM;.EXE;.BAT;.CMD;.VBS;.VBE;.JS; AMD64 Intel64 Family 6 Model 42 Stepping 7, G
ystem variables Variable Path PATHEXT PROCESSOR_A PROCESSOR_ID.	Value C:\Program Files (x86)\ImageMagick-6 .CON;.EXE;.BAT;.CMD;.VBS;.VBE;.JS; AMD64 Intel64 Family 6 Model 42 Stepping 7, G New Edit Delete

e) Add a new variable named JAVA_HOME and put Java's JDK directory in your system:

Variable name:	JAVA_HOME	
Variable value:	C:\Program Files\Java\jdk1.7.0_67	

f) Add another variable named JRE_HOME and put the JRE's directory in your system:

Variable name:	JRE_HOME
Variable value:	C:\Program Files\Java\jre7

- 2. Install the 32-bit version of GhostScript from: http://downloads.ghostscript.com/public/. Download the file: gs909w32.exe. Ghostscript is an interpreter for PostScript[™] and Portable Document Format (PDF) files. It helps Razuna with handling PDF documents.
- 3. Install ImageMagick from: http://www.imagemagick.org/script/binary-releases.php#windows. Make sure to use the recommended release (Win32 dynamic at 16 bits-per-pixel; filename: *ImageMagick-6.8.9-7-Q16-x86-dll.exe*). ImageMagick is required by Razuna for handling and storing image files.
- 4. Install FFMpeg from: http://ffmpeg.zeranoe.com/builds/. Please install the following builds only:

Platform	URL
32-bit	http://ffmpeg.zeranoe.com/builds/win32/static/ffmpeg-20140506-git-2baf1c8- win32-static.7z
64-bit	http://ffmpeg.zeranoe.com/builds/win64/static/ffmpeg-20140506-git-2baf1c8- win64-static.7z

Extract the archive and move it to the C:\ffmpeg directory. FFMpeg is required by Razuna to handle audio and video files.

- 5. Install the latest Exiftool from: http://www.sno.phy.queensu.ca/~phil/exiftool/. Once downloaded, create a folder on C: called exiftool and copy or move the downloaded executable to it. Then rename the executable to exiftool.exe (you need to rename the executable or else it will not work). Exiftool runs on all versions of Windows. Exiftool helps Razuna in writing meta information to files.
- Install UFRaw from: http://sourceforge.net/projects/ufraw/files/ufraw/ufraw-0.19.2/ufraw-0.19.2-2-setup.exe/download. UFRaw helps Razuna in handling and reading RAW type of image files.
- 7. Install MP4Box from: http://www.videohelp.com/tools/MP4Box. Once downloaded execute the installer. Make sure to install it to the C:\MP4Box directory.
- If you have not already done so, download the latest (currently 1.7) Razuna Stand-alone release from http://razuna.org. We recommend to extract Razuna to the C: directory. Ensure that there are no spaces in the Razuna path. The Razuna standalone server comes with Tomcat pre-configured.

Razuna 1.7 Stand-alone Server

The Stand-alone Razuna Server can be used to deploy Razuna. It is build on the Tomcat J2EE Server. This is by far the fastest and easiest way to get Razuna up and running. It is the recommended path for new users.

Download Razuna Stand-alone Server

Razuna is available under a dual license; AGPLv3 and commercial. Need support? The Razuna support plans get you up and running in no time.

- The download above will install Razuna with Tomcat. You must update Razuna to include patches from: https://github.com/razuna/razuna. Click the Download Zip file button to get Razuna with the patches.
- Extract the newly downloaded master.zip archive and copy its contents into your Razuna directory (C:\razuna_tomcat_1_6_5\tomcat\webapps\razuna; note that your directory may vary depending on your installation). Delete all the contents of the destination folder first before copying.

Downloads 🕨 razuna-master 🕨 razuna-master 🕨			
rary ▼ Share with ▼ Burn New folder			
Name	Date modified	Туре	
🐌 admin	12/14/2014 8:35 AM	File folder	
🐌 assets	12/14/2014 8:35 AM	File folder	
퉬 bluedragon	12/14/2014 8:35 AM	File folder	
🐌 doc	12/14/2014 8:35 AM	File folder	
퉬 global	12/14/2014 8:35 AM	File folder	
🐌 Installation	12/14/2014 8:35 AM	File folder	
📙 licenses	12/14/2014 8:35 AM	File folder	
🐌 razuna-receiver	12/14/2014 8:35 AM	File folder	
🐌 WEB-INF	12/14/2014 8:35 AM	File folder	
gitignore	12/14/2014 8:35 AM	GITIGNORE File	
index.cfm	12/14/2014 8:35 AM	CFM File	
README.TXT	12/14/2014 8:35 AM	Text Document	
📄 robots.txt	12/14/2014 8:35 AM	Text Document	

- 11. Finally, start the application server. In order to do so, navigate to the bin directory in the Razuna folder
- (../tomcat/bin/) and start the server with the command: ./startup.bat
 12. Once the server has started successfully you should navigate to http://localhost:8080/razuna and you will be presented with the First-time Wizard to finish the setup.
- 13. In the First-time wizard, choose Standard Installation.

Kazuna Ser Razuna needs : nore informatic or with a suppo	up yvizaro ome information before it can be fully ir n, check out the <u>online quide</u> . If you get : t subscription ask us directly.	nstalled. If at any stage of the installation you need stuck, you can visit our <u>Razuna Customer Communit</u>
Choose Ins	tallation Type	
'here are two w Aethod.	ays to install Razuna. If you are in doubt	t we strongly suggest using the Standard Installation
Standard	nstallation	
Install Razuna quickest way f of database w	with the default settings and with the er o get Razuna installed and running (Dor ithin the system at any stage).	mbedded database. This is by far the easiest and n't worry, if you wish you can upgrade to another type
		Standard Installation
Custom Ir	stallation	
Perform a cus or restore fror	tomized setup. Select this option if you ง า a backup.	want to configure Razuna with an external database,
		Custom Installation

14. Complete the appropriate directories for each installation. For example: for the exiftool, specify C:\exiftool.

or with a support	ubscription ask us directly.	
Application Enter below the p to process asset	Paths ths to required third party applications. These applications are needed by Razuna in or successfully. Note: You can also enter these paths later on in Razunal	der
ImageMagic Enter here the ab modify your imag /usr/local/bin (Un	c olule path to your (mageMagick installation, imageMagick is being used by Razuna to s. Nost of the time ImageMagick is installed at C:Program FilesImageMagick (Window: /LinuxMacOS X), DO NOT enter a trailingslash at the endi) or
C:\Program File	s (x86)VmageMagick-6.8.9-Q16	
Executable exists	You are good to go!	
Enter here the ab	olute path to your FFMpeg installation. FFMpeg is being used by Razuna to modify your time FFMpeg is installed at C:Program FilesFFMpeg (Windows) or /usr/local/bin	
(Unix/Linux/MacO	X). DO NOT enter a trailingslash at the end!	
(Unix/Linux/MacO C:/ffmpeg\bin Executable exists Exiftool Enter here the ab	X). DO NOT enter a trailingsiash at the end! You are good to go! olute path to your Exitbool installation. Exitbool is being used by Razuna to read/write	
(Unix/Linux/MacO C:1ffmpegibin Executable exists Exiftool Enter here the ab metadata. Most o (Unix/Linux/MacO	X). DO NOT enter a trailingslash at the endl You are good to gol olute path to your Exittool installation. Exittool is being used by Razuna to read/write the time Exittool is installed at C Program FilesExittool (Windows) or /usr/local/bin X). DO NOT enter a trailingslash at the endl	
(Unb/Linux/MacO C:fffmpeg\bin Executable exists Exiftool Enter here the ab metadata. Most o (Unb/Linux/MacO C:texiftool	Xo. DO NOT enter a trailingslash at the endi You are good to go! Journey and the span sector of the sect	
(Univ/Linux/MacO C:tffmpegibin Executable exists Exiftool Enter here the ab metadata. Most o (Univ/Linux/MacO C:texiftool Executable exists	Xo. DO NOT enter a trailingslash at the endi You are good to gol Journey and the statistic stati	
(Unix/Linux/MacO C:ffmpegibin Executable exists Exiftool Enter here the ab metadata. Most o (Unix/Linux/MacO C:texiftool Executable exists DCRaw Pat Enter here the ab Images to differe your copy from th	Xo. DO NOT enter a trailingsiash at the endi You are good to got olute path to your Exitool installation. Exitfool is being used by Razuna to read/write the time Exitool is installed at C-Program FilesExitool (Windows) or /usr/local/bin Xo. Do NOT enter a trailingsiash at the endi You are good to got (optional) olute path to your DCRaw installation. DCRaw is being used by Razuna to convert RAV Tormats. Installation of DCRaw is described within the installation manual, you can gr DVD we supplied or download the latest version from the trailingsite. Do NOT enter a endl	b
(Unix/Linux/MacO C:ffmpegibin Executable exists Exiftool Enter here the ab metadata. Most o (Unix/Linux/MacO C:Aviftool Executable exists DCRav Pat DCRav Pat Enter here the ab images to differe your copy from th trailingslash at th C:dcraw	Xo. DO NOT enter a trailingsiash at the endi You are good to gol olute path to your Exitool installation. Exitfool is being used by Razuna to read/write the time Exitool is installed at C-Program FilesExitool (Windows) or /usr/local/bin Xo. Do NOT enter a trailingsiash at the endi You are good to gol (optional) olute path to your DCRaw installation. DCRaw is being used by Razuna to convert RAV formats. Installation of DCRaw is described within the installation manual, you can go DVD we supplied or download the latest version from their website. DO NOT enter a and	b
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15. Enter the Administrator account's details. Click Finalize Setup.

Razuna Setup Wizard	
Razuna needs some information	before it can be fully installed. If at any stage of the installation you need
nore information, check out the <u>o</u>	inline guide. If you get stuck, you can visit our <u>Razuna Customer Community</u>
or with a support subscription as	k us directly.
System Administration	Account
Please enter the required informa	ation for your System Administration Account. This user is the System
Administrator and has access to	all settings.
Username	
Administrator	
First Name	
1	
1	
Last Name	
oMail	
ciwan	
Decomord	
Passwoiu	
Confirm Password	
Васк Стального Стальн	Finalize Setup

7.7.2 Setting Up a Tenant

- 1. Login to Razuna: http://localhost:8080/razuna.
- 2. Once logged in, you will see Razuna's menu on the left.

III RAZUNA
System
» General Configuration » Plugins
🖌 Users / Groups
<u>» Users</u>
Tenants
<u>» List/add tenants</u> <u>» Tenant Settings</u>

- 3. Click on List/add tenants.
- 4. On the new page, click the Add a Tenant tab. Type the name of the tenant and click Add Tenant.

In the image below, Demo is the default tenant when installing Razuna. It has an ID of 1. RPI is a useradded tenant with an ID of 2.

Tenants	Add a Tenant	
Tenants		
Demo (ID	<u>: 1)</u>	Upgrade Settings Reset Cache
RPI (ID: 2)	Upgrade Settings Reset Cache Remove

Clicking on a tenant will display the Edit Tenant window. The folder name is listed below (note that this information is required when configuring the Razuna provider at RPI).

Edit Tenant Demo		×
Name of this Tenant	Demo	
Name of folder	raz1	
Size of folder	8.5M	
		Save

5. To load a tenant, choose it from the dropdown at the upper right. A new tab will open. You will have to log in to access the tenant.

Load tenant	-	Change language 👻
 Load tenant		
DEMO RPI		

 Iocalhost:80)80/razuna/raz2/dam/ind	lex.cfm?fa=c.main&_v=7DFCDB7B789E4DC098E	DE45A0ACF3F761	
	UNA	Quick Search	All Assets Search	Advanced Search
Folders v	Manage 🔻			
🗆 🚞 Uploads		Upload now	How	Ito get the most out of Razuna
🗑 <u>Trash</u>		Add your Files	<u>> How</u>	to add files to Razuna to share files with Razuna
			<u>> Make</u>	e good use of widgets
			<u>> Mana</u>	age users and groups
			<u>> Real</u>	world customer case

7.7.3 Users

1. To access Users, click Users from the menu on the left. The list of users will be displayed.

100se your host			
hoose your host for gett	ng the specific data for it		DEMO -
Users Add User			
Quicksearch			
Username	Company	eMail	
			Search
Username	First Name L	ast Name Company eM	ail
Administrator	Nathan Pari-	an	

The selected tenant is indicated in the Choose your host section. The users associated with the tenant are listed below.

Go to the Add User tab to create a new user.

2. Clicking on a user will display its properties window.

idit User Groups Tenants/Hosts API Key User can login eMail Image: Canadian and the set of	han Pari-an		×
User can login User can login User can login Administrator Password Password Password* Confirm Password* User First Name* Nathan Last Name* Pari-an Salutation Company Telephone Fax Mobile/Cell Expiration Date (mm/dd Wm/) Telephone Fax Mobile/Cell Expiration Date (mm/dd Wm/) Telephone Edit User Croups Tenants/Hosts API Key Digital Asset Management Site Administrator Company Comps Can access Digital Asset Management Site Administrator Comps Can access Digital Asset Management Site Administrator Comps Can access Digital Asset Management Site Administration Area Groups Can access Digital Asset Management Site Administrator Comps Can access Digital Asset Management Site Can a	Edit User Groups	Tenants/Hosts API Key	
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Nathan Pari-an	3	2
Edit User Groups Tenants/Hosts	API Key	
Tenants Ø Demo Ø RPI		
	Send user welcome email Save	J

X

Nathan Pari-an	x
Edit User Groups Tenants/Hosts API Key	
Below is your API Key. With it you can use the Razuna Desktop Uploader application and the Razuna API. Please refer to the <u>API documentation</u> . Please note, that currently we only support access by API from an account within the administrator group.	
C410	
In case your key has been tempered with or has become otherwise insecure <u>you can reset the API key</u> NOTE: You will need to use the new API key with your application. The reset takes effect immediately!	
Save Save	_

7.8 Azure Storage

This section describes how to configure the Azure Storage Service to support an RPI external content provider.

7.8.1 Azure Account Configuration

1. In a browser, log into 'portal.azure.com'.

MICroso	ft Azure
Sign in with you	ur work or school account
someone@exa	ample.com
Password	
🔲 Keep me sigi	ned in
Sign in	
Can't access your	r account?
Don't have an acc	count assigned by your work or school

2. After logging in you will be redirected to the Azure Portal home page.

		ces, services, and d	ocs (G+/)					Þ.	₽ 0	ŝ
Azure service	es									
+		•			۲	SQL	F	8	\rightarrow	
Create a resource	Storage accounts	Virtual machines	Service Bus	Azure Active Directory	App Services	SQL databases	Azure Database for PostgreSQL	Azure Cosmos DB	More servi	ices
Recent resou	irces									
Name				Type				Last Viewed		
rpisprint35				Storage	account (classic)			4 weeks ago		
Navigate	ons	a 💽	lesource groups		All resource	es	Da	shboard		
Tools										
Microsoft Learn Azu training f	Learn 🛃 ire with free online	. 🎯 (Azure Monitor Monitor your apps an nfrastructure	d	Security C Secure you infrastruct	enter ur apps and ure	Ar	ast Management alyze and optimize	e your	

3. Click Storage accounts (classic) to view the list of storage accounts for the Azure Storage service.

Azure services					
+					
Create a resource	Storage accounts	Virtual machines	Service Bus		
Recent resou	Storage accounts *				
Name pisprint35	+ Create	O View			
	Description				
Navigate	Create a stora 500TB of data purpose stora use a NoSQL o queues for me See more ~	ge account to store in the cloud. Use a ge account to store data store, define ar essage processing, a	up to general- object data, nd use ind set up		

\equiv Microsoft Azure									
Home >									
Storage accounts 🖈									
🕂 Add 🕲 Manage view 🗸 🖒 Refresh 🛓	Export to CSV 🛛 🧭 Assign tags 🛍 Delete 🗍 💙 Fe	edback							
Filter by name Subscription ==	all Resource group == all () Location == all ()	Add filter							
Showing 1 to 6 of 6 records.									
□ Name ↑↓	Type ↑↓	Kind ↑↓	Resource group $\uparrow \downarrow$						
🗌 🚍 i8oel	Storage account	Storage	MNL-maniladev						
🗌 🚍 mani	Storage account	Storage	MNL-maniladev						
🔲 🚍 mani	Storage account	Storage	MNL-maniladev						
🗌 🚍 mnir	Storage account	Storage	MNL-maniladev						
🔲 🚍 mnis	Storage account	Storage	MNL-maniladev						
🔲 🥅 rpisp	Storage account (classic)		New_Resource_Group						

4. Select your preferred account and view its details.

≡ Microsoft Azure		es, and docs (G+/)	区 66 0 00 ? (
Home > Storage accounts > Storage accounts rpidev-aad + Add ③ Manage view ~ ···	rpisprint35 % Storage account (dassic)	Some in Explorer → Move ○ Refresh <a>Belete <a>Gedback	
Filter by name Name 10	Cverview Activity log Access control (IAM) Diagnose and solve problems	 Available Classic alerts in Azure Monitor is announced to retire in 2021, it is recommended that you u more information, see Continue alerting with ARM storage accounts. Cl 	pgrade your classic alert rules to retain alerting functionality
E mai E mai E mai E mai	Storage Explorer (preview) Settings Access keys CORS Confouration	Resource group (change): New_Resource_Group Status : Primary: Available Location : Southeast Asia Subscription (change) : RedPoint: RPI Dev Subscription ID : ee81131e-d23a-41ab-9e88-d35431314af5	Performance : Standard Replication : Locally-redundant storage (LRS) Account kind : Storage (classic)
	 Shared access signature Migrate to ARM Properties Locks 	Containers Scalable, cost-effective storage for unstructured data Learn more	s Tables Tabular data storage Learn more
	Blob service Containers Custom domain Custom domain Custom containers	Queues Effectively scale apps according to traffic Learn more	

7.8.2 Adding an Azure Storage Container

- 1. Having clicked Containers, you can add a container and edit its privacy settings.
- 2. Add a Container.
- 3. Set its access type to Container. Note that if this setting is not changed, files will not be accessible in RPI.

rpisprint35 Cor Storage account (classic)	ntair	iers 🖉			
	~	+ Container 🛆 Change access level 💍 Refr	resh 🔟 Delete		
Overview	^				
Activity log		Name	Last modified	Public access level	Lease state
Access control (IAM)		audiovideo	11/16/2016 5:14:59 PM	Container	Available
Diagnose and solve problems		documents	11/16/2016 5:15:29 PM	Container	Available
🕍 Storage Explorer (preview)		exportfiles	11/16/2016 5:15:45 PM	Container	Available
Settings		images	11/16/2016 5:15:12 PM	Container	Available
📍 Access keys		nptestcontainer	7/2/2019 6:16:14 PM	Container	Available
S CORS		sarahfiles	7/16/2015 5:56:46 PM	Container	Available
🚔 Configuration		sarahfilesfinal	7/16/2015 5:54:39 PM	Container	Available
Shared access signature		sprint35container	6/1/2015 5:30:00 PM	Container	Available
Migrate to ARM		testcontainer	7/16/2015 5:54:18 PM	Container	Available
Properties					

New container	×
Name *	
testcontainer2020	\checkmark
Public access level ①	
Container (anonymous read access for containers and blobs)	\sim
▲ All container and blob data can be read by anonymous rec Clients can enumerate blobs within the container by anony request, but cannot enumerate containers within the stora account.	juest. /mous ge

- 4. Specify a name for the container and click Create.
- 5. Select the created container in the list and start uploading/viewing files.

