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 & 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)
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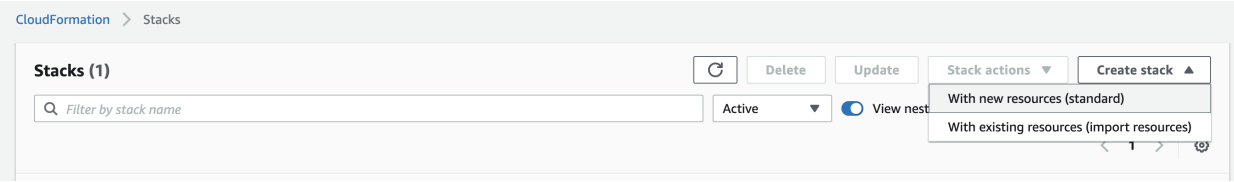
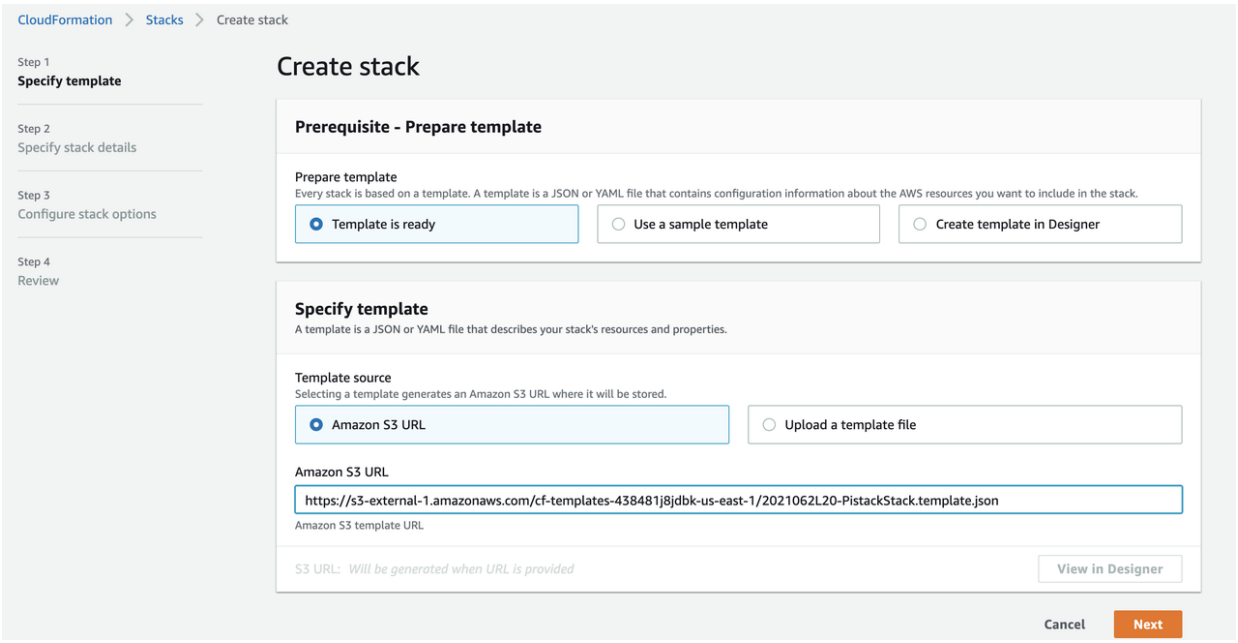
- Go to AWS Services → CloudFormation → Stacks.
- Click "Create stack" with the option "With new resources (standard)", select all defaults there after and

