

### TOC

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### LAB- Custom Policy

In this lab you will -

- a) Setup Custom Policy Project

#### Step 1 : Install JDK and Maven

- Check the maven documentation for JDK requirements.
- Install JDK
- Set environment variable **JAVA\_HOME** to the JDK Installation Directory
- For example : C:\Java8\Java\jdk1.8.0\_181
- Download Maven from [Maven – Download Apache Maven](#)
- Follow installation instructions [Maven – Installing Apache Maven](#)

- Set Environment variable **PATH** to point to bin directory of Maven installation
- For example : `C:\apache-maven\apache-maven-3.8.1\bin`
- From the command prompt, run `mvn -v`

```
C:\examples>mvn -v
Apache Maven 3.8.1 (05c21c65bdfed0f71a2f2ada8b84da59348c4c5d)
Maven home: C:\apache-maven\apache-maven-3.8.1\bin\..
Java version: 1.8.0_181, vendor: Oracle Corporation, runtime: C:\Java8\Java\jdk1.8.0_181\jre
Default locale: en_US, platform encoding: Cp1252
OS name: "windows 10", version: "10.0", arch: "amd64", family: "windows"
```

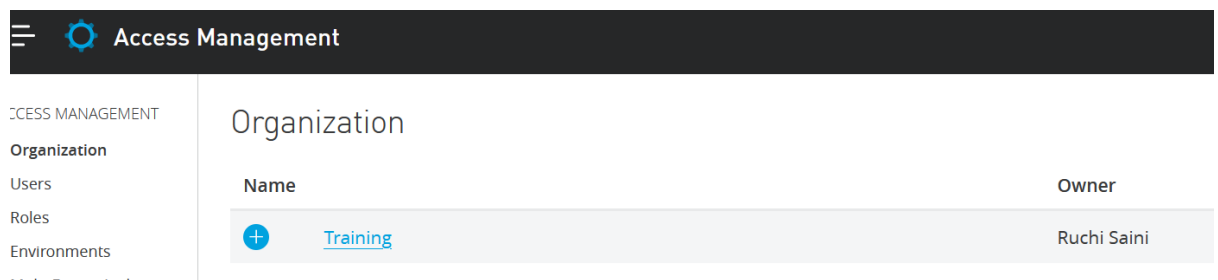
- 
- If maven is installed then you will see information related to Maven

*Congratulations, you have completed step 1.*

### Step 2 : Get Organization Id

- Login to Anypoint Platform and go to Access Management
- Check the **organization** tab of Access management and notice your organization

name



- Click on Organization Name (Training in my case) and copy organization id
- Copy it and Keep it handy for the next step

*Congratulations, you have completed step 2*

### Step 3: Setup Custom Policy Project

- Check the **conf** directory of Apache maven installation
- You will find the settings.xml file
- Copy this file to **.m2** directory
- Configure settings.xml file as shown below –

```
<?xml version="1.0" encoding="UTF-8" ?>
<profiles>
  <profile>
    <id>archetype-repository</id>
    <repositories>
      <repository>
        <id>archetype</id>
        <name>Mule Repository</name>
        <url>https://repository-master.mulesoft.org/nexus/content/repositories/public</url>
      </repository>
    </repositories>
  </profile>
</profiles>
```

- You may already find the starting and ending tag of **profiles**
- Configure the section of <profile>...</profile> within these tags as shown above
- Open command prompt and go to the directory of your choice
- Copy the command from snippets.txt attached in the resources section of lab
- Run this command from the command prompt =

```
C:\examples>mvn -Parchetype-repository archetype:generate -DarchetypeGroupId=org.mule.tools -DarchetypeArtifactId=api-g
ateway-custom-policy-archetype -DarchetypeVersion=1.2.0 -Dpackage=mule-policy
[INFO] Scanning for projects...
[INFO] -----< org.apache.maven:standalone-pom >-----
[INFO] Building Maven Stub Project (No POM) 1
[INFO] -----[ pom ]-----
[INFO]
[INFO] >>> maven-archetype-plugin:3.2.0:generate (default-cli) > generate-sources @ standalone-pom >>>
[INFO] <<< maven-archetype-plugin:3.2.0:generate (default-cli) < generate-sources @ standalone-pom <<<
[INFO]
[INFO] --- maven-archetype-plugin:3.2.0:generate (default-cli) @ standalone-pom ---
[INFO] Generating project in Interactive mode
[WARNING] Archetype not found in any catalog. Falling back to central repository.
[WARNING] Add a repository with id 'archetype' in your settings.xml if archetype's repository is elsewhere.
Define value for property 'groupId':
```

- You will be asked to specify group id
- Paste the **organization id** ( retrieved in previous step) here and click enter