	,O Search resources, services, and docs (G+/)		E	6	🖉 @ ? 😀	nimfa.perilla@redpoin RPIDEV
Home > Storage accounts > rpisprint3	5 Containers >				Upload blob	
Container	T Upload 👌 Change access level 🏷 Refresh 🗐 Delete ⇄ Change	e tier β^{c} Acquire lease δ^{c} Break lease A	🔊 View snapshots 🛛 🗐 Crea	te snaps	Files ① Select a file	
Access Control (IAM)	Location: testcontainer2020 Search blobs by prefix (case-sensitive)			•	 Advanced 	y exist
Settings	Name	Modified A	access tier Blob	ype		
Access policy	📄 📄 blueapple.png	6/5/2020 11:54:58 AM	Block blob		Upload	
Properties	Chrome.jpeg	6/5/2020 11:56:08 AM	Block	blob		
 Metadata 	E female.jpg	6/5/2020 11:56:08 AM	Block	blob	Current uploads	Dismiss: Comple
	male.jpeg	6/5/2020 11:56:08 AM	Block	blob	married.ipg	126 KiB / 126 KiB
	married.jpg	6/5/2020 11:56:08 AM	Block	blob	female.ipg	13 KiB / 13 KiB
	isingle.jpeg	6/5/2020 11:56:08 AM	Block	blob	single.jpeg	3 KiB / 3 KiB
	wall-murals-hello-kitty.jpg.jpg	6/5/2020 11:55:21 AM	Block	blob	male.jpeg	4 KiB / 4 KiB
	📄 📄 x.jpeg	6/5/2020 11:55:36 AM	Block	blob	Chrome.jpeg	5 KiB / 5 KiB
					xjpeg	🥝 6 KiB / 6 KiB
					wall-murals-hello-kitty.j	🥝 91 KiB / 91 KiB
					blueapple.png	🔮 2 KiB / 2 KiB

7.8.3 Azure CDN (Content Delivery Network) Configuration

- 1. In a browser, log into portal.azure.com
- 2. In the navigation panel, scroll down, and click More services > CDN Profiles, then Click Create.

		ces, services, and d	locs (G+/)					Þ	G 🗘 🏟	8 ? (
Azure service	25									
+		•		٠	۲	SQL	W	8	\rightarrow	
Create a resource	Storage accounts	Virtual machines	Service Bus	Azure Active Directory	App Services	SQL databases	Azure Database for PostgreSQL	Azure Cosmos DB	More services	

\equiv Microsoft Azure	∠ Search resources, services, and docs (G+/)	
All services $\begin{subarray}{c} \end{subarray} \end{subarray}$ Search All		
Overview	A NETWORKING (32)	
Categories	 ✓ Virtual networks 	A Load balancers
All	Local network gateways	CDN profiles
General	Natwork Watcher	
Compute		CDN profiles
Networking	Public IP addresses	-
Storage	On-premises Data Gateways	
Web		+ Create (o) View
Mobile	Application security groups	V Doos protection plans

3. To create a new CDN profile, complete the form's required details and click Create.

■ Microsoft Azure		
All services >		
CDN profile		\times
Name 🕇		
Test-CDN-Profile		~
Subscription *		
RedPoint: RPI Dev		\sim
Resource group *		
		\sim
Create new		
Resource group location ①		
East US		\sim
Pricing tier (View full pricing deta	ils) 🗙	
Standard Akamai		\sim
Create a new CDN endpoint n	ow	

4. Refresh the list of CDN profiles. Once your new profile is available, select it.

■ Microsoft Azure	Search resources, services, an	id docs (G+/)			N 🗗	۵ 🗘
All services >						
CDN profiles 🖈						
+ Add 🐵 Manage view 🗸 💍 Refresh 🞍 Export to CS	🖌 🛛 🖉 Assign tags 🔤 💙	Feedback				
Filter by name Subscription == all Res	ource group == all O	cation == all Add filter				
Showing 1 to 1 of 1 records.						
□ Name ↑↓	Pricing tier \uparrow_{\downarrow}	Resource ID \uparrow_{\downarrow}	Subscription \uparrow_{\downarrow}	Subscription ID \uparrow_{\downarrow}	Resource	egroup ↑↓
Test-CDN-Profile	Standard Akamai	/subscriptions/ee81131e-d23a-4	RedPoint: RPI Dev	ee8		

5. To add an Endpoint, click + Endpoint

\equiv Microsoft Azure	𝒫 Search resources, services, a	ind docs (G+/)		
All services > CDN profiles >				
CDN profiles « rpidev-aad	Test-CDN-Profile CDN profile	Å		
🕂 Add 🙆 Manage view 🗸 \cdots	» م	+ Endpoint β° Purge \rightarrow Move 📋	Delete	
Filter by name	 Overview 	Resource group (change) : MNL-maniladev		
Name 1	Activity log	Status : Active		
Test-CDN-Profile	Access control (IAM)	Subscription (change) : RedPoint: RPI De	v	
	Tags	Subscription ID : ee		if5
	Diagnose and solve problems			*
	Settings	Hostname	↑↓ Status	↑↓ Protocol
	Properties	No endpoints are associated with this profile	9	
	🗳 Quickstart	· · · · · ·		

6. Complete the form and click Add.

Add an endpoint	×
Allows configuring content delivery behavio	r and access.
Name *	
testcdn2020	
	.azureedge.net
Origin type 🗙	
Storage	\checkmark
Origin hostname 🕇 🛈	
rpisprint35.blob.core.windows.net	\checkmark
Origin path ①	
/Path	
Origin host header 🕕	
rpisprint35.blob.core.windows.net	\checkmark
Protocol ①	Origin port ()
ИТТР	80
	443
Optimized for (i)	
General web delivery	\sim

7. Wait while the CDN endpoint is created. Refresh the list of CDN profiles to view the newly-created endpoint.

\equiv Microsoft Azure		nd docs (G+/)							D. 17	۹	8 î) ©
All services > CDN profiles >												
CDN profiles « rpidev-aad	Test-CDN-Profile ScDN profile	2										
🕂 Add 🔯 Manage view 🗸 \cdots	»	+ Endpoint 🔗 Purge	→ Move 📋	Delet	e							
Filter by name	 Overview 	Resource group (change) :	MNL-maniladev					Pricing	Tier : Standard A	kamai		
Name 1	Activity log	Status :	Active									
Test-CDN-Profile	 Access control (IAM)	Subscription (change) :	RedPoint: RPI Dev									
- reactor rome	Tags	Subscription ID :	e									
	Diagnose and solve problems Settings	💑 Endpoints					\$					
	Setungs	Hostname		↑↓	Status	↑↓	Protocol	¢↓	Origin type	↑↓	Custo	m domains
	Properties	testcdn2020.azureedge.ne	t		Running		HTTP, HTTPS		Storage			
	n Quickstart											
	🔒 Locks											

8. Select the endpoint and scroll down to Origin.

\equiv Microsoft Azure	■ Microsoft Azure P Search resources, services, and docs (G+/)						
All services > CDN profiles > Test-CDN	-Profile > CDN-Profile,	/testcdn2020) Origin					
Search (Ctrl+/) «	🖫 Save 🗙 Di	Discard					
🖧 Overview	Origin type ★						
Activity log	Storage	~					
R Access control (IAM)	Access control (IAM) Origin hostname * ①						
Tags	rpisprint35.blob.c	core.windows.net					
Diagnose and solve problems	Origin host header	r 🛈					
Settings	rpisprint35.blob.c	core.windows.net					
\Xi Origin	/Path						
Custom domains	Protocol 🛈	Origin port 🕦					
Compression							
🔗 Caching rules		80					
🌻 Geo-filtering	✓ HTTPS 443						
Optimization							

9. Use the Origin hostname to configure the Azure Storage provider's Blob service endpoint property.

7.9 WebDAV

7.9.1 Installing WebDAV

- 1. On the taskbar, click Start, point to Administrative Tools, and then click Server Manager.
- 2. In the Server Manager hierarchy pane, expand Roles, and then click Web Server (IIS).
- 3. In the Web Server (IIS) pane, scroll to the Role Services section, and then click Add Role Services.
- 4. On the Select Role Services page of the Add Role Services Wizard, expand Common HTTP Features, select WebDAV Publishing, and then click Next.

Add Role Services		×
Select Role Servi	ces	
Role Services Confirmation Progress Results	Select the role services to install for Web Server (IIS): Role services: Web Server Common HTTP Features Static Content Default Document Directory Browsing HTTP Redirection WebVPUblishing Application Development ASP.NET MET Extensibility ASP GI ISAPI Filters Server Side Includes (Not Installed) Health and Diagnostics Health and Diagnostics More about role services 	Description: WebDAY Publishing (Web Distributed Authoring and Versioning) enables you to publish files to and from a Web server by using the HTTP protocol. Because WebDAY uses HTTP, it works through most firewalls without modification.

- 5. On the Confirm Installation Selections page, click Install.
- 6. On the Results page, click Close.

7.9.2 Enabling and adding an authoring rule in WebDAV

1. In IIS Manager, in the Connections pane, expand the Sites node in the tree, then click the Default Web Site.

- Connections Default Web Site Home 😪 - 🔚 🖄 😪 Open Feature Start Page - -3 Explore Filter: 🕶 🚏 Go 👒 🥁 Show All 🛛 Group by: Area .NET Profile .NET Roles Edit Permissions. .NET Error .NET Globalization .NET .NET Application Pools ⊿ Sites Authorizat... Compilation Pages Edit Site Default Web Site 2 Bindings. ab 1 8 Basic Settings. .NET Trust .NET Users Application Connection Machine Key Settings Strings Pages and Controls View Applications Levels Strings View Virtual Directo • 8 R Manage Website Providers Session State SMTP E-mail 2 Restart Stop IIS 0 2 Z 10 CGI **Browse Website** 0 Browse *:80 (http) CGI ASP Default Authentic Authorizat... Compression Advanced Settings Rules Document Configure NB. 10 -.... 404 Failed Request Tracing. HTTP Directory Browsing Failed Request Tra... Error Pages Handler HTTP Limits. Mappings Respon.. Add FTP Publishing. 16 3 jas Install Application From Gallery 1 IP Address and Doma.. ISAPI Filters MIME Types Modules Output Caching Logging Help 9 php -001-00-1A PHP SSL Settings URL Rew Request WebDAV Manager Filtering Authoring Rules Manager
- 2. As shown in the image below, double-click the WebDAV Authoring Rules feature.

3. When the WebDAV Authoring Rules page is displayed, click the Enable WebDAV task in the Actions page.

6		Internet Infor	mation Services (I	IS) Manager		_ 0 ×
CONTOSO-SERVE	ER 🕨 Sites	▶ Default Web Site →				🔯 🗵 🔐 🔞
File View Help						
Connections Image: Start Page	Use this fe	VebDAV Authorin	g Rules	s content.		Alerts The WebDAV feature has been disabled.
CONTOSO-SERVER (CONTOS Application Pools Sites	Path	Users	Roles	Access	Entry 1	Actions Add Authoring Rule
Default Web Site						Enable WebDAV
						WebDAV Settings
						😧 Help

4. Once WebDAV has been enabled, click the Add Authoring Rule task in the Actions pane.



- 5. When the Add Authoring Rule dialog appears:
 - a. Click All content to specify that the rule applies to all content types.
 - b. Choose Specified users and type "administrator" for the user name.
 - c. Select Read, Source, and Write for the permissions.
 - d. When you have completed these items, click OK.

	Add Aut	noring Ru	le	
Allow access to:				
 All content 				
 Specified conten 	t			
Example: *.bas, w	svc.axd			
Allow access to this	content to:			
O All users				
 Specified roles or 	user groups:			
Admin, Guest				
Specified users:				
administrator				
User1. User2				
Permissions				
✓ Read				
✓ Source				
Vrite				
		0	IZ	<u> </u>

7.9.3 Logging into the WebDAV site

- 1. In IIS Manager, in the Connections pane, expand the Sites node in the tree, then click the Default Web Site.
- 2. Double-click the Authentication feature.



 When the Authentication feature opens, make sure that Windows Authentication is enabled. If it is not enabled, select Windows Authentication, and click Enable in the Action menu.(Note: You can use Basic Authentication with WebDAV, but the WebDAV redirector will only use Basic authentication with SSL connections.)

8	Internet I	nformation Ser	vices (IIS) Manager	_ 0 ×	
CONTOSO-SERV	ER	•		🐸 🛎 🟠 I 😨	
<u>F</u> ile <u>V</u> iew <u>H</u> elp					
Connections	Authentication			Alerts	
Image: Start Page Image: Start Page Image: CONTOSO-SERVER (CONTOSO-SERVER (CONTOSO-SERVER (CONTOSO-SERVER (CONTOSO)) Image: Page: Pag	Authentication			🛕 Click here to learn how to	
	Group by: No Grouping 🔹			Protection.	
	Name	Status	Response Type	Actions	
	Anonymous Authentication ASP.NET Impersonation	Enabled Disabled		Disable	
	Basic Authentication	Disabled	HTTP 401 Challenge	Advanced Settings	
	Digest Authentication	Disabled	HTTP 401 Challenge	Providers	
	Forms Authentication	Disabled	HTTP 302 Login/Redirect	Help	
	Windows Authentication	Enabled	HTTP 401 Challenge		

4. In IIS Manager, click the Default Web Site under the Sites node in the tree.

Connections		Actions
😪 - 🔚 🖄 🛞	Default web Site Home	Open Feature
Start Page	Filter: • 🐨 😳 - 😓 Show <u>A</u> ll Group by: Area	Explore Edit Permissions
 ∠ Application Pools ∠ Sites ↓ ♦ ♥ 	NET .NET .NET Error .NET .NET Profile .NET Authorizat Compilation Pages Globalization	Roles
	INET Trust INET Users Application Connection Machine Key Page Levels Settings Strings Construction Machine Key Page Construction Strings Construction Strings Construction Settings Settings Construction Settings	se and ttrols ■ Manage Website
	IS ASP Authentic Authorizatio n Rules	Advanced Settings Configure fault Failed Request Tracing Limits
		Add FTP Publishing
	Directory Error Pages Failed Handler HTTP H Browsing Request Tra Mappings Redirect Res	TTP Install Application From Gallery

- 5. When the Authorization feature opens, make sure that an Allow rule is defined that includes the administrator account. (For example, the default rule for IIS allowing access to All Users will include the administrator account.)
- 6. On your WebDAV server, open a command prompt session.
- 7. Type the following command to connect to your WebDAV server: net use * http://localhost/

G 83.	Administrator: Command Prompt	>	¢,
(c) 2013 Mi	icrosoft Corporation. All rights reserved.		^
C:\Windows\ Drive Y: is	<pre>system32>net use * http://localhost/ now connected to http://localhost/.</pre>		=
The command	completed successfully.		
C:\Windows\	\system32>Y:		
Y:∖>dir Volume in Volume Sei	drive ¥ has no label. ∙ial Number is 0000-0000		
Directory	of Y:\		
02/21/2014 02/21/2014 02/21/2014 01/14/2014 02/28/2014 02/28/2014	02:10 PM (DIR) . 02:10 PM (DIR) . 01:58 PM 899 article.aspx 09:21 AM 91 test.asp 08:34 AM 1,435 web.config 3 File(s) 2,425 bytes 2 Dir(s) 123,961,274,368 bytes free		
Y : \>			\sim

7.10 Box

This section describes how to configure Box for use as an RPI external content provider.