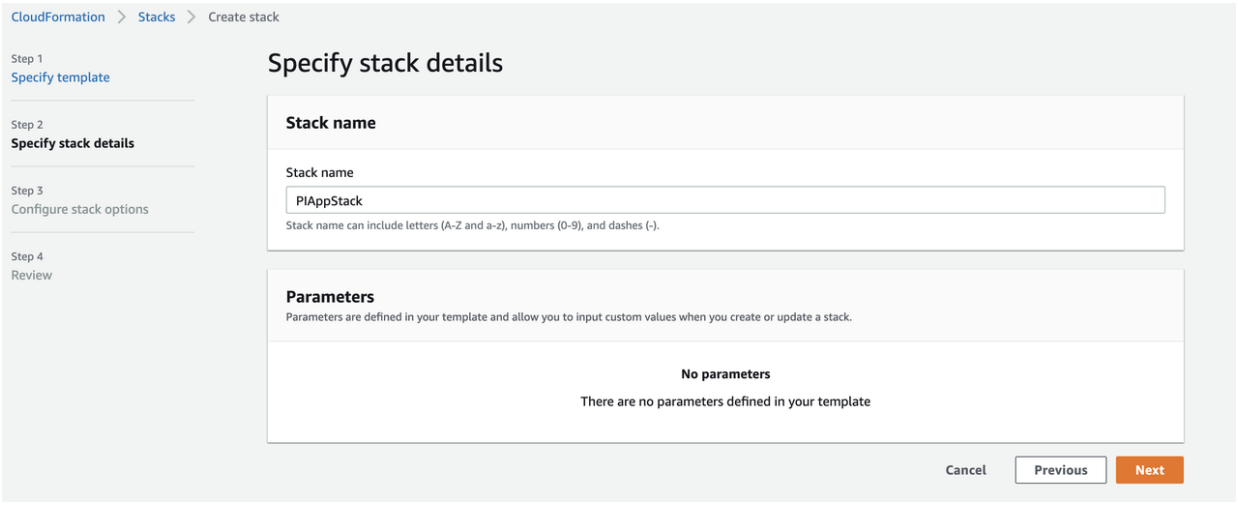
  use this for S3 URL: https://pi-public-template-bucket.s3.amazonaws.com/PiappjscdkStack.template.json



Paste this S3 URL



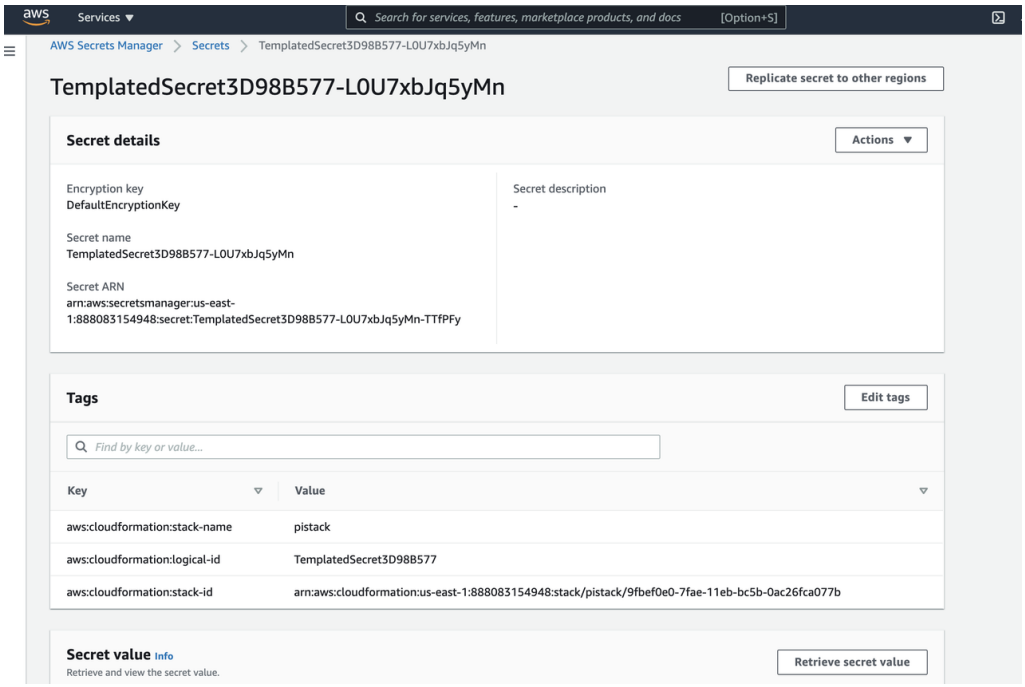
Put any stack name (e.g. PIAppStack), accept all other defaults, check acknowledge box on last screen and create the stack.



