

Partner Intelligence LabApp - Setup Doc

Please refer to the new medium [blog](#) (discard the following going forward)

Last updated: 🕒 6/30/2021

Note: This document is being updated to reflect a change in architecture to leverage new Parquet format (in AWS stack). It will be updated by July 6th 2021. Till then feel free to install Salesforce labapp in your PBO org.

Table of content:

Introduction, Architecture and features

Introduction, architecture and quick highlights of the app

Setup

AWS setup (30 to 45 minutes)

Salesforce org setup (15 minutes)

Test

Test the setup

Enable automation

Load history data

Go live

Business Intelligence (BI)

BI Option 1 (TCRM) - Pull data using **TCRM's** S3 connector

BI Option 2 (Tableau) - Use **Tableau** to connect to S3 directly

Introduction, Architecture & features:

AppExchange [App Analytics](#) provides usage data about how subscribers interact with your AppExchange solutions. You can use these details to identify attrition risks, inform feature development decisions, and improve user experience. This Salesforce Labs app automates the log retrieval using AppAnalytics API, and creating the summary data so ISV Partners can monitor adoption of their AppExchange solutions.

Disclaimer:

- This package should be treated as a starter pack to build out your own App Analytics solution
- While this starter pack is offered on AppExchange as a managed package, please note that this project will also be open-sourced on Github via the [@SalesforceLabs](#) repository, so you can extend the solution with your own custom code.
- This package does *not* include any actual AWS infrastructure. You'll need to set up your own AWS instance to retrieve and store App Analytics data. The package simply provides the framework to make this easy.

- Please keep in mind that this solution is not an official Salesforce product, and we're not able to offer support for it. While occasional updates will be released on AppExchange as new features are developed, you will otherwise be responsible for owning & managing the solution. If you need a turn-key solution, then we'd encourage you to check out other excellent App Analytics solutions on AppExchange.

Architecture

Two AWS Fargate docker containers run at scheduled times.

- 1. Log Sync function - Pulls the daily log files for the previous day
- 2. Summary function - Generates aggregated datasets

Setup:

Pre-requisite

- PBO/LMA org - Make sure your org is enabled for the daily logs. To verify you can use this [labapp](#) and make sure you can retrieve a file for data type: Package Usage Log. If it is not enabled please open a support case as per [this doc](#).

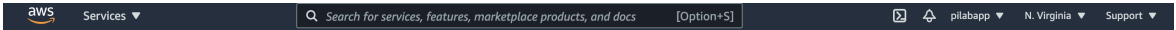
AWS - Setup

(Estimated time - 10 to 15 minutes depending on your familiarity with AWS)

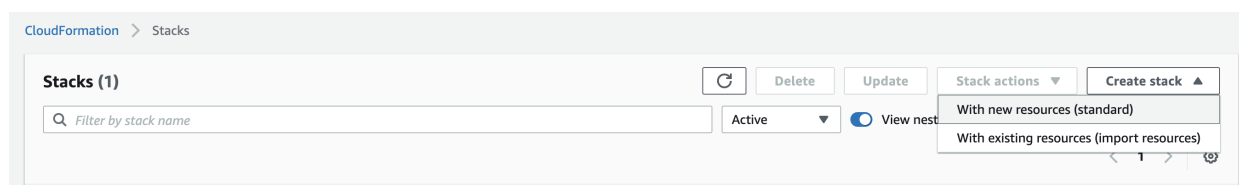
Create an AWS account (if you don't have one)

Note: Wait few minutes if you just created a new account

Step - 1 Create CloudFormation stack

- In AWS console, change region to us-east-1 (In top second right menu)
- 
- Go to AWS Services → CloudFormation → Stacks.
- Click “Create stack” with the option “With new resources (standard)”, select all defaults there after and

use this for S3 URL: <https://pi-public-template-bucket.s3.amazonaws.com/PiappjscdkStack.template.json>



Paste this S3 URL

CloudFormation > Stacks > Create stack

Step 1
Specify template

Step 2
Specify stack details

Step 3
Configure stack options

Step 4
Review

Create stack

Prerequisite - Prepare template

Prepare template
Every stack is based on a template. A template is a JSON or YAML file that contains configuration information about the AWS resources you want to include in the stack.