 In a web browser, log into the Box developer site (https://developer.box.com/), using the "Log in" link. If you do not have an account, please create one by clicking "the Sign Up" link (proceed to the "Creating an Account" section below).



2. Enter your Full Name and Email Address to sign up.

Your Information	
Full Name	
Full Name	
Email Address	
Email Address	
Business Name (Optional)	
Business Name	
I'm not a robot	
Submit	

3. Click on the Confirmation Email sent to your email address and set your Password.

Verify your email to start using Box
Welcome to Box! Just verify your email to get started. We do this as a security precaution to verify your credentials. Verify Email If you did not sign up for Box, or believe an unauthorized person has signed up using your email address, please contact Box Support.
OCKID 2020 About Box • Privacy Policy • Edit Notification Settings • 900 Jefferson Avenue, Redwood City, CA 94068, USA

Enter your new password Before you can access your account (redpointuser2020@gmail.com), you need to create a new password. New Password	
Confirm Password	
Update	
Not redpointuser2020@gmail.com? Log out.	

4. Click the Create New App button.



5. Select Custom App then click Next.

	Let's get started. What ty	rpe of app are you building?	
Custom App	Enterprise Integration	Partner Integration	Tape People
Build a standalone app with Box's content services, such as managing and rendering files and enabling end-user collaboration. For developers using Box's content services without requiring Box user accounts.	Extend your Box instance with programmatic processes and backend integrations, such as user, group, and event management. For Box admins and developers building an integration for their existing Box users.	Allow users to access, edit, and save their Box content within your third-party apo, such as an e- signature or project management service. For developers building an integration for existing Box users.	Build a Custom Skill that processes files in Box using third- party AI/ML technologies. Custom Skills apply metadata to files, such as image labels or audio transcripts. For developers building content processing solutions.

6. Select Standard OAuth 2.0 then click Next.



7. Enter your application name then click Create App.

CREATE A NEW BOX APP
What would you like to name your app?
Don't worry—you can change this later.
AppBox2020
By clicking 'Create App', you agree to the terms of the Box Developer Agreement and the Box Privacy Policy.
Back Create App
· · ·
Woot! Your app has been created.
Make your first API call and retrieve a list of folders from your personal Box account using a developer token. This token will expire after 60 minutes.
curl https://api.box.com/2.0/folders/0 -H \ "Authorization: Bearer Jklx
View Your App

8. Click the View Your App button to get the created credentials.

A box Developers		
BB My Apps APPBOX2020 (3) General	Configuration Configure the authentication and permission	ns for your app to begin using the Box APIs. Check out our Getting Started Guide for a walkthrough of these settings.
Configuration Webhooks Integrations App Gallery REFERENCE SDKs	Authentication Method Choose how your app will authenticate to the Box APIs. Learn more.	Standard OAuth 2.0 (User Authentication) Requires Box users to log in with a username and password to authorize your app to access content in their account.
힌 API Docs ② Support		OAuth 2.0 with JWT (Server Authentication) Allows your app to authenticate directly to Box using a digitally signed JSON Web Token Instead of user credentials. For use with Service Accounts and App Users.
	Developer Token	Developer Token
	A developer token allows you to use the Box API to access your personal Box account only. This token is valid for 60 minutes.	Jkl COPY Revoke Created: May 10, 2020 at 10:16:22 PM PDT Expires: May 10, 2020 at 11:22:58 PM PDT
	OAuth 2.0 Credentials	Client ID
	Credentials for using OAuth 2.0 as your Authentication type.	pp: COPY Client Secret
		СОРҮ
		Reset

7.11 Amazon AWS S3

Follow the steps below to enable KMS encryption at an S3 bucket.

7.11.1 Enable Default Encryption for an S3 Bucket

This section describes how to enable encryption for AWS S3-KMS. Please follow the steps below:

- 1. Sign into the AWS Management Console and open the Amazon S3 console at https://console.aws.amazon.com/s3/.
- 2. In the Bucket name list, choose the name of the bucket that you want.



3. Show Properties.

Overview	Properties	Permissions	Management
ma March	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	man and	

4. Choose Default encryption.



5. Choose AWS-KMS, and then choose a master key from the list of the AWS KMS master keys that you have created. AES-256 is not supported in this context.

6. Type the Amazon Resource Name (ARN) of the AWS KMS key to use. You can find the ARN for your AWS KMS key in the IAM console, under Encryption keys, or you can choose a key name from the dropdown list.

Default encryption	×
This property does not affect existing objects in your bucket.	
None	
AES-256 Use Server-Side Encryption with Amazon S3-Managed Keys (SSE- S3)	
AWS-KMS	
Use Server-Side Encryption with AWS KMS-Managed Keys (SSE- KMS)	
Custom KMS ARN V	
Type to search Q	
aws/s3	
ca-key	
Custom KMS ARN	
View bucket policy	
	_
Cancel	

7. Press Save.

7.11.2 Create Master key for AWS-KMS

This section describes how to create an AWS-KMS master key. Please follow the steps below:

- 1. Open the IAM console at https://console.aws.amazon.com/iam/.
- 2. In the navigation pane, click Encryption keys.
- 3. Click Create Key.

Dashboard	Create Key Key Actions	•
Details	Filter: US East (N. Virginia) -	0 Search
Groups		
Users	Alias 🗢	Key ID 🗢
Roles	👔 aws/s3	6a4e4ad3-f951-400b-9040-21c5be0ec532
Identity Providers	👔 aws/ebs	6cfb2f97-4972-4f85-b3e2-c040ea97fb38
Password Policy	🧃 aws/redshift	86048d94-02be-48c5-8f95-945ff951af85
Credential Report		

4. Complete the app key and description fields then press **Next step**.

🎁 Services 🗸 Edit 🗸				
Create Key in US East (N. Virginia)	Create Alias a	and Description		
Step 1 : Create Alias and Description Step 2: Define Key Administrators	Define an alias and a desc Alias (required)	ription for this key. Properties of this key can AppKey		
Step 3: Define Key Usage Permissions	Description	key for application encryp		
m		~~~~~~	5. the	Check users and

roles who can administer the master key. Press Next step when done.

Virginia)	Define Key Administrators
Step 1: Create Alias and Description	Define which IAM users and roles within this account can administer th administer this key. Learn More.
Step 2 : Define Key Administrators	
Step 3: Define Key Usage Permissions	Search
	□ Name ≎
	✓ awscli
	awsroadtrip
	cwlogger

6. Select users and roles who can encrypt and decrypt data when using AWS services.

🎁 Services 🗸 Edit 🗸	
Create Key in US East (N. Virginia)	Define Key Usage Permissions
Step 1: Create Alias and Description Step 2: Define Key Administrators Step 3 : Define Key Usage Permissions	 This Account Define which users and roles in this account can use this key to encrypt and when using AWS services currently integrated with KMS. Users and roles in the key. Learn More.
	Search
	awscli awsroadtrip
	cwlogger dynamic-dynamodb
A contraction of the second	✓ jeff

7.

8. Press **Finish** to save the encryption key.

285

7.12 Google Cloud Storage

7.12.1 Create Google Cloud Storage Bucket

This section describes how to create and configure a new Google Cloud Storage Bucket. Please follow the steps below:

- 1. Open a web browser and navigate to <u>https://console.cloud.google.com</u> to logon to the Google Cloud Console.
- 2. From the left side menu, under the Storage section, click **Storage > Browser**.
- 3. On the Browser page, click Create Bucket.

Browser 😨 CREATE BUCKET C REFRESH 👕 DELETE

4. Create your bucket by entering the required fields in the Create Bucket step-by-step process.

←	Create a bucket
•	Name your bucket Pick a globally unique, permanent name. <u>Naming guidelines</u>
	Ex. 'example', 'example_bucket-1', or 'example.com'
	Tip: Don't include any sensitive information
	CONTINUE
•	Choose where to store your data
•	Choose a default storage class for your data
•	Choose how to control access to objects
•	Advanced settings (optional)
CR	EATE CANCEL

7.12.2 Create API Credentials

5. From the Menu on the left, click **APIs and Services** > **Credentials**

6. Click the **Create Credentials** button on the Credentials page and select **API key** from the dropdown menu.

Credentials
Create credentials
API key Identifies your project using a simple API key to check quota and access
OAuth client ID Requests user consent so your app can access the user's data
Service account key Enables server-to-server, app-level authentication using robot accounts
Help me choose Asks a few questions to help you decide which type of credential to use

7. The API key will be used within the configuration of the Google Cloud Storage ECP. After the API key is created and displayed, click **Restrict Key**.

API key created	
Use this key in your application by passing it with the key=API_KEY	parameter.
Your API key	G
CLOSE	RESTRICT KEY

8. Set the API key's Application restrictions and API restrictions.

_			
÷	Restrict and rename API key	C REGENERATE KEY	DELETE
	Application restrictions		
	An application restriction controls which websit API key. You can set one application restriction p	es, IP addresses, or application per key.	is can use your
	None		
	O HTTP referrers (web sites)		
	O IP addresses (web servers, cron jobs, etc.)		
	O Android apps		
	O iOS apps		
	API restrictions		
	API restrictions specify the enabled APIs that th	is key can call	
	O Don't restrict key		
	This key can call any API		
	Restrict key		
	Select APIs		•
	Coloreta d A Dire		
	Selected APIS:		
	Note: It may take up to 5 minutes for settings to	take effect	
	_		
	SAVE CANCEL		
Note: If an application restriction is configured, HTTP referrers is required for RPI to connect to Google Cloud Storage. For API restriction, make sure Cloud Storage, Cloud Storage API, and Google Cloud Storage JSON API restrictions are checked.

٧n	1 mil	· Novi can act and application restriction per law		
9	Ŧ	Filter Type to filter		
[-	ologa nanane oomgalaalon / i		
1		Cloud Spanner API		
2		Cloud SQL		
2	~	Cloud Storage		
4	~	Cloud Storage API		
4		Cloud Testing API		
		Cloud Trace API		
1		Compute Engine API		
1		Compute Engine Instance Group Manager API		
ł		CAN	CEL OF	c ·
1				
	Ŧ	Type to filter		
	=	Type to filter Firebase Remote Config API		•
	= 	Type to filter Firebase Remote Config API Firebase Rules API		•
	= 0 0	Type to filter Firebase Remote Config API Firebase Rules API Google Cloud APIs		•
	= 0 0	Type to filter Firebase Remote Config API Firebase Rules API Google Cloud APIs Google Cloud Memorystore for Redis API		•
		Type to filter Firebase Remote Config API Firebase Rules API Google Cloud APIs Google Cloud Memorystore for Redis API Google Cloud Storage JSON API		•
		Type to filter Firebase Remote Config API Firebase Rules API Google Cloud APIs Google Cloud Memorystore for Redis API Google Cloud Storage JSON API Identity Toolkit API		•
		Type to filter Firebase Remote Config API Firebase Rules API Google Cloud APIs Google Cloud Memorystore for Redis API Google Cloud Storage JSON API Identity Toolkit API Kubernetes Engine API		•

- 9. Create your OAuth client ID. Click the Create Credentials button on the Credentials page. Select OAuth client ID from the drop-down menu.
- 10. On the Create OAuth client ID page, select Web application as the application type. Provide a name to your ID and set an authorized redirect URI. Make sure that the redirect URI has been added to the Authorized Domains list. This can be configured in the OAuth consent settings page.

For applications that use the OAuth	2.0 protocol to call Google APIs, you can use an OAuth 2.0 client ID to
generate an access token. The toke	en contains a unique identifier. See Setting up OAuth 2.0 for more information
Application type	
 Web application 	
Android Learn more	
Chrome App Learn more	
Other	
0	
Web client 4	
Restrictions	
Enter JavaScript origins, redirect URIs,	or both Learn More
Origins and redirect domains must be	added to the list of Authorized Domains in the OAuth consent settings.
Authorized JavaScript origins	
Authorized JavaScript origins For use with requests from a brow	ser. This is the origin URI of the client application. It can't contain a wildcard
Authorized JavaScript origins For use with requests from a brow (https://* example.com) or a path	ser. This is the origin URI of the client application. It can't contain a wildcard (https://example.com/subdir). If you're using a nonstandard port, you must include i
Authorized JavaScript origins For use with requests from a brow (https://*.example.com) or a path in the origin URI.	ser. This is the origin URI of the client application. It can't contain a wildcard (https://example.com/subdir). If you're using a nonstandard port, you must include i
Authorized JavaScript origins For use with requests from a brow (https://* example.com) or a path in the origin URI. https://www.example.com	ser. This is the origin URI of the client application. It can't contain a wildcard (https://example.com/subdir). If you're using a nonstandard port, you must include i
Authorized JavaScript origins For use with requests from a brow (https://*example.com) or a path in the origin URI. https://www.example.com Type in the domain and press Enter	ser. This is the origin URI of the client application. It can't contain a wildcard (https://example.com/subdr). If you're using a nonstandard port, you must include it rr to add it
Authorized JavaScript origins For use with requests from a brow (https://*example.com) or a path in the origin URI. https://www.example.com Type in the domain and press Enter	ser. This is the origin URI of the client application. It can't contain a wildcard (https://example.com/subdr). If you're using a nonstandard port, you must include i er to add it.
Authorized JavaScript origins For use with requests from a brow (https://www.example.com) or a path in the origin URI. https://www.example.com Type in the domain and press Enter Authorized redirect URIs For use with requests from a web	ser. This is the origin URI of the client application. It can't contain a wildcard (https://example.com/subdir). If you're using a nonstandard port, you must include i er to add it.
Authorized JavaScript origins For use with requests from a brow (http://www.example.com) or a path in the origin URI. https://www.example.com Type in the domain and press Enter Authorized redirect URIs For use with requests from a web authenticated with Goode. The pa	ser. This is the origin UBI of the client application. It can't contain a wildcard (https://example.com/subdr/). If you're using a nonstandard port, you must include i re to add it. server. This is the path in your application that users are redirected to after they have the will be appended with the authorization code for access. Must have a protocol.
Authorized JavaScript origins For use mith requests from a brow (https://www.example.com) or a path in the origin URI. https://www.example.com Type in the domain and press Ente Authorized redirect URIs For use mith requests from a web authenticated with Google. The pa Cannot contain URI. fragments or	ser. This is the origin URI of the client application. It can't contain a wildcard (https://example.com/subdr). If you're using a nonstandard port, you must include i er to add it. server. This is the path in your application that users are redirected to after they have the will be appended with the authorization code for access. Must have a protocol.
Authorized JavaScrigt origins For use with requests from a bown (https://www.example.com) or a path in the origin URL https://www.example.com Type in the domain and press Entr Authorized refered URL For use with requests from a web authenticated with Google. The pr Cannot contain URL fragments or https://www.example.com	ser. This is the origin URI of the client application. It car't contain a wildcard https://example.com/subd/t). If you're using a nonstandard port, you must include i er to add it. server. This is the path in your application that users are redirected to after they have this libe appended with the authorization code for access. Must have a protocol. relative paths. Cannot be a public IP address.
Authorized JavaScript origina For use with requests from a brow (https://www.example.com) Type in the domain and press Enite Authorized redirect URIs For use with requests from a web authenticated with Google. The pu Cannot contain URL fragments or	ser. This is the origin UBI of the client application. It car't contain a wildcard (https://example.com/subdr/). If you're using a nonstandard port, you must include i er to add it. server. This is the path in your application that users are redirected to after they have this lib the papended with the authorization code for access. Must have a protocol. relative paths. Cannot be a public IP address.

11. Click the Create button to finish the step. The Client ID, Client Secret, and Redirect URI will be used within the configuration of the Google Cloud Storage ECP.

7.12.3 Set the IAM Permissions

12. Set the IAM permissions for Cloud Storage. From the main menu, navigate to IAM & Admin > Roles. Click Create Role.

≡	Google Cloud Platform	✿ RPIDev ➤ Q stor
θ	IAM & Admin	← Create Role
÷ <u>e</u>	IAM	Custom roles let you group permissions and assign them to principals in your project or
Θ	Identity & Organization	organization. You can manually select permissions or import permissions from another role. Learn more
عر	Policy Troubleshooter	Title * Custom Role
R	Policy Analyzer	11/100
	Organization Policies	Description Created on: 2021-10-28
크	Service Accounts	22/256
8.	Workload Identity Federat	(ID *
•	Labels	CustomRole604
	Tags	Role launch stage
¢	Settings	
Ø	Privacy & Security	+ ADD PERMISSIONS
	Identity-Aware Proxy	No assigned permissions
	Roles	
≡	Audit Logs	Permission 1 Status
	Asset Inventory NEW	No rows to display
	Essential Contacts	Some permissions might be associated with and checked by third parties.
21	Groups	These permissions contain the third party's service and domain name in the permission prefix.
D	Manage Resources	CREATE CANCEL
) III	Release Notes	

- 13. Set the Title and ID of the role.
- 14. Click the Add Permissions button.