> *Note: Wait few minutes for stack creation*

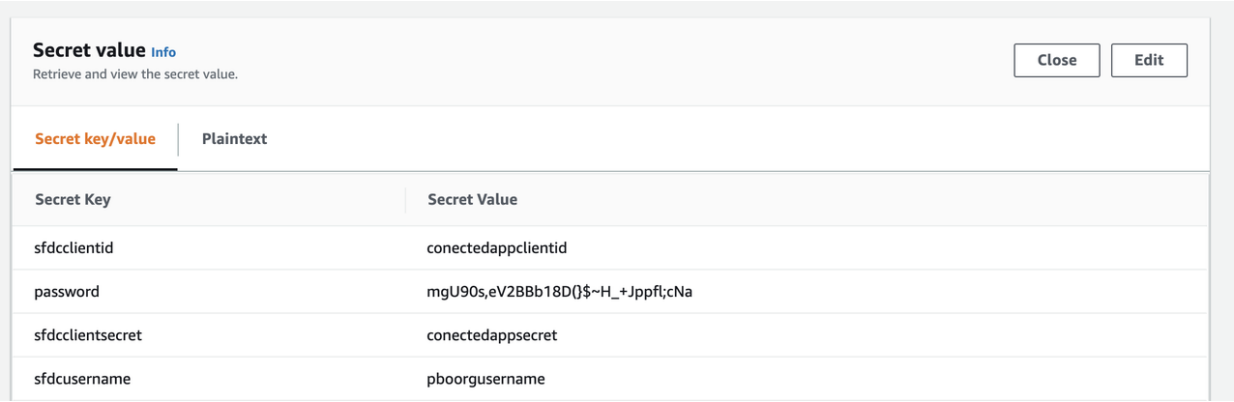
Step - 2 Update secret keys with PBO login credentials

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.

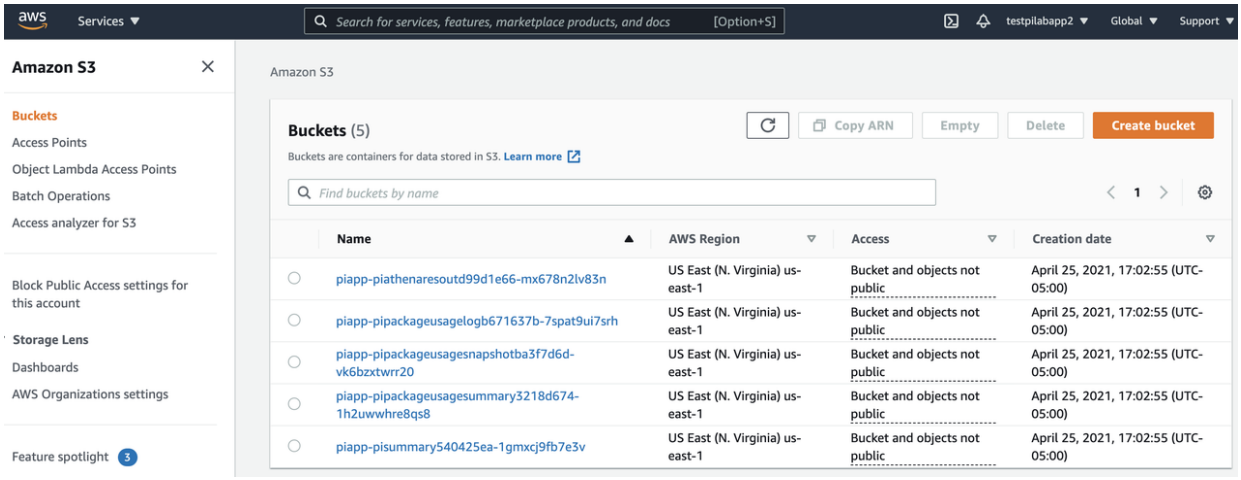
> *Note: sfdcclientid and sfdcclientsecret are optional for this phase.*



