

Edge API Lifecycle and Tools Maven Deploy Plugin

Prerequisites

- 1. Java
- 2. Maven
- 3. Use of Maven in CI tooling

Why Choose Maven Plugin?

More time to focus on what really matters by automating repetitive tasks

Innovation ready and extensible plugin-based platform

Promotes productivity. Promotes usage of CLI (Command-Line Interface). No need for IDEs

Easy to adopt, no need of CLI

Eclipse IDE Support through M2E, IntellijIDEA and WebStorm

Easy to configure and to track changes. All of its artifacts can live in version control as text files

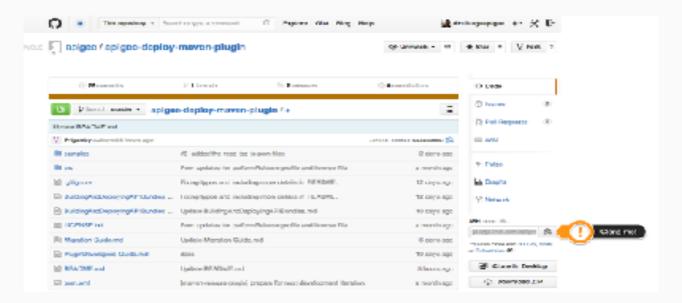
Multilanguage support

Tens of Thousands plugins ready in Maven Central

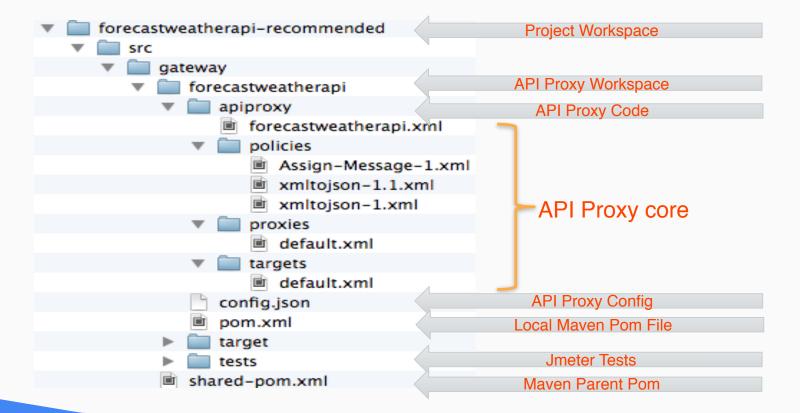
Backed up by the open source community

Download Maven Plugin Artifacts

- Get samples first by cloning this repo
- https://github.com/apigee/apigee-deploy-maven-plugin



Structure Your Offline Code



Maven Plugin Components – Parent POM

The maven parent pom file (shared-pom.xml) contains the maven configuration that can be used across all Apigee Edge API proxies.

Location: src/gateway

Contains common dependencies across all bundles

Enables common behavior through inheritance

```
<groupId>10.apigee.build=tools.enterprise@s/groupId>
   *artifactId*apigec-edge-maven-plugin*/ar
   -versional.@.8-c/versiona-

    executions

        sexecution>
            sid>configure=bundles/id>
            *phase*package*/phase*
                equal-configures/quals
            -/goals>
        <!d><\deploy=bundle</id><//id>
            sphases installs/phase
                -cqnal>deploy
   execut inner
c/plusine
```

Plugin coordinates 1.0.1

Phase

Goal

Phase

Goal

Maven Profiles Configuration – Parent POM

Also in the maven parent pom file (shared-pom.xml), you should include Apigee Edge organization and environment configurations as these are common to all APIs. These are defined using maven *profiles*.

```
cornfiles:
          intestavida
           *options*validate*/options* *!-- default options
           <apigee.profile>test</apigee.profile>-
           <spigee.ems-test-c/api gee.ems-</pre>
           *apigee.hosturl*https://api.enterprise.apigee.com*/apigee.hosturl*
           capique.apiversionsvls/apique.apiversions
           <apiqee.org>#(org)</apiqee.org>
           *apique.username*$fusername}*/apique.username*
           sapigee.passeords${passeord}s/apigee.passeords
           <apique.options>&{options}</apique.options>-
       c/properties:
       -cld>-prod-c/1d>-
       -properties-
           *apigue.profite*prod*/apigue.profite*
           <apigee.emv-prodc/apigee.env-</pre>
           <apigee.hosturl>https://api.enterprise.apigee.com</apigee.hosturl>
           *apigee.upiversion*vl*/apigee.upiversion*
           <spigee.org>$(org)</apigee.org>;
           <spigee.username>&{username}-c/aptgee.username>-
           *apique.passeord*$fpasseord?*/apique.passeord*
           sapigee.options>validates/apigee.options>
```

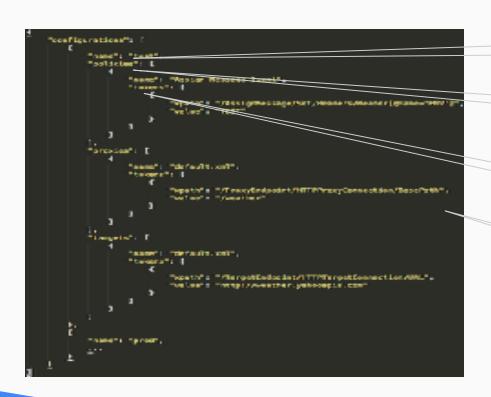
Specific Maven Config API Proxy Local POM

Local POM - pom.xml



Google Cloud

Applying API Proxy Configs w/ config.json



Top level array is apigee.profile from parent POM

Policies mapped in an array – each is an object

Tokens hold elements to apply configuration

Xpath used for search and replace

Executing Maven Deploy

Using the default apigee.option configuration "validate" creates new revision in Apigee Edge when executing the maven command to build/deploy the API proxy.

mvn install -Ptest -Dusername=\$ae username -Dpassword=\$ae password -Dorg=testmyapi

Getting Started – Apigee Maven Plugin

Other useful maven command options:

Skips tests - DskipTests=true

Overrides current revision -Doptions=validate,update

Deletes currently deployed bundle -Doptions=clean

Imports without deploying -Doptions=inactive

Packages bundle mvn package -Ptest

Runs JMeter Tests mvn jmeter:jmeter -Ptest -Dusername=\$ae_username -Dpassword=\$ae_password -Dorg=testmyapi DtestData=weather_test.csv -DthreadNum=5 -DrampUpPeriodSecs=5 -DloopCount=2

Proprietary + Confidential

Lab

Google Cloud

Disclaimer

- Open source project GitHub project
 https://github.com/apigee/apigee-deploy-maven-plugin
- Contribute and join the community
- Use community.apigee.com to ask questions
- File issues in GitHub to report bugs or enhancements

THANK YOU