- 15. In the Permissions dialog, filter for 'storage.buckets'. Check off of the following permissions:

 - storage.buckets.create
 storage.buckets.delete
 - storage.buckets.get
 - storage.buckets.list

Click the Add button

	ermissions by role				
Ξ Fi	storage.buckets 😒		×	0	
	Enter property name or value				
	Permission 1		Status		
	firebasestorage.buckets.addFireba	ଟେ	Supported		
	firebasestorage.buckets.get		Supported		
	firebasestorage.buckets.list	3 22 - 11 - 13	Supported		
	firebasestorage.buckets.removeFire	ebase	Supported		
	storage.buckets.create		Supported		
<u> </u>	storage.buckets.createTagBinding		Supported		
	storage.buckets.delete		Supported		
	storage.buckets.deleteTagBinding		Supported		
	storage.buckets.get		supported		
Add	permissions				
Add Filter	permissions permissions by role				•
Add Filter	permissions permissions by role		×	0	۰ ۳
Add Filter	permissions by role	Status	×	Ø	•
Add Filter	permissions by role storage.buckets ② Enter property name or value Permission ↑ storage.buckets.list	Status Supported	×	Ø	•
Add Filter	permissions by role storage.buckets ② Enter property name or value Permission ↑ storage.buckets.list sto	Status Supported Supported	×	0	•
Add Filter	permissions by role titer storage.buckets ⓒ Enter property name or value Permission ↑ storage.buckets.list storage.buckets.list storage.buckets.setiamPolicy	Status Supported Supported Supported	X	0	•
Filter	permissions by role etter storage.buckets ⓒ Enter property name or value Permission ↑ storage.buckets.list storage.buckets.list storage.buckets.settamPolicy storage.buckets.update	Status Supporter Supporter Supporter Supporter	X	0	•

- 16. Filter for 'storage.objects'. Check off the following permissions:
 - storage.objects.create
 - storage.objects.get
 - storage.objects.list
 - storage.objects.delete

Click the Add button

Filter p	ermissions by role			•
₹ F	ilter storage.objects 😒	e	× Ø	m
	Permission 1	Status		
	storage.objects.create	Supported		
	storage.objects.delete	Supported		
	storage.objects.get	Supported		
	storage.objects.getlamPolicy	Supported		
	storage.objects.list	Supported		
	storage.objects.setlamPolicy	Supported		
	storage.objects.update	Supported		
	Þ			

17. The role should now list the selected permissions from above. If incomplete, click the Add Permissions button again to reselect the missing permissions.

_	Google Cloud Platform	se RPIDev 👻	Q sto
9	IAM & Admin	← Create Role	
	IAM	Custom roles let you group permissions and assign them to principals	in your project o
θ	Identity & Organization	organization. You can manually select permissions or import permiss role. Learn more	ions from anothe
a,	Policy Troubleshooter	Title *	
ą,	Policy Analyzer	Custom Role	11 / 10
	Organization Policies	Description Created on: 2021-10-28	
머리	Service Accounts		22/26
•	Workload Identity Federat	< ID *	22/20
•	Labels	CustomRole604	
	Tags	Role launch stage Alpha	•
¢:	Settings		
9	Privacy & Security	+ ADD PERMISSIONS	
٠	Identity-Aware Proxy	3 assigned permissions	
	Roles	Filter Enter property name or value	0 11
=	Audit Logs	Permission 1 Status	
•	Asset Inventory NEW	storage.buckets.create Supported	
ž)	Essential Contacts	storage.buckets.delete Supported	
	Groups	storage.buckets.get Supported	
		Some permissions might be associated with and checked These permissions contain the third party's service and de	by third parties.
ø	Manage Resources	the permission prefix.	

18. From the menu on the left, click **IAM**. Assign the created role to the user that will be using Google Cloud Storage.

0	IAM & Admin	IAM	+2 ADD -2 REMOVE			
-2	IAM	PERMISSIONS	RECOMMENDATIONS HISTORY		Storage Agmin	-24//4 excess permissi
Θ	Identity & Organization		nathan.pari-an@redpointglobal.com	Nathan Pari-an	Bucket-Nathan	2/4 excess permissi 🖍
3,	Policy Troubleshooter				Custom API	9/19 excess permissi
E,	Policy Analyzer				Custom Client Auth	3/21 excess permissi
	Organization Policion				Firebase Admin	332/355 excess permissi
	organization Policies				Service Account User	3/5 excess permissi
	Service Accounts				Viewer	

7.13 SharePoint Online

This section describes how to configure an existing SharePoint Online instance for use with RPI. If you have a provisioned SharePoint Online and have access to it, please follow the steps below:

- 1. In a web browser, log into <u>https://www.office.com/</u> to acquire a server URL and site suffix.
- 2. Click SharePoint.

~	→ C ① 🏦 office.	com/?auth=2							\$	${igsidential}$	۹ 🛛
		Office :	365	,P si	earch					Q	۲
	Good afte	rnoon									Install Off
	+	o -		w	×	P	N	4	uji		*
	Start new \vee	Outlook	OneDrive	Word	Excel	PowerPoint	OneNote	SharePoint	Teams		Yammer
	Dynamics 365	Flow	→ All apps								

3. Click the SharePoint site you want to use.

\leftrightarrow \rightarrow C \triangle $\stackrel{\bullet}{}$ redpoints	global.sł	narepoint.com/_layouts/15/sharepoint.aspx		*
	Shai	ePoint		
O Search		+ Create site + Create news post		
Following ECP-Dev	*	Frequent sites	*	_
Recent		ECP-Dev Group	RPI - Dev Team	Red Point Global In Site
ECP-Dev RPI - Dev Team	*	You viewed index on 5/28/2019	You viewed RPI v5.2 Feature Summary on 7/15/2019	You viewed Screwfi Change Tracking o
Red Point Global Inc Team S	\$	SendGrid Text Offer is popular	Jim Hinder modified Patches on 8/21/2019	Dan Santos modifie RP Task List on 5/1
WGBH Platform	☆	index is popular	RPI v5.2 Release Note is popular	You viewed Dear Re 4/25/2019
RedPoint Global	☆			

4. You must take note of the URL. In this example, we are using 'https://Redpointglobal.sharepoint.com/sites/ECP-Dev' - use 'https://Redpointglobal.sharepoint.com' to configure the Server URL and 'sites/ECP-Dev' as the Site suffix when configuring the ECP in RPI's Configuration Workbench.

\leftrightarrow \rightarrow C \triangle in red	lpointglobal.sharepoint.com/sites/ECP-Dev		
	SharePoint		
ED ECP-D Private grou	ev		
✓ Search this site	$+$ New \vee $~$ \textcircled{O} Page details		
Home Conversations Documents Notebook	All files on this site could potentially be Documents	e shared externa	lly. See all
Pages	$+$ New \vee $\ \bar{\uparrow}$ Upload \vee $\ \bar{G}$ Sync $\ \bar{gamma}$ Export to Ex	kcel 🚍	All Documents $ \smallsetminus $
Site contents	\square Name \checkmark	Modified \vee	Modified By \smallsetminus
Recycle bin	aaaaaaaabbbbbbbbbbbbbbcccccccccdddddd	June 17	Maree Laserna
Edit	Folder from RPI	June 9	Jerarl Bautista
	Folder from RPI1	June 9	Jerarl Bautista

7.14 Cloudinary

This section describes how to create and configure a new Cloudinary account. Please follow the steps below:

- 1. In a web browser, navigate to <u>https://cloudinary.com/</u>.
- 2. Click Signup for free.

🛛 🖨 https://doudinary.com						· · · · · · · · · · · · · · · · · · ·	110%	© ☆		عر	lii\ C	1 8
Join us for ImageCon 2020 in !	San Francisco, Ap	oril 22-23.	Learn I	More								×
		About	Blog	Contact	Partners	Resources	Careers	Support	Login	Q f	y	in
SOLUTIONS	PRICING	CUS	TOMERS	t	DOCUMENTA	TION	ADD-ONS		SIGN UI	P FOR I	FREE	

3. Provide all mandatory details and click Create Account.

SIGN UP TO CLOUDIN	ARY
Your name:	Cloudinary is the media management platform for web ar mobile developers. An end-to-end solution for all your image and video needs.
Password: (At least 8 characters, must contain at least one lower-case letter, one upper- case letter, one digit and a special character)	唐: File Upload & Storage
Country:	Image and Video Manipulati
Phone: (Optional)	Optimization & Fast Delivery
Company or site name: (Optional)	
Primary interest:	
 Assigned cloud name: djdyuezdr Edit By cloking Create Account you spree to Cloudinary's Isma of Service and Privacy Policy 	
CREATE ACCOUNT	

4. Go to your inbox and locate the Cloudinary email to validate your Cloudinary account. Click Sign in to Validate your Email Address and you will be redirected to the Cloudinary portal.



5. Click Next to complete the registration process.

	() Welcome	Console tour	<>> Integration	ی Settings	What's next?	$\overline{\mathbf{x}}$
Welcome to Cloudin	arv					
To get you up and running, this tour will you to the Management Console UI. Ple	help with initial setup ase answer the few q	ı, give you a quick overv uestions below so we c	iew of Cloudinary's m an customize your Cl	ain functionality, and in oudinary experience.	troduce	
What is your main role?						
Developer DevO	ps 🕅	Media Manager	Tech Executive	Other		
What's your primary develop	ment framewo	ork? How di	d you hear abo	ut us?		
Select V		Select		~		
Which industry best describ	es your site or	application?				
Vecommerce	& Media	Social	🔉 AdTech	Travel	Other	
Continue later						Next →

 In your Cloudinary dashboard, secure the values of the following parameters: Cloud name, API Key, and API Secret (used when provisioning new a Cloudinary connector in RedPoint Interaction).

Dashboard				
Account Details				
Cloud name:	djdyuezdr			
API Key:	511633	Copy to clipboard		
API Secret:	*****	Copy to clipboard Reveal		
Environment variable	e: CLOUDINARY_URL=cloudinary://*	@djdyuezdr	<u>Copy to clipboard</u>	

7. If you wish to upgrade your free account, click Upgrade plan, and follow further steps as provided.



7.15 Contentful

This section shows how to configure a Contentful space to support an RPI external content provider.

1. Create or log in to a Contentful account.



2. After signing in, select Add a space.



3. Choose the space type.

	1. Space type	2. Space details	3. Confirmation	
	Che	oose the space	type	
You	are creating this	space for the organizati	on RedPoint Global, Inc	
Add payment of	letails for the orga	nization before creating	g a paid space.	
Community 0 4 <u>Environments</u>	I/1 free space (2 <u>Roles</u> 2 Loc	ales 48 Content type	s 25,000 <u>Records</u>	>
Community 0 4 <u>Environments</u> Medium \$489	1/1 free space (2 <u>Roles</u> 2 Loc 2/month	ales 48 Content type	s 25,000 <u>Records</u>	>
Community 0 4 <u>Environments</u> Medium \$485 4 <u>Environments</u>	/1 free space (2 <u>Roles</u> 2 Loc //month 2 <u>Roles</u> 7 Loc	ales 48 Content type ales 48 Content type	s 25,000 <u>Records</u>	>
Community 0 4 Environments Medium \$489 4 Environments Large \$879/m	/1 free space (2 <u>Roles</u> 2 Loc //month 2 <u>Roles</u> 7 Loc	ales 48 Content type	s 25,000 <u>Records</u> s 25,000 <u>Records</u>	>

4. Provide the space details. Enter the name and type (empty or example) of the space.

1. Space type	2. Space details	3. Confirmation	×
	Choose a nan	ne	
You are about to	o create a community s	space for \$0/month .	
Space name (required)			1
Create an empty I'll fill it with my	/ space. own content.		,
Create an examplified of the second secon	ple space. w things work first.		
	Proceed to confirmat	ion	

5. Confirm the creation of the new space.

	1. Space type	2. Space details	3. Confirmation	×
	Co	nfirm your sel	ection	
	Make sure every	rthing is in order before	e creating your space.	
You are about to create organization's subscript	a free space for the tion. The space's nam	organization <i>RedPoint</i> (e will be <i>Interaction</i> .	<i>Global, Inc</i> . and it won't chang	e your
If everything looks okay	, click Confirm and	create space to create	your space	
		Confirm and create sp	pace	

6. At the top menu, click Settings > Space Settings > General Settings.

🎧 Space home 🗒 🛛	Content model 🛛 Content 🛃 Med	lia ဪ Apps ▼	🔅 Settings 🔻	
	\\/alcomo	to vour l	ENVIRONMENT SI	ETTINGS 💿
	Use this space to cre	ate and publish conte	Extensions	
		explore ways to ge	SPACE SETTINGS General settings	0
	Learn what's possible with Contentful		Users Roles & permissions	s
			Environments API keys	
			webnooks Content preview Usage	

7. Copy the ID of the new space. This will be used in the Space ID field in the Contentful external content provider (ECP) configuration in Redpoint Interaction.

General	
Space ID:	
smchcqapvyhu	
Space name:	
Interaction	Rename space

8. At the top menu, click Settings > Space Settings > API keys.



9. Click the "Add API Key" button.



10. Provide the Name and Description of your API key. Take note of the "Content Delivery API – access token." This will be used in the Access token field in the Contentful's ECP configuration in Redpoint Interaction.

Access tokens		
To query and get content usir token.	g the APIs, client applications need to authenticate with both	n the Space ID and an access
Name (required)		
Interaction API Key		
Can be platform or device sp	cific names (i.e. marketing website, tablet, VR app)	
Description		
API Key for RedPoint Interac	tion	
You can provide an optional o	escription for reference in the future	
Space ID		
smchcqapvyhu		
Content Delivery API - acces	; token	
WdkpbYeOAw	VzHZQOgcuZYw	
Content Preview API - access	token	
	A24n4pcHtlE	
60kRgLOEaMF		

8 **RSS Configuration**

This section provides guidance on undertaking the following:

- Creating an application in FeedPress. Note: this requires an existing FeedPress account
- Validating a FeedPress feed alias
- Updating feed settings after a new RSS feed has been published
- How to logout from FeedPress

8.1.1 Create application in FeedPress

- 1. In a web browser, browse to <u>https://feed.press/</u> to log into your FeedPress account.
- 2. Navigate to <u>https://feed.press/api/</u> and then click New app under the Your apps tab.

🚏 FeedPress						
			Tria	I account –	- 13 days left — <u>Upgrade r</u>	iow
API	Documentation	Methods	Your apps			
			New app			20023
Fee	edPress Al	Ы				

3. The New application form is displayed. Enter the desired name and description for the app then click Create my app.

Fill the form below to create a new Fee	edPress app ar
Application name:	
rss_rpi_app1	
Short description:	
RSS RPI App	

4. The details of the newly-created app are displayed.

rss_rpi_app1				
 Description: RSS RPI App API key ! Your token: Generate a token for your user 				
App details				
Application name:				
rss_rpi_app1				
Short description:				
RSS RPI App				
Edit the app				
Delete the app				
Warning: App deletion is irreversible, please check that				
Delete the app				

5. Take note of the account name and the API key as you will need this to configure the RSS channel plugin.

8.1.2 Validate FeedPress feed alias

Before creating an RSS offer, you need to make sure that the feed alias you use is owned by you. To check, follow these steps:

- 1. In a web browser, browse to https://feed.press/ to log into your FeedPress account.
- 2. Select My feeds.



- 3. A list of your feeds will be displayed (the list will be empty for a newly-created account).
- 4. Under Feeds management, click Add A Feed to open the form to create a new feed.

Feeds management	
	Add A Feed
	Do you have a FeedBurner feed?
	Migrate From FeedBurner
	See our FeedBurner migration tutorial \rightarrow

5. In the Choose an alias setting, enter the desired alias and FeedPress will validate if this is already taken.

Your current feed UR	RL:		
		Type a URL	
Choose an alias:			
http://feedpress.me/	feed		This alias is already taken

8.1.3 Update feed settings after a new RSS feed has been published

When a new feed is published by RPI, it is imperative to update the feed settings in FeedPress to facilitate push notification to and track the feed's readers.

- 1. In a web browser, browse to <u>https://feed.press/</u> to log into your FeedPress account.
- 2. Navigate to https://feed.press/feeds/.
- 3. Click Admin in respect of the desired feed.
- 4. Click Settings.
- 5. Under Feed customization:
 - a. Check Activate Push notifications (PubSubHubbub).
 - b. Uncheck Display your actual feed URL and not FeedPress.
 - c. Check Enable click tracking and entry opening.
- 6. Click Update settings.

8.1.4 Logging Out from FeedPress

- In your web browser settings, find the cookie called *feed.press*.
 Click clear to delete the content of this cookie.

🔍 🛛 Elements Network Sour	rces Timeline Profiles	Resources Audits Con
Frames	Name 🔺	Value
Web SOL	PHPSESSID	592bed3802135680a883
	optimizelyBuckets	%7B%7D
N III I C	optimizelyEndUserId	oeu1428295785457r0.42
Elecal Storage	optimizelySegments	%7B%222345240733%22
Session Storage	token	586e0b3f414eec2aafb970
🔻 🛃 Cookies		
🔯 feed.press		
Application Cache		

9 Web Adapter Provider Configuration

9.1 Kissmetrics Configuration

This section outlines how to setup Kissmetrics for use with its RPI web adapter.