- Then specify artifactId and version –

```
Define value for property 'artifactId': CustomMessageLoggingPolicy
Define value for property 'version' 1.0-SNAPSHOT: : 1.0.0
```

- You will be asked to specify Policy Description and Policy Name. Specify that

and in the end you need to enter **y** to confirm the information -

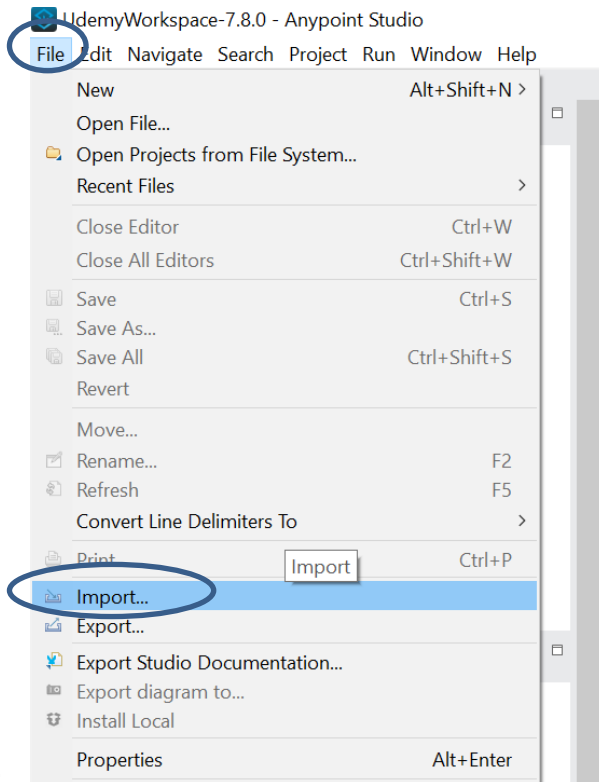
```
Define value for property 'policyDescription': Custom Message Logging
Define value for property 'policyName': CustomMessageLoggingPolicy
Confirm properties configuration:
groupId: 53ee9cb9-4443-4a04-b290-e4c04622548c
artifactId: CustomMessageLoggingPolicy
version: 1.0.0
package: mule-policy
encryptionSupported: false
exchangeRepositoryUrl: https://maven.anypoint.mulesoft.com/api/v1/organization
minMuleVersion: 4.1.1
policyDescription: Custom Message Logging
policyName: CustomMessageLoggingPolicy
Y: : y
```

- This will create the project. Notice the project folder in your directory.

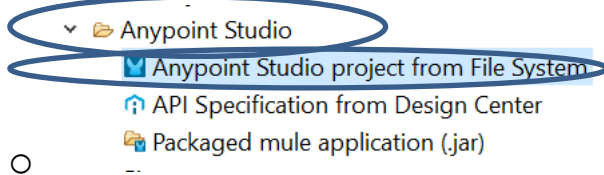
**Congratulations, you have completed step 3**

### Step 4: Import Project into Anypoint Studio

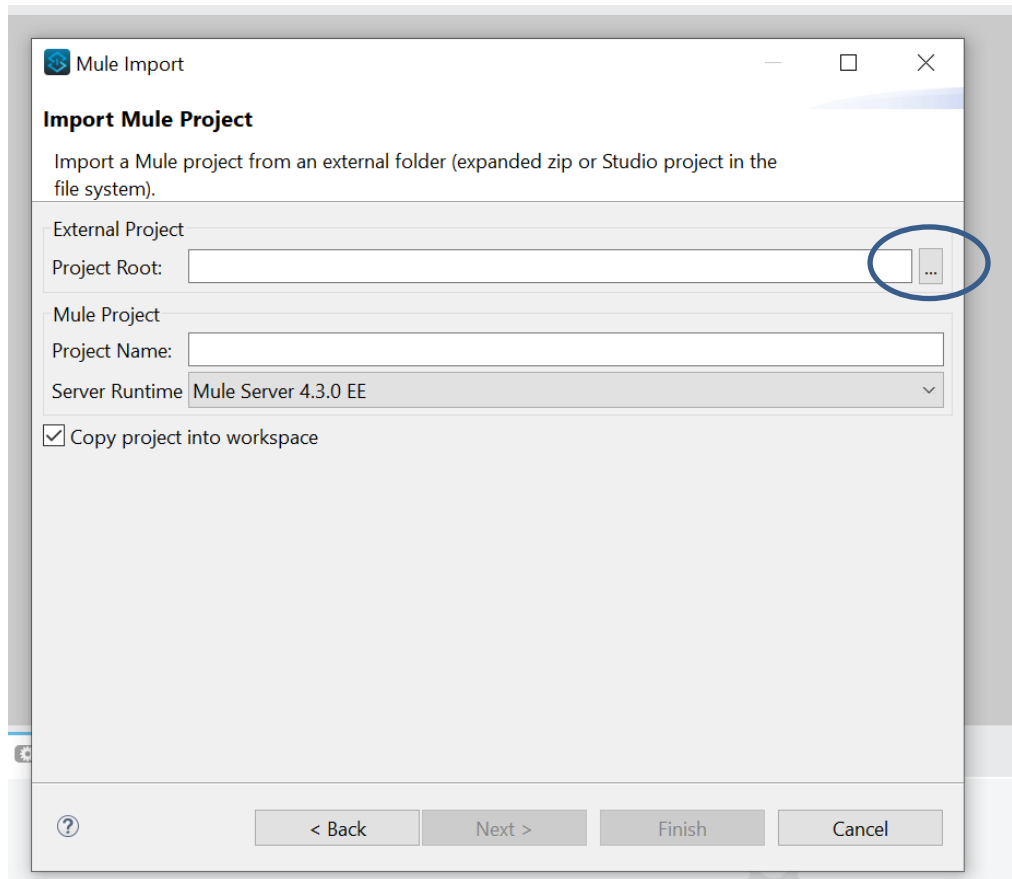
- Open Anypoint Studio
- Click on File -> Import