AWS - Stack Review & quick test

Review S3 buckets
Go to AWS Services →S3

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



Salesforce PBO org - Setup

(**Estimated time** - 10 to 15 **minutes**)

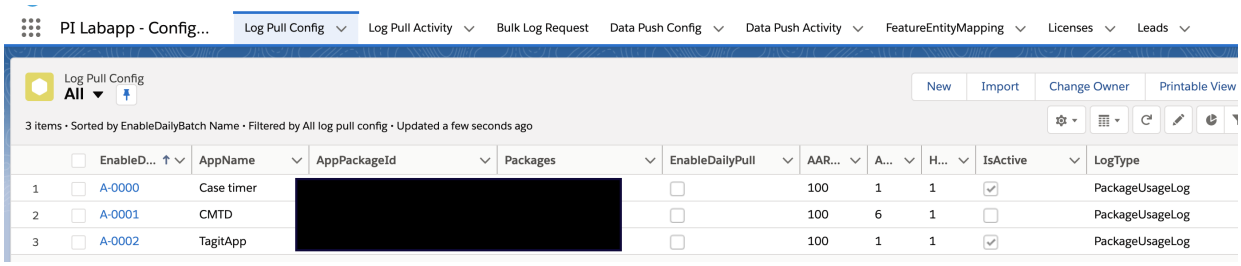
Step 1 - Install the package

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*

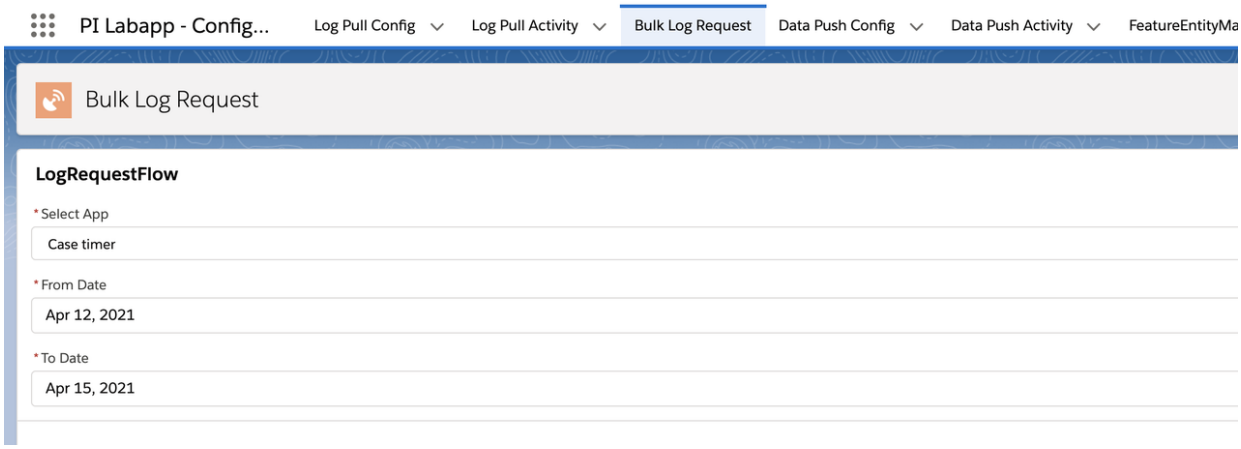
LogType -Only **PackageUsageLog (daily logs)** is supported. It will support other types in near future.
EnableDailyPull - Keep this disabled during initial testing. That means scheduled “Log pull” job will only work for log Manual requests (covered as next steps). If you enable this scheduled “Log pull” job will automatically pull logs for previous day
IsActive - Keep this enabled, unless you want to disable scheduled “Log pull” job completely