9.1.1 Creating a New Website

- 1. Log in to Kissmetrics.
- 2. Navigate to https://app.kissmetrics.com/get-started.
- 3. Click "INSTALL SETUP CODE YOURSELF".



4. Javascript code will be displayed; you need to include this code on every page of your website that requires to be tracked by Kissmetrics.

1</th <th>(ISSmetrics tracking snippet></th>	(ISSmetrics tracking snippet>
<scrij< td=""><td><pre>pt type="text/javascript">var _kmq = _kmq [];</pre></td></scrij<>	<pre>pt type="text/javascript">var _kmq = _kmq [];</pre>
var _	cmk = _kmk '32d96f348104a5c6a499459741fd004e4b2c0e00';
funct	ion _kms(u) {
set	fimeout (function() {
v	ar d = document, f = d.getElementsByTagName('script')[0],
3	<pre>= d.createElement('script');</pre>
S	.type = 'text/javascript'; s.async = true; s.src = u;
f	<pre>parentNode.insertBefore(s, f);</pre>
},	L);
}	
_kms (<pre>//i.kissmetrics.com/i.js');</pre>
_kms (<pre>//scripts.kissmetrics.com/' + _kmk + '.2.js');</pre>
<td>ipt></td>	ipt>

- 5. On the lower part of the page. Click "Open all of Kissmetrics for me".
- 6. All other Kissmetrics functionality is made available. On the upper left-hand side of the Kissmetrics interface, select your new site (in the example below, "My First Product"):



- 7. To rename the site, go to "Settings" > "Edit site" then enter the site name.
- 8. Click save changes.

9.1.2 Getting the Base URI

- 1. Go to the Kissmetrics Core API documentation (<u>http://support.kissmetrics.com/apis/core-api.html</u>).
- 2. Scroll down to Root Directory (http://support.kissmetrics.com/apis/core-api.html#root-directory).
- 3. Copy the URL as highlighted below(https://api.kissmetrics.com).



9.1.3 Getting the Tracking API Key and Global Identifier

- 1. Log in to Kissmetrics
- 2. Make sure to select your production website (in this example, "My First Product"). Your account can support multiple websites, each of which has different tracking key, so be sure to select the correct one.
- 3. Go to "Settings" or navigate to https://app.kissmetrics.com/settings.



4. Copy the tracking API key and Global identifier

Tracking API Key
The tracking API Key is used to implement Kissmetrics tracking for recording people, events, and properties for your business. Refer to our API Specifications or JavaScript Library for instructions on implementation and tracking.
Global Identifer
54b97b20-

9.1.4 Getting the API Token

- 1. Log in to Kissmetrics
- 2. Click "Account Settings" (to the upper right):



3. Scroll down in API Tokens.



- 4. Click "Manage API tokens"
- 5. When the API token page is displayed, click "Generate a new token".



6. Copy the generated token, as you will need this value to configure the RPI Kissmetrics API token property.

Current API Tokens:	
mAdB_WSv5Pa6R0itL-8fr8urdI5nVuJKc_rQXInJUEn0R0IGa-57A4Af4gWykY5a	
Create a token to interact with the Kissmetrics API	Generate a new token

9.1.5 Getting the Account Name

- 1. Log in to Kissmetrics.
- 2. Click "Account Settings", to the upper right:



3. Click Edit account details

Account Details	
Edit your name, e-mail address or change your password.	Edit account details

4. Copy the account name

9.1.6 Recording Events and Properties

Before setting up a new Kissmetrics adapter, you must first record the event and properties to be used by Redpoint Interaction, thereby ensuring that the tracking code is successfully installed.

- 1. Get any URL where Kissmetrics tracking is installed. Ex. http://119.92.171.46/service.html.
- 2. Append the event Email to the URL: "kme=Email"
- 3. Append the property exid to the URL: "km_exid=0"
- 4. Append the property campaign to the URL: "km_campaign=test_campaign"
- 5. Your URL should resemble the following:

http://119.92.171.46/service.html?kme=Email &km_exid=0&km_campaign=test_campaign

- 6. Browse to the URL. Note that Kissmetrics may take some time to record the event.
- 7. Refresh the Kissmetrics events/properties breakdown to check if the event Email and properties (exid and campaign) have been successfully recorded.

9.1.7 Creating Unique Visit Metrics

In this example, we will create a metric that will count the unique visits.

- 1. Login to your Kissmetrics account.
- 2. Select your website.
- 3. Click Metrics > Add new metric
- 4. Select "Number of People Who Did Event"
- 5. Click "Continue with this metrics"
- 6. Set a unique metric name
- 7. Set the event to "Email"
- 8. Click "Display option", make sure that Unit type is set to "Numeric"
- 9. Click "Save metric"

Take note of the metric name and use this to configure the RPI Kissmetrics adapter metrics.

9.1.8 Creating Visit Metrics

In this example, we will create a metric that will the count the total number of visits.

- 1. Login to your Kissmetrics account.
- 2. Select your website.
- 3. Click Metrics > Add new metric
- 4. Select "Number of Times Event Happened"

- 5. Click "Continue with this metrics"
- 6. Set a unique metric name
- 7. Set the event to "Email"
- 8. Click "Display option", make sure that Unit type is set to "Numeric"
- 9. Click "Save metric"
- 10. Take note of the metric name and use this to configure Kissmetrics adapter metrics
- 11. Additional note: when creating other metrics, it is important to set the Unit Type to Numeric

 Display options: 	
Unit Type:	
Use these options to a to your properties. If yo make sure you go bac	djust the units to display, useful for adding units ou want to see a conversion or time-based metric, k and select that metric type.
Numeric 🔻	
Round to Value:	
99 🔻	
Prefix: (optional)	Postfix: (optional)

9.2 Bitly Configuration

This section describes how to configure a Bitly web adapter for use with RPI. Please follow the steps below:

- 1. In a web browser, log into https://bitly.com/a/sign_in?rd=/bbt2/ to acquire oAuth credentials such as client ID, client secret and redirect URIS.
- 2. Click the Settings icon located at the upper right corner of your home page.



3. Click the account name as in the example below.



4. Click Registered OAuth Applications.



5. Click Register New App.



6. Click Get Registration Code.

Bitly currently supports the OAuth 2 draft specification. For more information visit the API Documentation.	•
GET REGISTRATION CODE	
Creating an OAuth application with Bitty is easy! Just click the button below and we will send a registration code and link to generdelavega@gmail.com, the email address associated with your Bitty account.	
	+
GET REGISTRATION CODE	
	•

7. Bitly will send an email notification to complete the registration. In your mail inbox, click the *Complete Registration* button.



8. On *Register OAuth App*, provide values for the following entries: *Application Name, Application Link, Redirect URIS,* and *Application Description.* Click *Register App* to create a new OAuth application.

< REGISTER OAUTH APP ×
OAuth visit the API Documentation
REGISTRATION CODE
APPLICATION NAME Required
Please provide a unique name for your application. This value will be displayed to users when they authenticate to Bitty.
APPLICATION LINK Required
The URL of your application. This value will be displayed to users when they authenticate to Bitly. If your application link is a root domain or a directory (ie, a link that does not end in .html or .php), it must end with a forward slash. Example: http://your-application.com/
REDIRECT URIS Required
For multiple, enter one per line. Example: https://your-application.com/callback/ http://devyour- application.com/redirect.php
APPLICATION DESCRIPTION Required
REGISTER APP

9. Once OAuth app is registered successfully, copy Redirect URIS, Client ID, and Client Secret. The values of these parameters will be used in RPI when configuring a Bitly web adapter.

< REGISTERED OAUTH APP ×
RPIGABITLY
https://www.redpointglobal.com. RPITestApp
CLIENT ID
CLIENT SECRET
Gaussional Land 11510, 2579 (52, 14, 2, 11, 15)

10. A sample configuration of Bitly Web Adapter within RPI:

Selected Adapter Details		
Name:	New Bitly adapter	
Description:		
Connectivity test:	Create new job to test this adapter	
Website URL:		If set, shortens specified URL only - else all URLs in content
Client ID:	8	Client ID to use when making OAuth 2.0 access token requests
Client secret:	•••••	Client secret to use when making OAuth 2.0 access token requests
Redirect URI:	https://www.redpointglobal.com	Redirect URI to use when making OAuth 2.0 access token requests
Authorization:	O The connection to Bitly has been authorized	
	Click here to reset the authorization token	
Append execution ID:		If checked, a campaign execution ID parameter is appended to the URL to enable clicks to be tracked to the source activity
Reuse provisioned short URLs:		If checked, already provisioned short URLs for long URLs will be reused instead of creating new ones

9.3 Rebrandly Configuration

9.3.1 Requesting an oAuth Client ID and Client Secret keys

This section describes how to submit a request for Rebrandly's oAuth Client ID and Client Secret keys. Please follow the steps below:

- 1. In a web browser, navigate to <u>http://rebrand.ly/AuthorizeMe</u>.
- 2. Provide the information as requested. You use Redpoint Interaction as App Name. Click Submit.

Re	ebrandly API 🤓
Reg	sent 0Auth authorization (https://developers.rebrandly.com)
Re	oured
You	r Rebrandly account "
Ena	I you use to login with Rebrandly
You	answer
wh	at kind of access do you need? *
0	I just want to "play" with Rebrandly API, I want to run some custom scripts in my account (e.g. Importing links):
0	I have my own application engine and I want to short/brand URLs via API with domains I have in my Rebrandly account.
۲	I want the users of my app to be able to connect their accounts with Rebrandly, in such a way they can use their custom domains within my service/app.
0	I want to develop an App on top of Rebrandly APt.
0	Other:
You	r App name
The	name of your application, if you have one
235	

2. Wait for response from Rebrandly's tech support. If asked for more info, tell them that you need a Client ID and Client Secret keys for oAuth authentication; once received, use them at the Client ID and Client Secret fields within the Rebrandly Web Adapter configuration interface in RPI.

9.3.2 Additional Config Settings

1. For Redirect URI you may use any URL.

9.3.3 Linking your Rebrandly Domain

1. In a web browser, navigate to https://www.rebrandly.com; Signup or Login to your account.



2. After signing in, register or link a Domain using the **New Domain** button.

app.rebrandly.com/domains				\$
	Rebrandly, Links Workspaces Domains Apps			i 🤌 🔮
	1 Domain			New domain
	Domain	Туро	Added	Renow date

3. Follow the instructions provided on the page to register or link your domain.

Rebrandly. Lines workspaces Domnins Apps	0
ANNY.	
Register a new custom domain	
 Enter your brand or company name or connect a domain you sheady own 	

Once the domain has been created, you can use it in Domain field in the Rebrandly Web Adapter configuration interface in RPI.

10 Queue Provider Configuration

10.1 Apache ActiveMQ

1. Download Apache ActiveMQ's latest binary distribution from Apache's website:

http://activemq.apache.org/download.html

2. Unzip the download file into your choice of directory.

```
ctivemq-5.13.0-bin > apache-activemq-5.13.0
  Name
                                               Date modified
      bin
                                               11/30/2015 2:14 P...
      conf
                                               11/30/2015 2:14 P...
        data
                                               12/8/2015 5:29 PM
      docs
                                               11/30/2015 2:14 P...
      examples
                                               11/30/2015 2:14 P...
      📕 lib
                                               11/30/2015 2:14 P...
      webapps
                                               11/30/2015 2:14 P...
      webapps-demo
                                               11/30/2015 2:14 P...
      ∫activemq-all-5.13.0 🔮
                                               11/30/2015 2:06 P...
      LICENSE
                                               11/30/2015 2:14 P...
      NOTICE
                                               11/30/2015 2:14 P...
      README
                                               11/30/2015 2:14 P...
```

3. Open a Command Prompt and change directory to the bin directory of the unzipped ActiveMQ archive.



4. Type the following at the command prompt:

activemq start

Press Enter. ActiveMQ will then be running.

INFO Apache ActiveMQ 5.13.0 (localhost, ID:NathanP-51180-1453191406310-0:1) starting INFO | Listening for connections at: tcp://NathanP:61616?maximumConnections=100 &wireFormat.maxFrameSize=104857600 INFO | Connector openwire started INFO | Listening for connections at: amqp://NathanP:5672?maximumConnections=100 &wireFormat.maxFrameSize=104857600 INFO | Connector among started INFO | Listening for connections at: stomp://NathanP:61613?maximumConnections=1 00&wireFormat.maxFrameSize=104857600 Connector stomp started INFO INFO Listening for connections at: mqtt://NathanP:1883?maximumConnections=100 % a state of the state of INFO | Connector mgtt started INFO | Listening for connections at ws://NathanP:61614?maximumConnections=1000& ireFormat.maxFrameSize=104857600 INFO | Connector ws started INFO | Apache ActiveMQ 5.13.0 (localhost, ID:NathanP-51180-1453191406310-0:1) s arted INFO For help or more information please see: http://activemq.apache.org No Spring WebApplicationInitializer types detected on classpath INFO INFO ActiveMQ WebConsole available at http://0.0.0.0:8161/ ActiveMQ Jolokia REST API available at http://0.0.0.0:8161/api/jolokia/ INFO Initializing Spring FrameworkServlet 'dispatcher' INFO No Spring WebApplicationInitializer types detected on classpath INFO jolokia-agent: No access restrictor found at classpath:/jolokia-access.x INFO nl, access to all MBeans is allowed

- 5. Take note of the following information from the command prompt window:
 - The TCP connection (tcp://NathanP:61616 in the image above). This will be used as the connection string for the Apache ActiveMQ queue provider in RPI.

SELECTED QUEUE PROVIDER D	DETAILS	
Name:	New Apache ActiveMQ Provider	
Description:		
Туре:	Apache Active MQ	
Use this queue provider:	\checkmark	Whether this provider is used for web processing
Connectivity test:	Test connectivity	
Configuration:	Copy XML configuration to clipboard	
Connection string:	tcp://localhost:61616	Connection string used to connect to Apache ActiveMQ

- The port number in the web console address (http://0.0.0.0:8161) 8161.
- To access the ActiveMQ web console, open a browser and navigate to http://127.0.0.1:8161 (the port indicated above).
- 7. Use the following default credentials to log in:

- Username: admin
- Password: admin

The following page will be displayed:



10.1.1 Install/Uninstall ActiveMQ as a Windows-NT Service

- 1. Navigate to the archive's bin directory.
- 2. Navigate to the folder matching your system's configuration.



- 3. Double-click the InstallService Windows batch file inside the folder.
- 4. ActiveMQ will now appear in your list of local Services.

Name	Description	Status	Startup Type
ActiveMQ	ActiveMQ B	Running	Automatic

5. To uninstall the service, go to the same folder and double-click the 'UninstallService' Windows batch file instead.

10.1.2 Using ActiveMQ as the Default Queue Provider

To use ActiveMQ as RPI's default queue provider, the Apache.NMS.ActiveMQ and Apache.NMS assemblies must be copied to the Services Common directory.

- 1. Copy the assemblies from the 'InteractionRealtimeAPI\bin' directory of the Deployment Files archive.
- 2. Paste the assemblies into the 'Redpoint Global\Redpoint Interaction\Services Common' directory under Program Files.

10.2 Azure Service Bus

This section describes how to configure Azure Service Bus for use with RPI. Please follow the steps below:

- 1. Set up your service bus namespace in Azure and obtain the connection string.
 - a. Log onto the Windows Azure portal (https://manage.windowsazure.com).
 - b. Once you have successfully logged into the portal, go to the Service Bus tab and click CREATE as shown below:



c. Provide a NAMESPACE NAME, leave the default TYPE of MESSAGING, and choose your REGION and SUBSCRIPTION:

CREATE A NAMESPACE				
Add a new namespace				
NAMESPACE NAME				
0				
.servicebus.windows.net				
түре 👩				
MESSAGING NOTIFICATION HUB				
MESSAGING TIER				
BASIC STANDARD PREMIUM				
REGION				
Central US 🔹				
SUBSCRIPTION				

d. Once the namespace is created it will appear in the list of service bus namespaces. Select the record and then click on the CONNECTION INFORMATION icon from the taskbar at the bottom of the page:


e. From the Access connection information dialog that pops up, copy and record the entire CONNECTION STRING property value. This will be used when configuring the queue provider in RPI:

Access connection informa	tion	
Use this connection information to manage namespace 'rpr to connect to all entities in this namespace.	nktg'. You can also use authorization policie	es configured here
SAS 🕖		
NAME	CONNECTION STRING	Q
RootManageSharedAccessKey	Endpoint=sb://r	/;SharedAccessKe

- 2. Setup RPI queue configuration elements to use your newly created Azure message bus as the queue provider.
 - a. Log in to the RPI Client as an Admin user and navigate to Configuration -> Queue Providers
 - b. Select the icon with the plus sign to create a new queue provider then select the option 'Add new Azure Service Bus provider'

0	1 the man 10
2 🛎	Add new Amazon Simple Queue Service provider
CO 💊	Add new Azure Service Bus provider
	Add new Microsoft Message Queueing provider

c. Give your queue entry a name, select the option to 'Use this queue provider' and then paste in the Connection String harvested in the section above.

