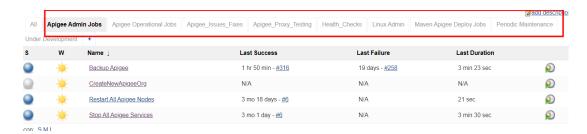
This article will introduce a set of the most common operational Apigee Activities with the help of Ansible scripts to manage & control multi Apigee on premise installations and Groovy codes & Apigee Management API's to dynamically load Apigee Organizations/ Environments



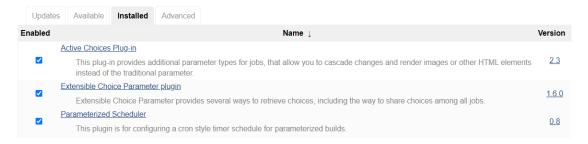
Prerequisite:

- 1- Jenkins Installation & Configuration
- 2- Ansible Installation & Configuration
- 3- Apigee Migration NodeJs Tool
- 4- Apigee Maven deploy plugin Installation of all prerequisite components are not in the scope of this document

Jenkins Configuration

Required Jenkins Plugins

This is used to build dynamic job parameters using Groovy scripts



Global Environment Variables

This is used to store the sysadmin credential to access Apigee Management API's



Ansible Configuration:

Jenkins Jobs Assume creation of Ansible hosts files for each infrastructure on premise Apigee installation



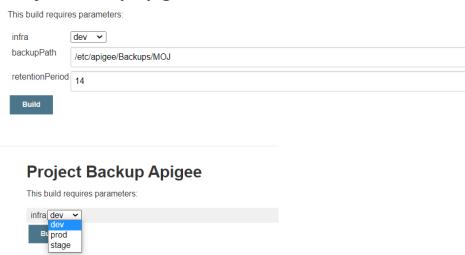
Example of Hosts File:

1. Admin Jobs

1.1. Apigee Backup

This Job is create a period backup for the entire Apigee Installation with a configurable retention period

Project Backup Apigee



1.2. Create New Organization

This Job Assume that there is a template configuration file for creating a new Organization after variable substitution from the user input form parameters

Project CreateNewApigeeOrg This build requires parameters: infra dev OrgName test01-conf OPERATIONS CREATE Create an Organization SETUP Te Organization if does not exist and setup by creating default Environment and Virtual hosts DELETE

1.3. Create New Product

This Job is to create a new Apigee Product (currently with a template configuration – for example: Quota is 10 tpm) and a configured Single Proxy as a product resource



1.4. Restart Apigee Nodes

Project Restart All Apigee Nodes



This simple job to restart All Apigee Nodes taking into consideration the proper sequence to shutdown and restart different Apigee components

2. Operational Jobs

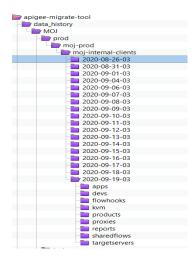
2.1. Export Organization - Using Apigee Import/Export NodeJs Tool

Project Export Organization Environment



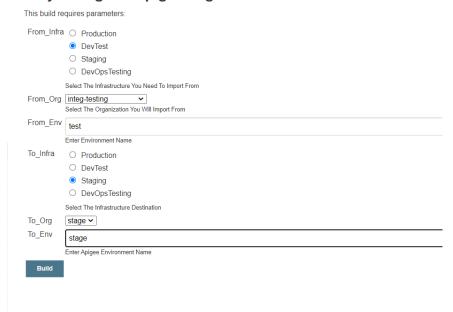
This Job Will Export All Apigee organization components – can be used as a backup

The resulted output:



2.2. Migrate Organization

Project Migrate Apigee Organization-Envivronment



This Job Will Migrate - from Apigee Organization to another Apigee organization

3. Maven Deploy Jobs

These jobs assume that Apigee Maven Deploy plugin is installed on the Jenkins Server

3.1. Deploy Proxy – Using Apigee Maven Deploy Plugin

Proxy bundle is available in a predefined folder structure

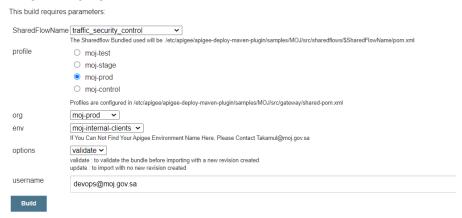
Project Deploy Proxy



3.2. Deploy Shared Flow

sharedflow bundle is available in a predefined folder structure

Project Deploy SharedFlow



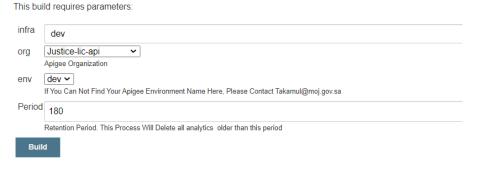
4. Periodic Maintenance Jobs

4.1. Purge Old Analytic Data

This job will purge analytic data for the given organization/environment and older that the required Period

This Job can be scheduled to run on a periodic basis

Project Purge_Old_Analytic_Data



4.2. Repair Cassandra

This build requires parameters:

Select Cassandra Node

This Job can be scheduled to run on a periodic basis

Project RepairCassandra

infra dev
Select Apigee Infrastructure
edge_ds edge_ds1

Build

5. Proxy Testing Jobs

- 5.1. Validate Proxy Code Using ApigeeLint Tool
- 5.2. Test Proxy Using Postman test Collection

6. Health Check Jobs

- 6.1. Period Check Apigee Servers Overall Status
- 6.2. Period Apigee Components Health Checks

7. Fast Fixes Jobs

7.1. Failure to trace proxy utilization session