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

Test

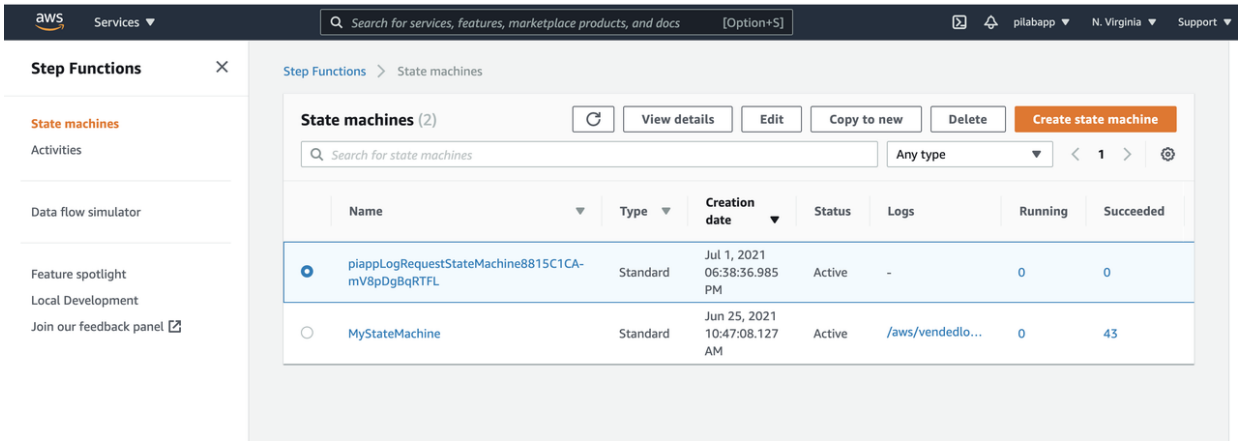
Step 1- In Salesforce, Create a Manual request to pull logs for couple of days in past for an App as shown