Name:	azurequeue	
Description:		
Туре:	Azure Service Bus	
Use this queue provider:	\checkmark	Whether
Connectivity test:	Output the set of t	
Configuration:	🕕 Save this provider to retrieve XML configuration	
Connection string:	Endpoint=sb://r	A Connectio

- d. Save the record and once saved, click on the 'Connectivity test:' button to verify connectivity to the service bus.
- e. Once successful connectivity has been verified, click on the 'Copy XML configuration to clipboard' button and record the XML configuration details. This will be used in the web.config file for the RPI Realtime API site:

Configuration:	Copy XML configuration to clipboard
----------------	-------------------------------------

- f. Navigate to Configuration -> System Configuration and set the value for following 3 queue related parameters. Please note that the queues need not already exist within the Azure service bus namespace as RPI will create the queues automatically if they do not exist:
 - FormSubmissionQueuePath
 - WebCacheQueuePath
 - WebEventQueuePath
- g. Make a note of the names entered for the 3 queues as they will be entered in on the web.config file within the RPI Realtime API site in the next section.
- 3. Configure your Realtime API web.config file to reference the new queue provider and queues created in the sections above.
 - a. Open up the web.config file at the root of the Realtime API web site directory in a text editor.
 - b. Locate the webQueue XML tags within the web.config file:

04	
85	🗧 <webqueue></webqueue>
86	
87	

- c. Within these two tags, paste in the contents of the queue XML configuration details harvested in section 2e above.
- d. Locate the following three settings within the <applicationSettings> section of the web.config file and set respectively to match exactly the three system configuration values defined above in section 2f:
 - i. In this section, enter in the same value from RPI system configuration parameter FormSubmissionQueuePath:

<setting name="ProcessQueuePath" serializeAs="String"> <value> value from FormSubmissionQueuePath</value> </setting>

ii. In this section, enter in the same value from RPI system configuration parameter WebCacheQueuePath:

<setting name="WebCacheQueuePath" serializeAs="String"> <value> value from WebCacheQueuePath </value> </setting>

iii. In this section, enter in the same value from RPI system configuration parameter WebEventQueuePath:

<setting name="TrackingEventsQueuePath" serializeAs="String"> <value>value>value from WebEventQueuePath</value> </setting> This completes the steps necessary to configure RPI to use Azure Service Bus message queues. You can validate that the queues have been created successfully from the Windows Azure portal. They will be listed under QUEUES within the namespace created in the first section above:

ALL QUEUES	TOPICS RELAYS EVEN	IT HUBS SCALE CON	FIGURE	
NAME	STATUS	CURRENT SIZE	MAX SIZE	QUEUE LENGT
→	✓ Active	0 B	1 GB	0
	✓ Active	0 В	1 GB	0
	✓ Active	0 В	1 GB	0
	 Active 	0 В	1 GB	0

10.3 Azure Event Hubs

10.3.1 Provisioning the Storage Container Name and Connection String

This section describes how to create and configure an Azure Event Hubs on the Windows Azure portal. Please follow the steps below:

- 1. In a web browser, log into the Windows Azure portal (<u>https://portal.azure.com</u>).
- 2. Once you have successfully logged into the portal, search for the "Storage accounts" resource and click Storage accounts.

Microsoft Azure Storage accounts > maniladev				
Ξ		X Shift+Space to toggle favorites	iladev e account	
+ New	storage account		ch (Ctrl+/)	
Dashboard	-		A	
	Storage accounts	*	View	
(Resource groups	Storage accounts (classic)	*	/ity log	
All resources			ess control (IAM)	

3. In the list of storage accounts, select and click the appropriate storage account to use (in this example, "maniladev").

Microsoft Azure Storage ac	ccounts
	Storage accounts Red Point Global Inc
+ New	+ Add ≡≡ Columns ひ Refresh
🛅 Dashboard	
📦 Resource groups	Storage accounts and Storage accounts (classic) can now be managed together in the com
All resources	Subscriptions: All 2 selected
lecent	Filter by name All subscriptions
🔇 App Services	1 items
🕺 Virtual machines (classic)	NAME ↑↓
Virtual machines	maniladev

4. Under Settings, click Access keys.

Storage accounts 🛛 🖈 🕻	maniladev - Access keys Storage account	
Add EE Columns Columns	Search (Ctrl+/)	Use access keys to authenticate your ap regularly. You are provided two access b
Storage accounts and Storage accounts (classic) can now be	Overview	When you regenerate your access keys,
managed together in the combined list below.	Activity log	Storage account name
Subscriptions: All 2 selected	Tags	Default keys NAME
1 items	X Diagnose and solve problems	key1
NAME 14	SETTINGS	key2
🗾 maniladev 🚥	Access keys	
	Configuration	

- 5. Use the storage account name to configure the storage container name of the RPI Azure Event Hubs queue provider.
- 6. Under Default keys, use the key1 connection string to configure the storage connection string of the RPI Azure Event Hubs queue provider.

🔶 maniladev - Access keys Storage account					*	×
Search (Ctrl+/)	Use access keys	ys to authentic	ate your applications when making i	requests to this Azure storage account. Store	your	
Overview	access keys re regenerating	gularly. You are the other.	e provided two access keys so that y	ou can maintain connections using one key	while	
Activity log	When you reg	enerate your a	ccess keys, you must update any Az	ure resources and applications that access th	nis	
Access control (IAM)	storage accou more	nt to use the n	ew keys. This action will not interrup	ot access to disks from your virtual machines	Learn	
🛷 Tags	Storage accou	int name	maniladev		ſ	h
X Diagnose and solve problems						
SETTINGS	Default key	KEY		CONNECTION STRING		
Access keys		NUMBER				_
Configuration	key1	916	sg u	DefaultEndpointsProtocol=https;	C2	_
	key2	stqiosh				!

10.3.2 Provisioning the Event Hubs Name and Connection String

1. Once you have successfully logged into the portal, search for the "Event Hubs" resource and click Event Hubs.

Microsoft Azure Storage	accounts > maniladev - Access keys
≡	× Shift+Space to toggle favorites
+ New	event hubs
Dashboard	💽 Event Hubs
Resource groups All resources	🗈 Event hubs 🖸 ★

2. In the list of event hubs, select the appropriate event hub to used (in this example, "manila-eventhubs"). Take note of the name as you will use this to configure the Event hubs name of the RPI Azure Event Hubs queue provider.

Microsoft Azure Event Hu	ibs	✓ Search resources
	Event Hubs Red Point Global Inc	
+ New	+ Add ≡≣ Columns ひ Refresh	
🔲 Dashboard	Subscriptions: All 2 selected	
Resource groups	<i>Filter by name</i> All subscription	All resource of
All resources	1 items NAME 11	TYPE 🛧
lecent	📴 manila-eventhubs	Event Hub
🔇 App Services		

3. Click Shared access policies (located under Settings).



4. Click RootManageShareAccessKey (under Policy).

5. In the "SAS Policy: RootManageSharedAccessKey" panel, make sure Send and Listen are checked. Ask your Azure account admin to enable these options if they are not checked.

ccess policies	SAS Policy: RootManageSharedAccessKey	×
🕂 Add	🔜 Save 🗶 Discard 💼 Delete	••• More
Search to filter items POLICY CLAN	Manage	
RootManageSharedAccessKey Man	V Listen	
	Primary key XUbn/zl/izjsTzQl2DBkew0tgc3irnw,	
	Secondary key EpjHANxHy+lenbeZTOQSYBbR5TV	
	Connection string-primary key Endpoint=sb://manila-eventhubs.s	
	Connection string-secondary key Endpoint=sb://manila-eventhubs.s	

6. Use the Connection string-primary key to configure the Connection string of the RPI Azure Event Hubs queue provider.

10.4 RabbitMQ

This section describes how to create and configure RabbitMQ as a queue provider. Please follow the steps below:

- 1. In a web browser, navigate to <u>http://www.erlang.org/downloads</u>.
- 2. In the Erlang download portal, locate, and click the installer for Windows. In this case, download the 64bit installer.

	DOWNLOAD OTP 20.3
Erla	ng/OTP 20.3 is a service release containing mostly bug fixes, as well as a few features.
OTF	20.3 Readme File
OTF	20.3 Source File (96826317)
OTF	20.3 Windows 32-bit Binary File (96826317)
OTF	20.3 Windows 64-bit Binary File (99142192)
OTF	20.3 HTML Documentation File (33594990)
OTF	20.3 Man Pages File (1339710)
Erl The imp	ang/OTP 20.3 is the third service release for the 20 major release. service release contains mostly bug fixes and characteristics rovements but also some new features.

- 3. Once the installer is downloaded, run the .exe file with administrator privileges.
- 4. After the installation of Erlang, navigate to <u>http://www.rabbitmq.com/install-windows.html</u> in a web browser.

Installing on Windows			
Download the Server			
Description Download			
Installer for Windows systems (from Bintray) rabbitmq-server-3.7.4.exe (Signature)			
Installer for Windows systems (from <u>GitHub</u>) rabbitmq-server-3.7.4.exe (Signature)			

5. After installing RabbitMQ, navigate to <u>http://localhost:15672</u> in a web browser.

B RabbitMO.		
Username:		*
Password:		*
	Login	

6. Log in with the default credentials:

Username: guest Password: guest

7. The RabbitMQ portal will be displayed.

RabbitMO. 3.7.2 Erlang 20.1		Refreshed 2018-04-24 14:01:52 Refresh every 5 seconds Virtual host All Cluster rabbit@RPG-MPARIAN
Overview Connections Channels Exchanges	Queues Admin	User guest Log out
Overview • Totals		
Queued messages last minute 7		
2.5	Ready 2	
1.5	Unacked 0	
0.0 14:00:50 14:01:00 14:01:10 14:01:20 14:01:30 14:01:40	Total 2	
Message rates last minute ?		
1.0/s	Disk read 0.00/s	
	Disk write 0.00/s	
0.0/s 14:00:50 14:01:00 14:01:10 14:01:20 14:01:30 14:01:40		
Global counts ?		

10.5 Google Pub/Sub

10.5.1 Creating a Topic in Google Pub/Sub

This section describes how to create a new Topic in Google Pub/Sub. Please follow the steps below:

- 1. In a web browser, navigate to <u>https://console.cloud.google.com/</u>.
- 2. Click the menu next to the Google Cloud Platform header text.



3. Select a project by checking its name and pressing the Open button.

	NEW PROJECT	:
Q Search projects and folders		
RECENT ALL		
Name ID		
VI RPIDev 🕐		
redpointglobalinc.com		

4. In the left-hand panel, under the Big Data section, select Pub/Sub->Topics.

BIG D/	ATA			
	BigQuery			
*	Pub/Sub	Ŧ	>	Topics
\$	Dataproc		>	Subscriptions

5. In the Topic page, press Create Topic. Complete the Topic Name field and press Create to save.

Topics	E CREATE TOPIC	DELETE

Create a topic			
A topic forwards messages from	publishers to subscr	ibers.	
Name 📀		I.	
projects/rpidev-188321/topics/	RPIListenerQueue2		
		CANCEL	CREATE

10.5.2 Creating a Subscription in Google Pub/Sub

This section describes how to create a new Subscription for a specific Topic. Please follow the steps below:

- 1. Go to the Topics page as documented in the previous section above.
- 2. Select a Topic from the list by double-clicking it.

Topics + CREATE TOPIC	DELETE		
Filter by topic name		Subscriptions	Labels
projects/rpidev-188321/topics/MKTopic		0	None
projects/rpidev-188321/topics/RPIListener	Queue2	1	None
projects/rpidev-188321/topics/RPIWebCach	heData	1	None

3. In the Topic Details, press Create Subscription. Complete the Subscription Name field then press Create to save.

🛱 PUBLISH MESSAGE	🛓 IMPORT FROM 👻	🏦 EXPORT TO 🔫	CREATE SUBSCRIPTION	👕 DELETE

 Create a subscription 			
A subscription directs messages on a topic to subscribers. Messages can be pushed to subscribers immediately, or subscribers can pull messages as needed.			
Торіс			
projects/rpidev-188321/topics/RPIListene	rQueue2		
Subscription name 💿			
projects/rpidev-188321/subscriptions,	RPIListenerQueue2Sub		
Delivery Type ② ● Pull ● Push into an endpoint url ②			
℅ More options			
Create			

10.5.3 Setting up Windows Environment Variables

This section describes how to setup the Google service account key (in JSON format) as the Windows environment variable GOOGLE_APPLICATION_CREDENTIALS. Please follow the steps below:

1. At the target computer, right-click 'This PC' and select Properties.

1	Th De	iis PC isktop app	
Sett	ᅯ	Pin to Sta	art
Pho	ᅯ	Pin to tas	skbar
	G	Manage	
	물	Map net	work drive
	₽.	Disconne	ect network drive
		Propertie	'S

2. Go to the Advanced Tab and click Environment Variables.

System Propertie	5		_	-	×
Computer Name	Hardware	Advanced	System Protection	Remote	
You must be lo Performance Visual effects	gged on as a	an Administrate	or to make most of the	nese chang tual memory	es.

	Environment Variables
ОК	Cancel Apply

3. In System Variables, press the New button. Complete the fields below, then press OK to save.

New System Variable		×
Variable name:	GOOGLE_APPLICATION_CREDENTIALS	
Variable value:	C:\Shared\rpidev-188321-734a4ba18b21.json	
Browse Directory	Browse File	OK Cancel

4. Restart the machine for the new setting to take effect.

10.6 Kafka - AWS

This section describes how to set up a Kafka instance in AWS. Please follow the steps below:

- 3. In a web browser, navigate to https://console.aws.amazon.com.
- 4. Create or log into an AWS account.

C a signin.aws.amazon.com/signin?redirect_uri=https%3A%3	F%2Fconsole.aws.amazon.com%2Fconsole%2Fhome%3Fstate7	K3DhashArgs%2523%26isauthcoderk3Dtrue&client_id=arr%3Aavs%3Aiam%3Aik3A015428540655%3Auserk2Phomepage8
	Sign in	
	Root user Account owner that performs tasks requiring unrestricted access. Learn more	Amazon Aurora Serverless
	O IAM user User within an account that performs daily tasks. Learn more	Automatically starts, scales, and shuts down your database
	Root user email address username@example.com	Q+,Q
	Noxt By continuing, you agree to the AWS Customer Agreement or other agreement for AWS services, and the Privacy Notice. This site use scientfall cookies. See our Cookien Notice for more information.	aws +
	New to AWS?	
	© 2021, Amazon Web Services, Inc. or its affiliates. All rights reserved.	English *

5. After signing in, navigate to **Amazon MSK** service, click on **Create cluster**, then follow the instructions provided on the page.

← → C a eu-west-2.console.a	ws.amazon.com/misk/home?region-eu-west-28/clusters all 🔹 YouTube 🖗 Muss 📽 Home-Clanva 🚯 Snuppa 198 ppldmin 4 . NI. How to Embad Qu 🚯 Embed interactive	☆ 🥥 : 🖿 Other Bookmarks
aws Services - R	esource Groups 👻 🏌 🗘 Solvery chivers 👻	London • Support •
Amazon MSK ×	• Creating demo-cluster-1. The amount of time required to create a cluster depends on the size of the cluster. A cluster can take about 15 minutes to create.	×
Clusters Cluster configurations	Amazon MSK > Clusters Clusters (1) Q. Find clusters	Create cluster
	Cluster name V Status V Creation time Apache Kafka version V Brokers per Availability Zone V demo-cluster-1 Creation July 27, 2020, 9:10:41 PM GMT+1 2.2.1 1	Availability Zones v Z

 Once the Cluster has been created, click on it, and then navigate to the Client Integration Information page to view its details. Click on the Copy button under the Plaintext section, then paste it into the Bootstrap servers field in the Kafka Queue Provider configuration interface in RPI.



11 Cache Configuration

11.1 Azure Redis Cache

11.1.1 Azure Redis Cache provisioning

This section describes how to provision an Azure Redis Cache. Please follow the steps below:

- 1. In a web browser, log onto the Azure portal: <u>https://portal.azure.com</u>.
- 2. Click New > Data + Storage > Redis Cache.



3. Supply the required fields for the new instance and click Create.

New Redis Cache		—	
* DNS name			
enter a name			
	.redis.cach	e.windo	ows.net
* Subscription			
Interaction Developmer	ıt		~
 ★ Resource group ● ● Create new ○ Use 	existing		
* Location			
Central US			~
* Pricing tier			
Standard: 1 GB			/

11.1.2 Web Processor Site Configuration

This section describes how to configure the Web Processor web site to utilize the Redis caching mechanism to support RPI realtime decisions. Please follow the steps below.

- 1. Open the web.config file from the WebProcessor web site.
- Ensure you have uploaded these two assemblies within the Web Processor bin directory: Redpoint.Resonance.RedisCache.dll Sider.dll
- 3. In the web.config file, add the following entries:
 - <section name="redisCacheClient" type="Redpoint.Resonance.RedisCache.Configuration.RedisCacheClientSection, Redpoint.Resonance.RedisCache" />

This entry must be added within the <configSections> section.

<setting name="WebCacheAssembly" serializeAs="String"><value>Redpoint.Resonance.RedisCache</value></setting><setting name="WebCacheClass" serializeAs="String"><value>Redpoint.Resonance.RedisCacheClass" serializeAs="String"></setting></setting></setting></setting></setting></setting></setting></setting></setting></setting></setting></setting></setting></setting></setting>

These entries must be added within the <Redpoint.Resonance.Web.Shared.Properties.Settings> section.