- Select **Anypoint Studio** -> **Anypoint Studio Project from File System**



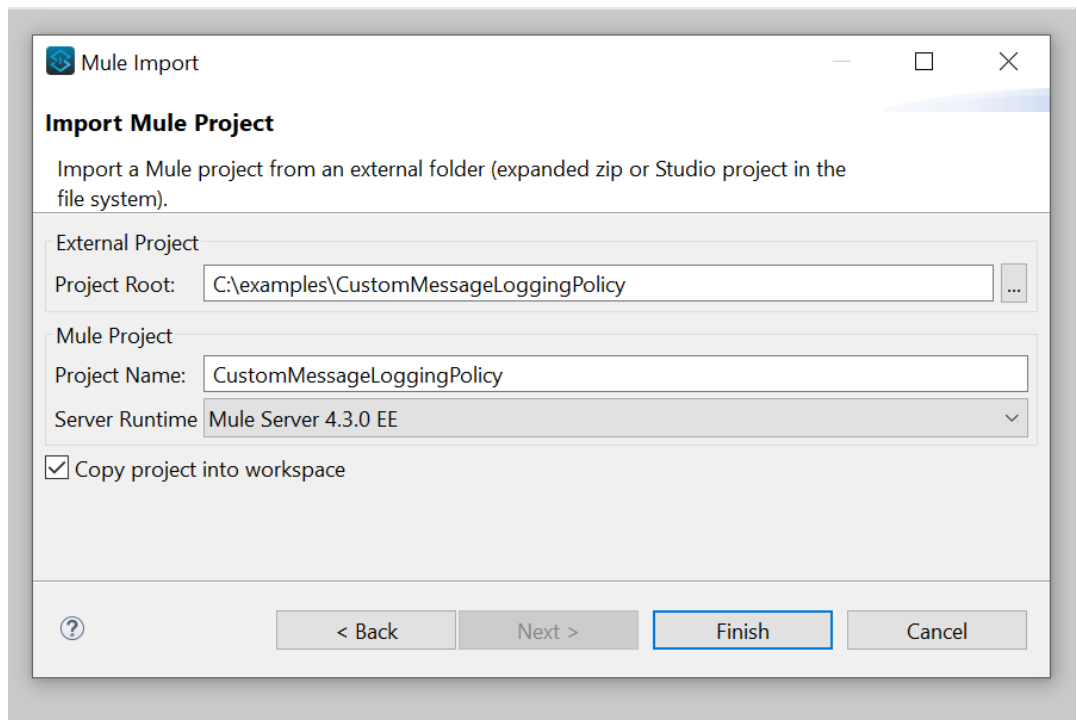
- You will see the following dialogue box –



○

○ Click on the three dots for Project Root and select the project

- The dialogue box will now look like following –



○

○ Click on Finish button

- Project will be imported into Anypoint Studio—

CustomMessageLoggingPolicy

📁 src/main/mule (Flows)

📄 template.xml

📁 src/main/java

📁 src/main/resources

📁 src/test/java

📁 src/test/resources

📁 src/test/munit

📁 JRE System Library [org.mule.tooling.jdk.win32

📁 Mule Server 4.3.0 EE

📁 src

📁 target

📄 CustomMessageLoggingPolicy.yaml

○ 📄 mule-artifact.json

*Congratulations, you have completed step 4*

*Congratulations!! You have completed this exercise.*