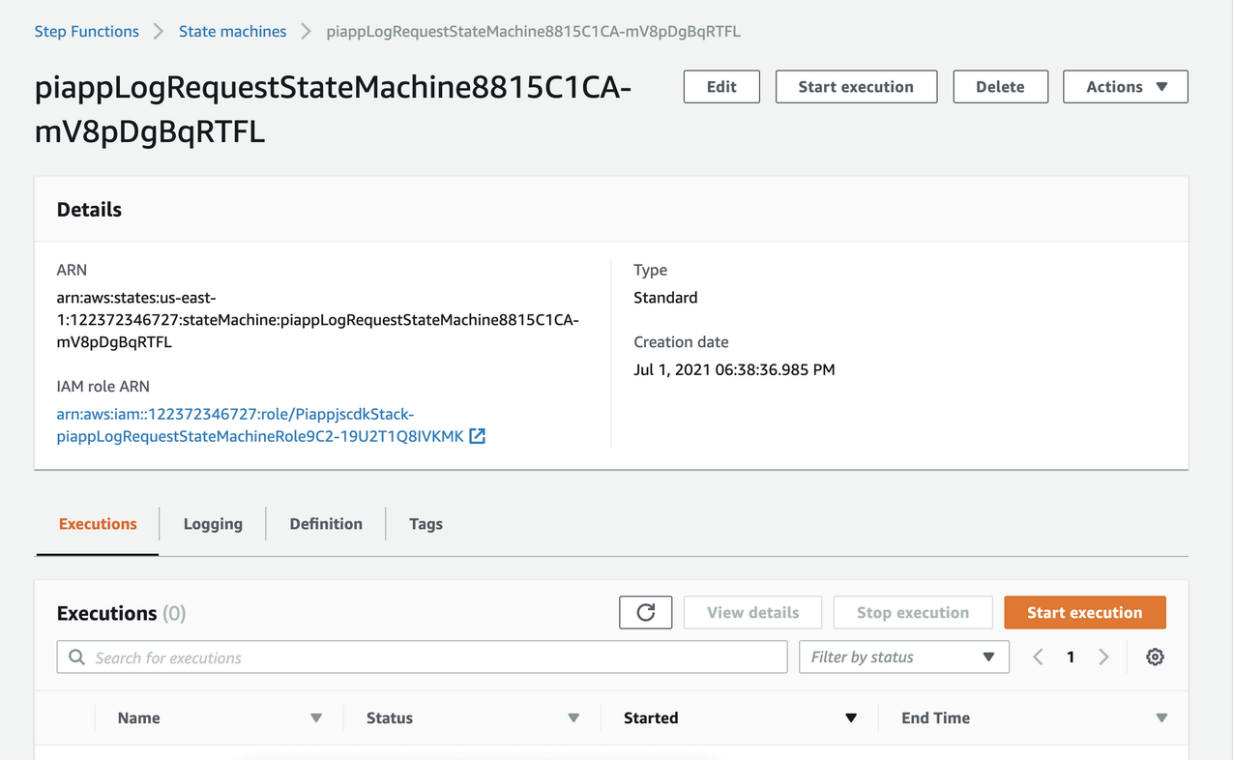
Step 2 - Run AWS Stepfunction

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

Test Pull job function:



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



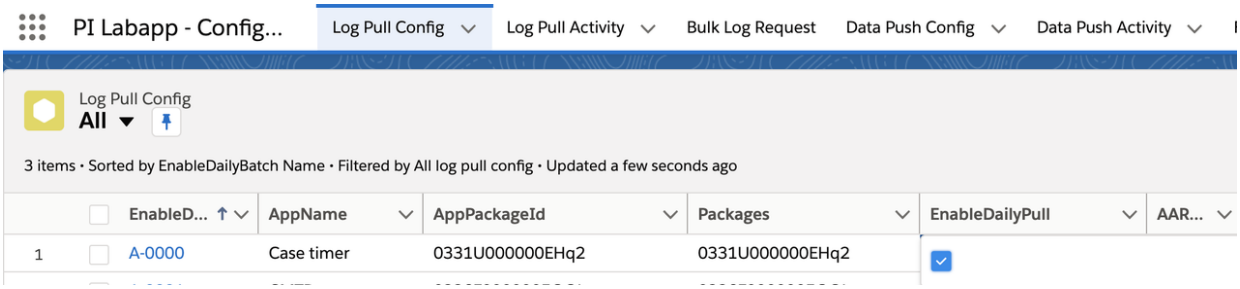
Enable automation

Load history data

In Salesforce, you can also create manual requests to pull logs for couple of days in past for an app as shown.

Go live

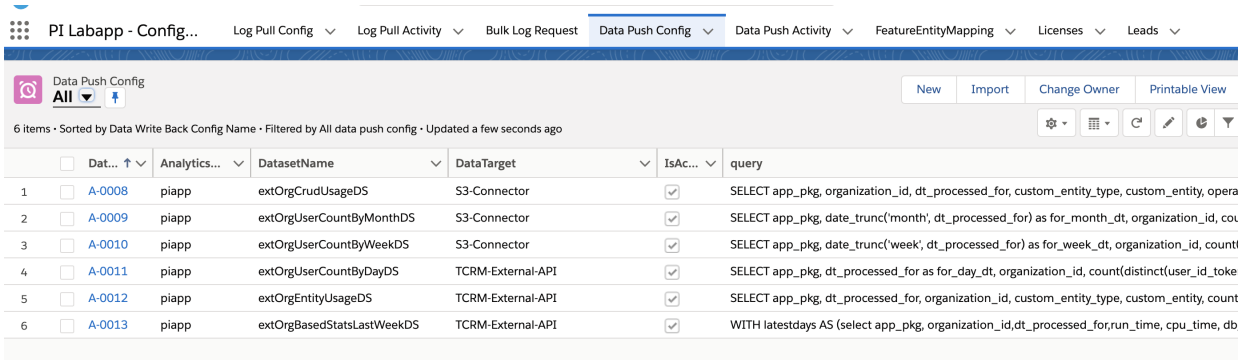
In Salesforce, go to the Log Pull Config tab and enable the daily pull:



In AWS, schedule the Step function to run daily (recommended) or hourly:

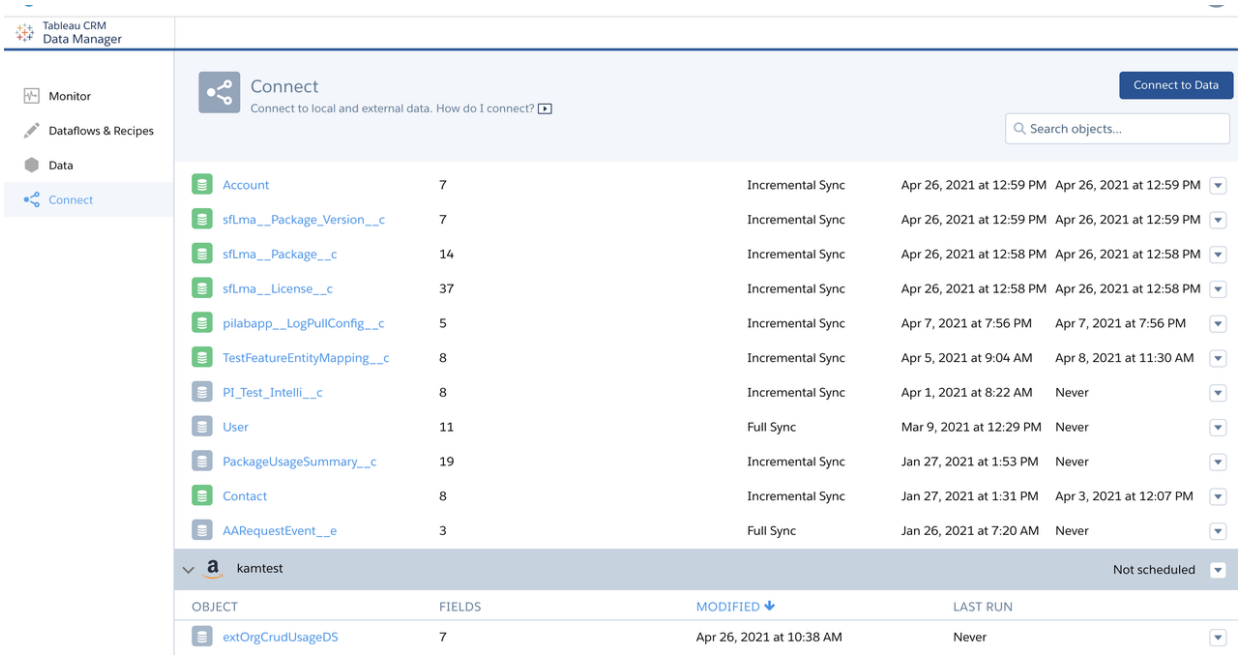
Business Intelligence

Following configuration shows 2 modes i.e. DataTarget is either S3-Connector or TCRM-External-API



Mode 1- Pull data using TCRM's S3 connector

Connect to summary S3 bucket and create data objects. Please refer to this document



Mode 2- Data pushed to TCRM datasets using External API

AWS "Summary Sync" job pushes summary data to TCRM datasets using External API. Please refer to this document