<redisCacheClient><host IPAddresses="10.100.68.157:6379"/></redisCacheClient>

If running on a clustered Redis environment, the specified IP addresses in IPAddresses setting must be in a comma separated value. The <redisCacheClient> entry must be added within the <configuration> section.

11.2 Amazon DynamoDB Accelerator (DAX)

11.2.1 Launch an Amazon Instance

This section describes how to launch an Amazon EC2 instance in your default Amazon VPC. Please follow the steps below:

- 1. Sign into the AWS Management Console and open the Amazon EC2 console at https://console.aws.amazon.com/ec2/.
- 2. Press Launch Instance.

🎁 Services 🗸	Resource Groups 👻 🔭	
EC2 Dashboard	Resources	
Tags	You are using the following Amazon EC2 resources	in the US East (N. Virginia) region:
Reports	0 Running Instances	0 Elastic IPs
Limits	0 Dedicated Hosts	0 Snapshots
- INSTANCES	0 Volumes	0 Load Balancers
Instances	0 Key Pairs	1 Security Groups
Spot Requests	0 Placement Groups	
Reserved Instances		
Scheduled Instances	Just need a simple virtual private server? Get e	wenthing you need to jumpstart your project - compute sto
Dedicated Hosts	networking – for a low, predictable price. Try Ar	mazon Lightsail for free.
IMAGES		
AMIs	Create Instance	
Bundle Tasks	Cleate Instance	
ELASTIC BLOCK STORE	To start using Amazon EC2 you will want to launch	a virtual server, known as an Amazon EC2 instance.
Volumes	Launch Instance	
Snapshots		
NETWORK & SECURITY	Note: Your instances will launch in the US East (N. Virginia)	region

3. From the list of AMIs, find the Windows Server 2016 Base and choose Select.



4. At the top of the list of instance types, choose t2.large. Choose Next: Configure Instance Details.

1. Cho Step	2. Choose Instance	e Type 3. Configur	e Instance 4. Ad	dd Storage 5. Add	d Tags 6. Configure Secu	rity Group 7. Review		
Curre	ntly selected: t2.large (Varia Family -	able ECUs, 2 vCPUs	s, 2.3 GHz, Intel B vCPUs (j) -	roadwell E5-2686v	4, 8 GIB memory, EBS only Instance Storage (GB) (i	y) EBS-Optimized Available (j)	Network Performance	IPv6 Support ~
	General purpose	t2.nano	1	0.5	EBS only	-	Low to Moderate	Yes
	General purpose	t2.micro Free tier eligible	1	1	EBS only	-	Low to Moderate	Yes
	General purpose	t2.small	1	2	EBS only	-	Low to Moderate	Yes
	General purpose	t2.medium	2	4	EBS only	-	Low to Moderate	Yes
	General purpose	t2.large	2	8	EBS only	-	Low to Moderate	Yes
	General purpose	t2.xlarge	4	16	EBS only	-	Moderate	Yes
					Cancel Previous	Review and Laur	nch Next: Configure Ir	1stance Details

5. For Network, choose your default VPC then press Next: Add Storage.

1. Choose AMI 2. Choose Instance Type	3. C	onfigure Instance	4. Add Storage	5. Add Tags	6. Configu	ure Security	Group 7. R	eview	
Configure the instance to suit your requir management role to the instance, and m	ICE L ements. pre.	You can launch mu	Itiple instances f	from the same AM	/II, request	Spot insta	nces to take a	advantage of the lower pric	ing, assign an access
Number of instances	i	1		Launch into Auto	o Scaling G	Group 🕕			
Purchasing option	()	Request Spot	instances						
Network	()	vpc-d3802fba (d	efault)		C	Create	new VPC		
Subnet	i	No preference (d	lefault subnet in	i any Availability Z	Zon 🗸	Create	new subnet		
Auto-assign Public IP	()	Use subnet setti	ng (Enable)		\sim				
Placement group	()	Add instance t	o placement gro	oup.					
Domain join directory	(i)	No directory			С	Create r	new directory		
IAM role		None			~ C	Create r	new IAM role		
Shutdown behavior	(i)	Stop			\sim				
Enable termination protection	i	Protect agains	t accidental terr	mination					
Monitoring	(j)	Cloud Additional charge	Watch detailed r	monitoring					
Tenancy	(j)	Shared - Run a s Additional charge	shared hardware as will apply for e	e instance dedicated tenanc	✓ y.				
Elastic GPU	()	Add GPU	es apply.						
T2/T3 Unlimited	()	Enable							~
						Cancel	Previous	Review and Launch	Next: Add Storage

- 6. Skip the Add Storage step by choosing **Next: Tag Instance**.
- 7. Skip the Tag Instance step by choosing Next: Configure Security Group.
- 8. In the list of security groups, choose default. This is the default security group for your VPC.
- 9. Press Next: Review and Launch.

1. Choose AMI	2. Choose Instance Type	3. Configure Instance	4. Add Storage	5. Add Tags 6. Co	onfigure Security Group	7. Review	
Step 6: Co A security group set up a web ser from an existing	onfigure Secur is a set of firewall rules t ver and allow Internet tra one below. Learn more	ity Group hat control the traffic for you ffic to reach your instance about Amazon EC2 securi	our instance. On th , add rules that all ity groups.	his page, you can add low unrestricted acces	rules to allow specific tr s to the HTTP and HTTP	affic to reach your instance. Fo PS ports. You can create a new	or example, if you want to v security group or select
	Assign a security g	roup: OCreate a new se Select an existin	curity group I g security group				
Security	Group ID		Name	Descriptio	n		Actions
🔳 sg-6e8d1a	107		default	default VPC	security group		Copy to new
Inbound rules	for sg-6e8d1a07 (Selec	ted security groups: sg-	6e8d1a07)				
Туре (і)	P	rotocol (j)	Port Ra	inge (i)	Source (i)	Descript	tion (i)
							-
All traffic	A	1	All		sg-6e8d1a07 (de	efault)	
All traffic	Al	1	All		sg-6e8d1a07 (de	efault)	
All traffic	A	1	All		sg-6e8d1a07 (d	efault)	

- 10. Review the instance and press Launch.
- 11. To select an existing key pair or create a new key pair, do one of the following:

- If you do not have an Amazon EC2 key pair, choose Create a new key pair and follow the instructions. You are asked to download a private key file (.pem file); you will need this file later when you log in to your Amazon EC2 instance.
- If you already have an existing Amazon EC2 key pair, go to Select a key pair and choose your key pair from the list. You must have the private key file (.pem file) available in order to log in to your Amazon EC2 instance.
- 12. When you have configured your key pair, choose Launch Instances.

11.2.2 Create an IAM and User Policy

This section describes how to create an IAM user with a policy that grants access to your Amazon DynamoDB Accelerator (DAX) cluster and to DynamoDB. Please follow the steps below:

- 1. Open the IAM console at https://console.aws.amazon.com/iam/.
- 2. In the navigation pane, choose Users.
- 3. Choose Add user.

aws	Services 🗸 Resource Groups 🗸 🛠
Search IAM	Add user Delete user
Dashboard	Q Find users by username or access key
Groups Users	User name 👻

- 4. Input the **User name** and choose **Pragmatic access**.
- 5. Press Next: Permission.

Add use	r	1	2 3 4
Set user de	etails		
You can add mul	Itiple users at once with t	he same access type and permissions. Learn more rom Add another user	
Select AWS a	access type e users will access AWS.	Access keys and autogenerated passwords are provided in the last step. Learn more	
	Access type*	Programmatic access Enables an access key ID and secret access key for the AWS API, CLI, SDK, an other development tools.	d
		AWS Management Console access Enables a password that allows users to sign-in to the AWS Management Consol	5
			¢.

6. In the Set permissions page, choose Attach existing policies directly, and then choose Create policy.

Add user			1 2 3 4
 Set permissions 			
Add user to group	Copy permissions from existing user	ach existing policies ectly	
Create policy			2

- 7. In the Create Policy Page, go to the JSON tab.
- 8. Copy the text below, then paste it to the JSON field:

{
"Version": "2012-10-17".
"Statement": [
Statement . [
{
"Action": [
"dax:*"
1
J) "Effect": "Allow"
Effect Allow,
"Resource": [

1
1
"Action": [
"dynamodb:*"
1.
"Effect": "Allow"
"Decourses": [
Resource . [
]
}
1
1

9. Go to the Visual Editor tab; its contents should look like this:

Visual editor JSON		Import m	anaged policy
Expand all Collapse all			
DynamoDBAccelerator (All actions)			Remove
Service	DynamoDBAccelerator		
Actions	Manual actions		
Resources	All resources		
Request conditions	Specify request conditions (optional)		
▼ DynamoDB (All actions)		Clone	Remove
Service	DynamoDB		
Actions	Manual actions		
Resources	All resources		
Request conditions	Specify request conditions (optional)		
	Cancel	Revi	iew policy

- 10. Press Review Policy.
- 11. In the Review policy page. Input the **Policy name** and **Description**.
- 12. Press Create policy to save.

Review policy	1				
Name*	MyDAXUserPolicy				
	Use alphanumeric and '+=,.@' cha	aracters. Maximum 128 characte	ers.		
Description	This policy contains full acces	ss to DynamoDB and Dyna	moDBAccelerator		
	Maximum 1000 characters. Use alp	hanumeric and '+=,.@' charac	ters.		
Summary	Q Filter				
	Service 🔻	Access level		Resource	
	Allow (2 of 146 services) S	how remaining 144			
	DynamoDB	Full access		All resources	\$
	DynamoDBAccelerator	Full access		All resources	5
	<				>
* Required			Cancel	Previous	Create policy

13. Press Next Review.

14. On the Review page, choose **Create user**.

15. On the Complete page, go to the Secret access key and choose Show. After you do this, copy both the Access key ID and Secret access key. You need both identifiers the **Configure Your Amazon EC2 Instance** step, below.

11.2.3 Configure Your Amazon EC2 Instance

This section describes how to prepare your Amazon EC2 instance for use. Please follow the steps below:

- 1. Open the Amazon EC2 console at https://console.aws.amazon.com/ec2/.
- 2. Use the ssh command to log in to your Amazon EC2 instance, for example:

ssh -i my-keypair.pem ec2-user@public-dns-name

You will need to specify your private key file (.pem file) and the public DNS name of your instance (see the previous section). The login ID is ec2-user. No password is required.

3. After you log in to your EC2 instance, you need to configure your AWS credential. Type your AWS access key ID and secret key (see above) and set the default Region name to your current Region (in the following example, the default Region name is us-west-2).

aws configure	
AWS Access Key ID [None]: AKIAIOS AWS Secret Access Key [None]: wJa Default region name [None]: us-west-2 Default output format [None]:	

11.3 Alachisoft NCache

11.3.1 Download and Setup of NCache

This section describes how to download and setup NCache. Please follow the steps below:

- 1. Navigate to https://www.alachisoft.com/download-ncache.html
- 2. Download any of the Enterprise versions for Windows.



3. Register with your work email and submit the form.

	Cloud
User Registration	
Already Registered? If you have already registered with Alachisoft to download be Work Email:*	fore, just enter your email address:
New User? If this is your first time to download from our website, please	fill out this form. Fields marked with [*] are required.
Work Email: * (License key sent here)	Job Title: *
First Name: *	Last Name: *
Work Phone: *	Phone Number
For verification purposes we may call this phone number. To avoid dela	ay, please make sure it is correct.
Company: *	Company URL: (Optional)
	http://www.
Register	

4. Accept the license agreement, proceed with the download, and <u>then follow their instructions to</u> <u>install</u>.

ore (Windows)
/ to download it.
60 days with all its features.
he permanent license key converts the product from
ur SPAM filters to make sure it hasn't blocked it. If it l
5.2
Mar-25-2021
125 MB
Download
NCache Installation Guide for Windows
n. This will start the installer.

5. Your installation key will be emailed to you.

NCache Enterprise 5.2 Installation Key		
Alachisoft Support <support@alachisoft.com> To Alan Dano</support@alachisoft.com>	← Reply	
Greetings,		
Thank you for downloading NCache Enterprise. This is a fully-working FREE 6 features. Please use following information to install NCache in your environn	0-day trial and nent.	l provides you acce
Installation Key: F/d2		

6. Open the NCache management panel at: <u>http://localhost:8251/</u> to create a new cache.

\leftarrow	\rightarrow	C 🛈 loc	alhost:8251/ClusteredCach	es		\$6 €	Reference Not syncing 🚯
≡	۷N	Cache by Alachiaot					🌲 🗳 🕯
#	4	Clustered Ca	aches				Home / Clustered Caches
न अ	C	New 🚯 Add	🖨 Remove 🕨 Start	E Stop 🗳 Restart	n Test-Stress & Monitor 🔚 Statistics C Refresh		
		Cache Name	Тороlоду	Server Platform	Servers		
		demoCache	Partitioned-Replica	Windows	10.172.194.15 (RPG-ADANO11) Evaluation Expires on 25-Sep-2021		View Details

11.3.2 Configuring RPI to use NCache

This section describes how to configure RPI to use NCache. Please follow the steps below:

1. In Windows Explorer, open the "appsettings.json.config" file in a text editor such as Notepad or Notepad++. File location: C:\inetpub\wwwrpi\InteractionRealtimeAPI.

Name Date modified App_Data 23/07/2021 10:24 am bin 23/07/2021 10:24 am Content 23/07/2021 10:24 am fonts 23/07/2021 10:24 am Swagger 23/07/2021 10:24 am Views 23/07/2021 10:24 am Views 23/07/2021 10:24 am appsettings.Example 02/07/2021 2:27 pm	
App_Data 23/07/201 10:24 am bin 23/07/2021 10:24 am Content 23/07/2021 10:24 am fonts 23/07/2021 10:24 am Swagger 23/07/2021 10:24 am Views 23/07/2021 10:24 am 23/07/2021 10:24 am 02/07/2021 10:24 am	Туре
bin 23/07/2021 10:24 am Content 23/07/2021 10:24 am fonts 23/07/2021 10:24 am Swagger 23/07/2021 10:24 am Views 23/07/2021 10:24 am appsettings.Example 02/07/2021 2:27 pm	File fold
Content 25/07/2021 10:24 am fonts 23/07/2021 10:24 am Swagger 23/07/2021 10:24 am Views 23/07/2021 10:24 am Tappsettings.Example 02/07/2021 2:27 pm	File fold
fonts 23/07/2021 10:24 am Swagger 23/07/2021 10:24 am Views 23/07/2021 10:24 am appsettings.Example 02/07/2021 2:27 pm	File fold
Swagger 23/07/2021 10:24 am Views 23/07/2021 10:24 am appsettings.Example 02/07/2021 2:27 pm	File fold
Views 23/07/2021 10:24 am Image: Transformation of the second seco	File fold
appsettings.Example 02/07/2021 2:27 pm	File fold
	JSON Fil
appsettings.json.config 606/07/2021 2:26 pm	XML Co
favicon 02/07/2021 2:24 pm	lcon
He Global.asax 02/07/2021 2:24 pm	ASP.NET
lcon 02/07/2021 2:24 pm	PNG File
[] libman 02/07/2021 2:24 pm	JSON Fil
Packages.config 02/07/2021 2:27 pm	XML Co
Web.config 23/07/2021 9:12 am	XML Co

2. Find the CacheSettings section.



3. Replace the configuration settings with the NCache settings of the cache created in step 6 of the prior section.



11.4 Azure CosmosDB as a Cache

11.4.1 CosmosDB Cache Configuration

This section describes how to provision an CosmosDB Cache. Please follow the steps below:

- 1. Login to Azure portal by navigating to <u>https://portal.azure.com</u> on your web browser.
- 2. Go to Home section and find Azure **CosmosDB**

Microsoft Azure	P Search resources, services, and docs (G+/)		
Home >			
Azure Cosmos DB 🛷 …			
RPG Internal			
+ Create ? Restore 😢 Manage view 🗸 🔾 Refresh			
Filter for any field Subscription == CloudOps-Test	Resource group == all × Location == all × + Add filter		
Showing 0 to 0 of 0 records.			
Name 🔿	Status 1	Subscription 1	Write Region
	No Azure	Cosmos DB accounts to display	
	Create a globally distributed, multi-mod 20k R	el, fully managed database using API of your choice. C RU/s, for 30 days with unlimited renewal.	ir try it for free, up to
		Create Azure Cosmos DB account	
		Try now p?	

3. In the "Select API option" page, choose "Core (SQL) – Recommended." **Click Create.**

Microsoft Azure	$\mathcal P$ $$ Search resources, services, and docs (G+/) $$	
me > Azure Cosmos DB >		
elect API option		
hich API best suits your workload?		
ire Cosmos DB is a fully managed NoSQL database service for buildin	g scalable, high performance applications. Learn more	
tart, select the API to create a new account. The API selection cannot	be changed after account creation.	
Core (SQL) - Recommended	Azure Cosmos DB API for MongoDB	Cassandra
Azure Cosmos DB's core, or native API for working with documents. Supports fast, flexible development with familiar SQL query language and client libraries for .NET, JavaScript, Python, and Java.	Fully managed database service for apps written for MongoDB. Recommended if you have existing MongoDB workloads that you plan to migrate to Azure Cosmos DB.	Fully managed Cassandra database service for apps written for Apache Cassandra. Recommended if you have existing Cassandra workloads that you plan to migrate to Azure Cosmos DB.
Create	Create Learn more	Create Learn more
Azure Table	Gremlin (Graph)	
Fully managed database service for apps written for Azure Table storage. Recommended if you have existing Azure Table storage workloads that you plan to migrate to Azure Cosmos D&, but do not want to re-write your application to use the SQL API.	Fully managed graph database service using the Gremlin query language, based on Apache TinkerPop project. Recommended for new workloads that need to store relationships between data.	
Create Learn more	Create Learn more	

 Provide the required fields on the "Create Azure Cosmos DB Account – Core (SQL)" page.