☒ Template is ready
 ☐ Use a sample template
 ☐ Create template in Designer

Specify template

A template is a JSON or YAML file that describes your stack's resources and properties.

Template source
Selecting a template generates an Amazon S3 URL where it will be stored.

☒ Amazon S3 URL
 ☐ Upload a template file

Amazon S3 URL

Amazon S3 template URL

S3 URL: Will be generated when URL is provided

Cancel

Put any stack name (e.g. PIAppStack), accept all other defaults, check acknowledge box on last screen and create the stack.

CloudFormation > Stacks > Create stack

Step 1
Specify template

Step 2
Specify stack details

Step 3
Configure stack options

Step 4
Review

Specify stack details

Stack name

Stack name

Stack name can include letters (A-Z and a-z), numbers (0-9), and dashes (-).

Parameters

Parameters are defined in your template and allow you to input custom values when you create or update a stack.

No parameters
There are no parameters defined in your template

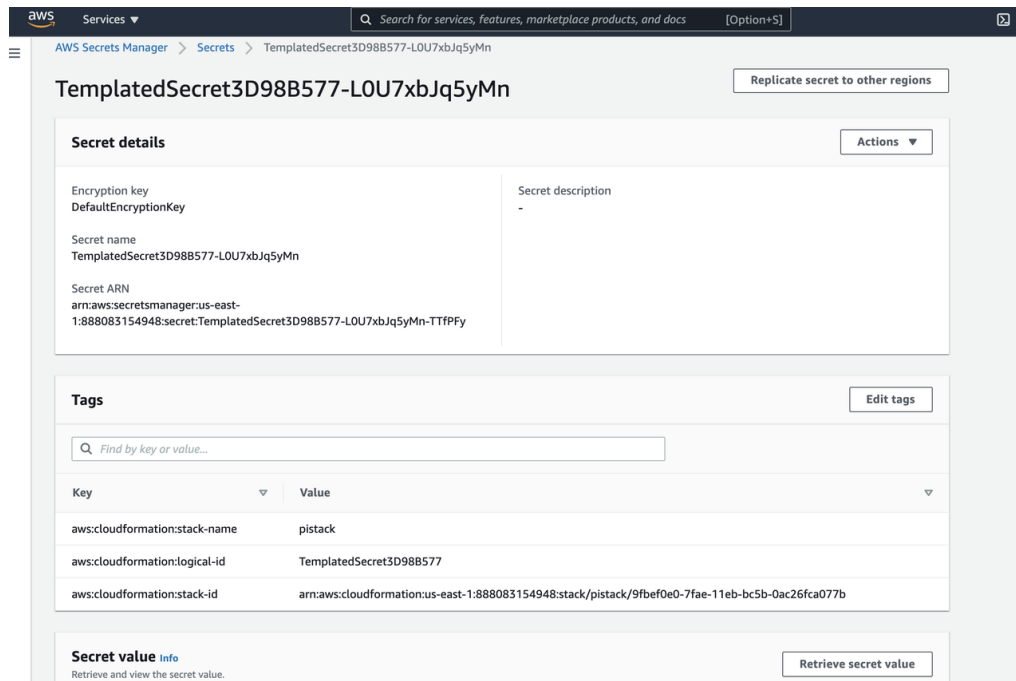
Cancel

Note: *Wait few minutes for stack creation*

Step - 2 Update secret keys with PBO login credentials

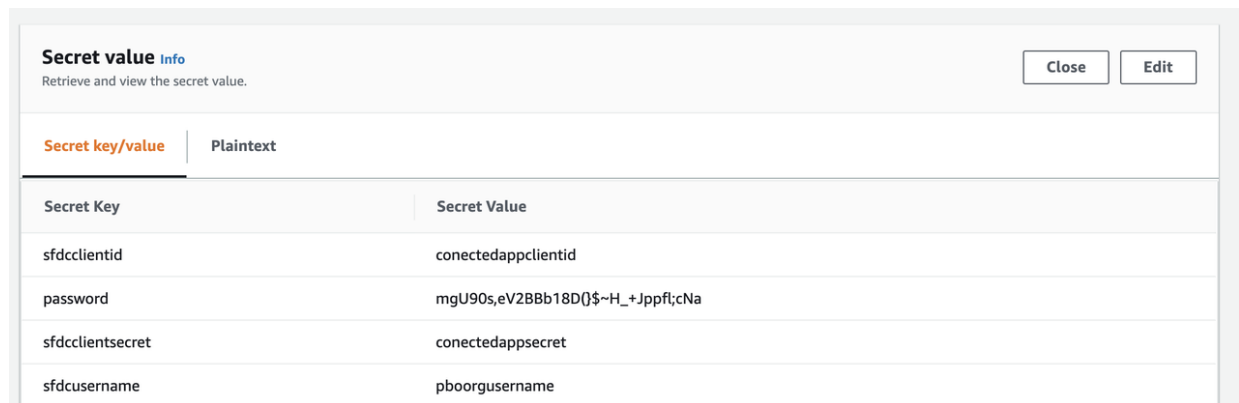
Go to AWS Services → Secret Manager

Find the secret starting with TemplatedSecret****



Click “Retrieve secret value“ button and update ”sfdcusername“ and ”password“ fields with your PBO credentials and save. Make sure to append security token to your password.

Note: sfdcclientid and sfdcclientsecret are optional for this phase.

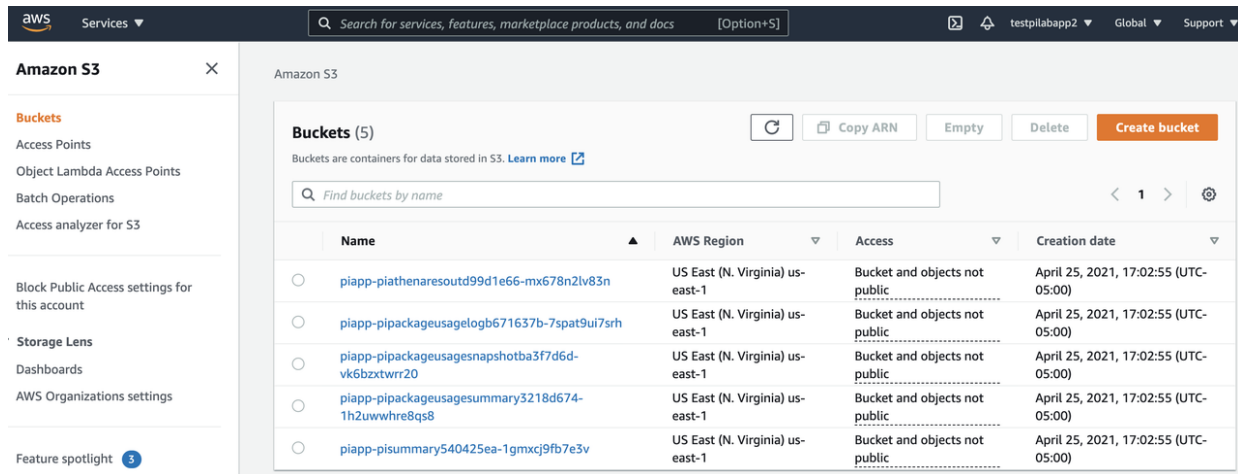


AWS - Stack Review & quick test

Review S3 buckets

Go to AWS Services → S3

Note - In following screenshot, the name that start with piappjscdkstack-piappdailylogbucket*** is where daily job will store the AppAnalytics csv files in a compressed format.



Salesforce PBO org - Setup

(Estimated time - 10 to 15 minutes)

Step 1 - Install the package

Step 2- Configure the Log pull records

Go to the application “PI Labapp”. In “Log Pull Config” tab, create a new record as shown below.

AppName - ISV appname (something that).

AppPackageId - Main PackageID of your app (something that is associated with your AppExchange listing)

Packages - Comma delimited packages e.g. 0331U000000EHq2, 0331U000000ABCD,...

You could have multiple packages associated with the main package.

If only one package is associated with the appexchange listing use same value as **AppPackageId**)

Default values

LogType -Only **PackageUsageLog (daily logs)** is supported. It will support other types in near future.

EnableDailyPull - Keep this disabled during initial testing. That means scheduled “Log pull” job will only work for log Manual requests (covered as next steps). If you enable this scheduled “Log pull” job will automatically pull logs for previous day

IsActive - Keep this enabled, unless you want to disable scheduled “Log pull” job completely

PI Labapp - Config...										
Log Pull Config										
All										
3 items • Sorted by EnableDailyBatch Name • Filtered by All log pull config • Updated a few seconds ago										
<input type="checkbox"/>	EnableD...	AppName	AppPackageId	Packages	EnableDailyPull	AAR...	A...	H...	IsActive	LogType
1	<input type="checkbox"/>	A-0000	Case timer		<input type="checkbox"/>	100	1	1	<input checked="" type="checkbox"/>	PackageUsageLog
2	<input type="checkbox"/>	A-0001	CMTD		<input type="checkbox"/>	100	6	1	<input type="checkbox"/>	PackageUsageLog
3	<input type="checkbox"/>	A-0002	TagitApp		<input type="checkbox"/>	100	1	1	<input checked="" type="checkbox"/>	PackageUsageLog

Step 3- Go to the app “Analytics Studio” and create a new app named “piapp” if it does not exist already.

Test

Step 1- In Salesforce, Create a Manual request to pull logs for couple of days in past for an App as shown

The screenshot shows the Salesforce 'Bulk Log Request' interface. At the top, there's a navigation bar with tabs: 'PI Labapp - Config...', 'Log Pull Config', 'Log Pull Activity', 'Bulk Log Request' (which is selected), 'Data Push Config', 'Data Push Activity', and 'FeatureEntityMa'. Below the navigation bar, the title 'Bulk Log Request' is displayed. The main section is titled 'LogRequestFlow'. It contains three required fields: 'Select App' with a dropdown menu showing 'Case timer', 'From Date' with a date picker set to 'Apr 12, 2021', and 'To Date' with a date picker set to 'Apr 15, 2021'.

Step 2 - Run AWS Stepfunction

Go to AWS Services → Step functions → Open state machine that starts with name “piappLogRequestStateMachine****”

Test Pull job function:

The screenshot shows the AWS Step Functions console. The left sidebar has a 'Step Functions' header and a list of options: 'State machines', 'Activities', 'Data flow simulator', 'Feature spotlight', 'Local Development', and 'Join our feedback panel'. The main content area is titled 'Step Functions > State machines'. It includes a search bar, a 'Create state machine' button, and a table of state machines.

Name	Type	Creation date	Status	Logs	Running	Succeeded
piappLogRequestStateMachine8815C1CA-mV8pDgBqRTFL	Standard	Jul 1, 2021 06:38:36.985 PM	Active	-	0	0
MyStateMachine	Standard	Jun 25, 2021 10:47:08.127 AM	Active	/aws/vendedlo...	0	43

Click “Start Execution”, use default JSON and click “Start execution”

AWS “Summary Sync” job pushes summary data to TCRM datasets using External API. Please refer to [this document](#)