Microsoft Azure	(P) Search resources, and docs (G+))
Home > Azure Cosmos DB > Sele	et API option >
Create Azure Cosmo	os DB Account - Core (SQL)
Basics Global Distribution	Networking Backup Policy Encryption Tags Review + create
Azure Cosmos DB is a fully managed	NoSQL database service for building scalable, high performance applications. Try it for free, for 30 days with unlimited renevals. Go to production starting at \$24/month per database, multiple containers included. Learn more
Project Details	
Select the subscription to manage de	sployed resources and costs. Use resource groups like folders to organize and manage all your resources.
Subscription *	CloudOps-Test
Resource Group *	(New) Cosmos-Test
	Cruste new
Instance Details	
Account Name *	cosmosiqi
Location *	[U5] East U5 2
Capacity mode ③	Provisioned throughput O serverless
	Learn more about capacity mode
With Azure Cosmos DB free tier, you	will get the first 1000 RU/s and 25 GB of storage for free in an account. You can enable free tier on up to one account per subscription. Estimated \$64/month discount per account.
Apply Free Tier Discount	Apply O Do Not Apply
Limit total account throughput	Unit the total amount of throughput that can be provisioned on this account
	17 This limit will prevent unexpected charges related to provisioned throughput. You can update or remove this limit after your account is created.
Review + create	Previous Next Global Distribution

5. Specify the Global Distribution settings of the database to be created. Click "Next: Networking" button.



6. Specify the desired connectivity method in the Networking page. Click "Next: Backup Policy" button.



7. Specify the backup policy settings of the database to be created. Click "Next: Encryption" button.

ome > Azure Cosmos DB > Select	API option >		
reate Azure Cosmos	DB Account - Co	e (SQL)	
		- ()	
Basics Global Distribution N	etworking Backup Policy	Encryption Tags	Review + create
azure Cosmos DB provides two differe	nt backup policies. You will not be	able to switch between	backup policies after the account has been created. Learn more about the differences of the two backup policies and pricing details. Learn m
ackup policy ③	Periodic () Continuo	ľs	
sackup interval	240	Minutale) V	
	60-1440	winute(s)	
ackup retention ③	8	Hours(s) 🗸	
	8-720		
opies of data retained	2		
ackup storage redundancy * 💿	Geo-redundant backup	storage	
	O Zone-redundant backup	storage	
	 Locally-redundant back. 	ip storage	

8. Choose "Service-managed key" for the encryption. Click "Next: Tags" button.

Home > Azure Cosmos DB > Select API option > Create Azure Cosmos DB Account - Core (SQL) Basics Global Distribution Networking Backup Policy Encryption Tags Review + create Data Encryption Azure Cosmos DB encryption protects your data at rest by seamlestly encrypting your data as it's written in our dataomters, and automatically decrypting it for you as you access it. By default your Azure Cosmos DB account is encrypted at rest using senice-managed keys. At the moment, you will not be able to switch back to service-managed key after opting into using custom-managed key while creating your account. Learn to Data Encryption © Service-managed key (Enter key UR)
Create Azure Cosmos DB Account - Core (SQL) Basics Global Distribution Networking Backup Policy Encryption Tags Review + create Data Encryption Azure Cosmos DB account is encrypted at rest by seamlessly encrypting your data at its written in our datacenters, and automatically decrypting it for you as you access it. By default your Azure Cosmos DB account is encrypted at rest uning service-managed keys. At the moment, you will not be able to switch back to service-managed key after opting into using outdom-managed key while creating your account. Learn to Data Encryption Outdomer-managed key (Enter key UR) Outdomer-managed key (Enter key UR)
Basics Global Distribution Networking Backup Policy Encryption Data Encryption Azure Cosmot DB encryption protects your data at rest by seamlessly encrypting your data as it's written in our datacenters, and automatically decrypting it for you as you access it. By default your Azure Cosmot DB account is encrypted at rest using service-managed keys. At the moment, you will not be able to switch back to service-managed key after opting into using custom-managed key while creating your account. Learn to be account is encrypted at rest using the key Data Encryption Image: Service-managed key (Enter key UBR)
Basics Global Distribution Networking Backup Policy Encryption Tags Review + create Data Encryption Data Encryption Tags Review + create Interview + create Aute Cosmot DB encryption protects your data at rest by seamlessly encrypting your data at its written in our datacenters, and automatically decrypting it for you at you access it. By default your Azure Cosmos DB account is encrypted at rest using service-managed keys. At the moment, you will not be able to switch back to service-managed key after opting into using outcom-managed key while creating your account. Learn M Oats Encryption Image: Service-managed key (finter key UR)
Data Encryption Azure Cosmos Dil encryption protects your data at rest by seamlessly encrypting your data as it's written in our datacenters, and automatically decrypting it for you as you access it. By default your Azure Cosmos DB account is encrypted at rest using senice-managed keys. At the moment, you will not be able to switch back to senice-managed key after opting into using outsom-managed key while creating your account. Learn to Data Encryption Optia Encryption Senice-managed key Customer-managed key (Enter key UR)
Azure Cosmot DII encryption protects: your data at rest by seamlessly encrypting your data as it's written in our datacenters, and automatically decrypting it for you as you access it. By default your Azure Cosmos DI account is encrypted at rest using senice-managed keys. At the moment, you will not be able to switch back to senice-managed key after opting into using custom-managed key while creating your account. Learn to Data Encryption O Senice-managed key (Enter key URI) Customer-managed key (Enter key URI)
By default your Azure Cosmos DB account is encrypted at rest using service-managed keys. At the moment, you will not be able to switch back to service-managed key after opting into using custom-managed key while creating your account. Learn A Data Encryption Outsomer-managed key (Enter key UR) Customer-managed key (Enter key UR)
Data Encryption Service-managed key (Enter key UR) Customer-managed key (Enter key UR)
Customer-managed key (Enter key URI)
Review + create Previous Next Tags

9. Add tags for the database. Leave blank if not needed. Click "Next: Review + create" button.

astics Global Distribution Networking Backup Policy Encryption Tags Reviet lasics Global Distribution Networking Backup Policy Encryption Tags Reviet lags are name/value pairs that enable you to categorize resources and view consolidated billing by applicite that If you create tags and then change resource settings on other tabs, your tags will be automatic Key	Review + create y applying the same tag to multiple resources and resource groups. Jean more omatically updated.	
Bits Global Distribution Networking Backup Policy Encryption Tags Revie gs are name/value pairs that enable you to categorize resources and view consolidated billing by applict that if you create tags and then change resource settings on other tabs, your tags will be automatic Tags Review resource Key Review Review	Review + create y applying the same tag to multiple resources and resource groups. Jeam more omatically updated.	
ssics Global Distribution Networking Backup Policy Encryption Tags Revie gs are name/value pairs that enable you to categorize resources and view consolidated billing by appl cte that if you create tags and then change resource settings on other tabs, your tags will be automati Key	Review + create y applying the same tag to multiple resources and resource groups. learn more omatically updated.	
asics Global Distribution Networking Backup Policy Encryption Tags Revie aga are name/value pains that enable you to categorize resources and view consolidated billing by appli- ote that if you create tags and then change resource settings on other tabs, your tags will be automati- key	Review + create y applying the same tag to multiple resources and resource groups. learn more iomatically updated.	
gs are name/value pairs that enable you to categorize resources and view consolidated billing by appl cite that if you create tags and then change resource settings on other tabs, your tags will be automati Key	y applying the same tag to multiple resources and resource groups. learn more tomatically updated.	
gs are name, value pairs and endore you to categorize resources and view consolicated olimity by app ote that if you create tags and then change resource settings on other tabs, your tags will be automati Key	y apprying the same tag to multiple resources and resource groups. Hearn more tomatically updated.	
] Key		
Key	36-5	Province Trans
	Value	Resource Type
		Azure Cosmos DB a

11. Review the settings of the database to be created. If correct, click the Create button.



12. Once the provisioning of the new CosmosDB database has completed successfully, you can find the connection string from the settings on the left menu by clicking "Keys". The primary and secondary connection strings will be shown. These will be required for the RPI Realtime Configuration, along with the database ID. Refer to the RPI Admin guide for additional details regarding this configuration.

Search (Ctrl+/)	κ	
Settings	Read-write Keys Read-only Keys	
🖀 Features		
Replicate data globally		0
Default consistency	PRIMARY KEY	
Backup & Restore		0
G Firewall and virtual networks	SECONDARY KEY	
(I) Private Endpoint Connections		D
🕺 CORS	PRIMARY CONNECTION STRING	
📯 Dedicated Gateway		0
📍 Keys	SECONDARY CONNECTION STRING	D
Advisor Recommendations		
Ø Microsoft Defender for Cloud		
💲 Identity		
🔒 Locks		
Integrations		
Power BI		
Azure Synapse Link		

12 Survey Provider Configuration

12.1 SurveyMonkey

This section outlines how to configure SurveyMonkey to use its v3 API.

Note: Once your app has been created, any existing RPI SurveyMonkey channels must be re-authorized using the new Client ID and Secret. Re-using the same Client ID and Secret to create a new SurveyMonkey channel causes the previous channels to fail, as the previous access token will have become invalid. The recommended approach is to create a new SurveyMonkey app for the new channel.

12.1.1 Registering a SurveyMonkey App

- 1. In a browser, browse to https://developer.surveymonkey.com/ to login to your SurveyMonkey account.
- 2. Click the My Apps tab.



3. To create new App, click Add New App.

My Apps	+ Add New App

4. Enter the App Name and click Create App.

APP CREATION	×
App Nickname REQUIRED	
RPI_API_SMH	
Select an App Type. REQUIRED	Learn More
Public App	Private App
	.
Build an app for the App Directory	Build an app for you and your team
By clicking 'Create App', you agree to the SurveyMonke	y API Developer Terms.
	Create App

5. Once the App has been created, copy the Client ID and Secret values and store them securely. They are required when configure an RPI SurveyMonkey channel.

DETAILS			
×	test app		
	Client ID	Milwii770752eewAW/HeQ	
	Secret	show	
	Daily Quota Usage		2 / 500

6. In the Application section, click Settings.

🏠 Develope	er Home	My Apps	Docs	Status	FAQ
RPI_API_S	MH				
OVERVIEW	SETTINGS	LISTINGS			

7. For testing purposes, make sure 'Draft' status is selected. If for production use, either 'Public' or 'Private' must be selected. Note that these require a paid account plan. Please contact SurveyMonkey support for more details.

SETTINGS						
32111103						
Display Name	test app					
OAuth Redirect URL	https://www.surveymonkey.com					
Delete App		Submit Changes				
STATUS						
Draft Public Private						
When your app is in draft mode, only the account it is registered to can access it. Draft apps can access all scopes for free to build and test with for 90 days. You will be disabled after 90 days if you do not publish your app and upgrade to a paid plan as needed.						

8. Scroll down to ensure all Scopes are unlocked.

Sc	Scopes								
	Set the scope requirements for your application. Scopes allow your application to access resources on behalf of users. If a scope is required, users must approve it for OAuth to succeed. If a scope is optional, users do not need to approve it for OAuth to succeed, but your application will not be able to access resources controlled by scopes that aren't approved. If your application uses scopes that require a paid SurveyMonkey plan, users will need a paid plan to use your application. Read more about scopes.								
	NOTE: If you change scopes for your application you will need to re-authenticate all users to access new scopes.								
	\otimes	Create/Modify Collectors	Not Requested	\otimes	View Collectors	Not Requested			
	\otimes	Create/Modify Surveys	Not Requested	0	View Surveys	Not Requested			
	\otimes	Create/Modify Webhooks	Not Requested	\otimes	View Webhooks	Not Requested			
	\otimes	View Library Assets	Not Requested	\otimes	Create/Modify Responses	Not Requested			
	\otimes	View Responses	Not Requested	\otimes	View Response Details	Not Requested			
	\otimes	Create/Modify Contacts	Not Requested	\otimes	View Contacts	Not Requested			
	\otimes	View Workgroups	Not Requested	\otimes	Create/Modify Workgroups	Not Requested			
	\otimes	View Workgroup Members	Not Requested	\otimes	Create/Modify Workgroup Members	Not Requested			
	\otimes	View Roles	Not Requested	\otimes	Create/Modify Roles	Not Requested			
	\otimes	View Workgroups Shared Resources	Not Requested	\otimes	Create/Modify Workgroups Shared Resources	Not Requested			
	\otimes	View Users	Not Requested	\otimes	View Groups	Not Requested			
	\otimes	Modify Groups	Not Requested			Update Scopes			

- 9. To unlock a scope, click the icon.
- 10. Click Update Scopes to save your changes.
12.2 Alchemer

This section outlines how to configure Alchemer to use its v5 REST API.

- In a browser, browse to https://www.alchemer.com/ to create & login to your Alchemer account.
 NOTE: If an account has already been provisioned, skip to step 6 to create the API Key and API Secret
- 2. Click "Start a free trial".



3. Choose PROFESSIONAL and Click START FREE TRIAL.

	Our most popular!			
	Professional	Full Access		
⁹ 49	° 149	° 249		
or \$300	or \$1020	or \$1800		
per user, per year (Save 49% Annually)	per user, per year (Save 43% Annually)	per user, per year (Save 40% Annually)		
BUY NOW	BUY NOW	BUY NOW		
Start free trial	Start free trial	Start free trial		

4. Complete the required fields and click START A FREE TRIAL.

Create your account.	~
First name:*	Last name:*
Email Address* * This will be your us	ername Password:*
Organization:*	Industry:*
	Please Select
Department:*	Data Center:*
Please Select	▼ US ▼
 Stay up to date on t for creating and cor By accessing and u agreement and priv shared.* 	the latest developments and best practices nducting surveys. sing this page, you agree to our service racy policy. Your information will never be
s	atart a Free Trial

- 5. Check your email to verify your account.
- 6. Once the App has been created, copy the API key and API secret key and store. To get these, follow the steps below:
 - Click SECURITY
 - Click API ACCESS

a OALITH author	tication	
g of to fir fuddicit		
User	API Key	API Secret Key
		Save
	ig OAUTH authen User	ig OAUTH authentication. User API Key

- Click Create an API Key and Select a User.
- Click Save.

Reddit Configuration

This section describes how to create and configure Reddit for use with RPI.

- 1. In a browser, browse to <u>https://www.reddit.com/</u> to create an account.
- 2. Click Sign up.



3. Enter your Email and click Next.

Sign up to get your own personalized Reddit experience!	*	0 17
By having a Reddit account, you can join, vote, and comment on all your favorite Reddit content. Sign up in just seconds.	٥	
email address		10
NEXT Already have an account? Log In	Stand	-
	10° . 00°	1000

4. Choose your Username & Password, and click SUBMIT.

Choose your username Your username is how other community members will see you. This name will be used to credit you for things you share on Reddit. What should we call you?	
CHOOSE USERNAME	Having a hard time picking a name? Here are some available suggestions.
username	TraditionalMagazine0
SET PASSWORD	
password	REFRESH SUGGESTIONS
	BACK

5. Choose at least 5 interests, and click SUBSCRIBED and SUBMIT.

Just for you	1 selected	WHAT WE THINK YOU MIGHT LIKE	
Popular with Redditors		Computer Programming 2.6M subscribers	SUBSCRIBED
Advice			
Animals			
Art			-
DIY			
Electronics			
Entertainment			
Fashion			
Food		\square	
Funny			
Gaming			
Health			
Memes			
Music			
News			
Outdoors			
	\sim		

- 6. Check your Email to verify your account.
- 7. To get a Client ID & Client secret, click your username and click Visit Old Reddit.

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	ирыте грем верогт х Алиятичест	My STUFF My Profile
HEEOTT FEEDS	Help redditors get local info Add aduntatio by roomwunke, and relip us provide redditors with field information aduct CODD 16.	User Settings VIEW OPTIONS Night Mode
Popular All Top Communities	• • GET CODES	Reddit Coins 0 coins
Reddit Public Access Net	Start A the D New all Tap	Reddit Premium Help Center © Visit Old Reddit ©
r/Awwducational r/cats r/cats r/cats r/dogs	Ordensee - Noted by showed positions 125 hours age @ 1 State During the Reconstruction-era, the election of black-politicians led to increases in per capital tax unamese, which are not increased holds advantation 1 * (Public)	Log Out

8. Click preferences.



9. Select app tab and click are you a developer? Create an app.

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10. Fill out the required fields and click create app.

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name								
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description								
			//					
about url [
redirect uri								
create app								

11. Once the App has been created, copy the Client ID, Client secret and Redirect URI values and store them.

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description	Test Sample		1				
about url							
redirect uri	http://www.redpoi	ntglobal.com					
update app	delete app						
create another app							

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