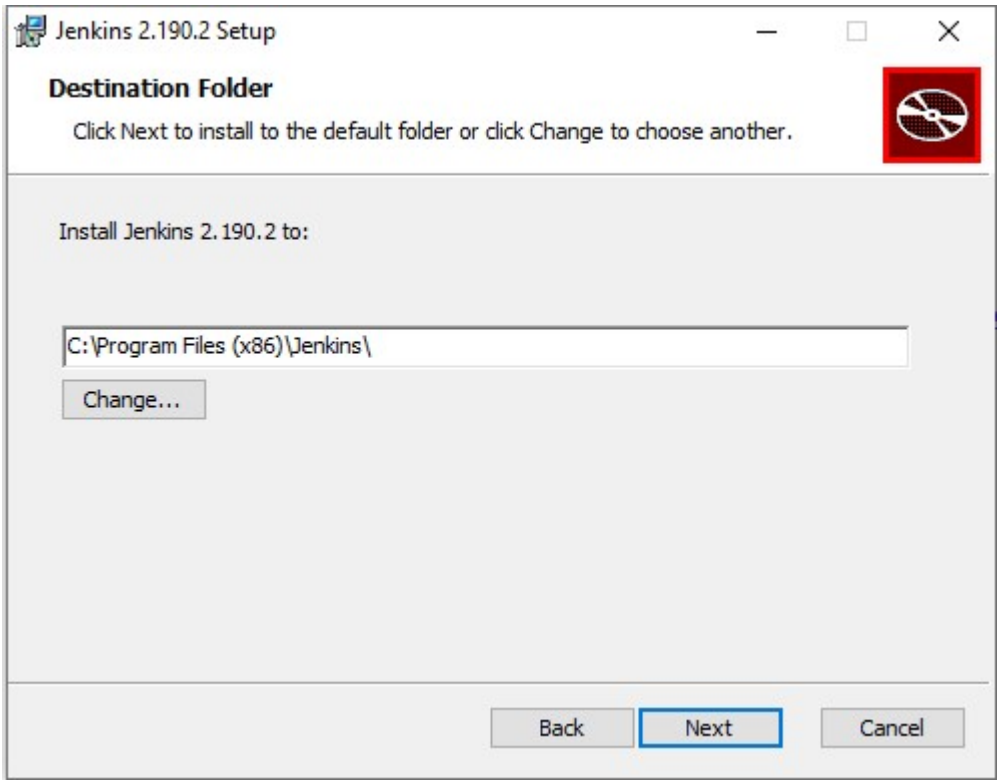
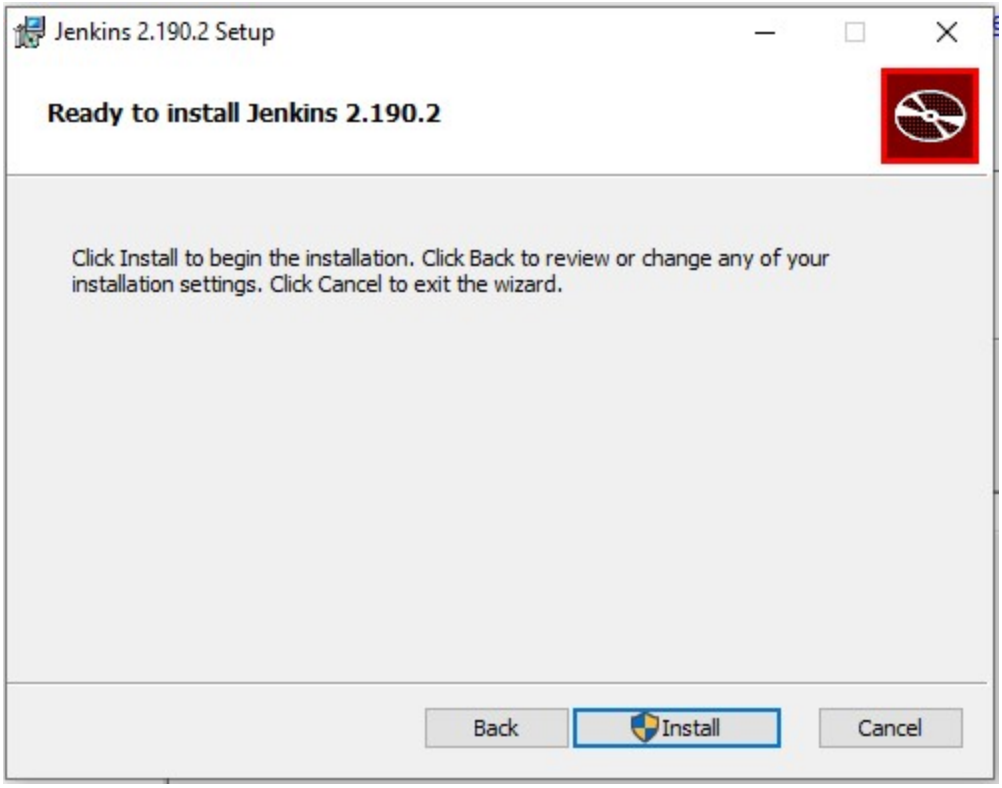
Kick Start Your Test Automation Suite in Jenkins – By Kushan Amarasiri

- Go to Jenkins Site and Download the Setup
  https://jenkins.io/download/thank-you-downloading-windows-installer-stable/

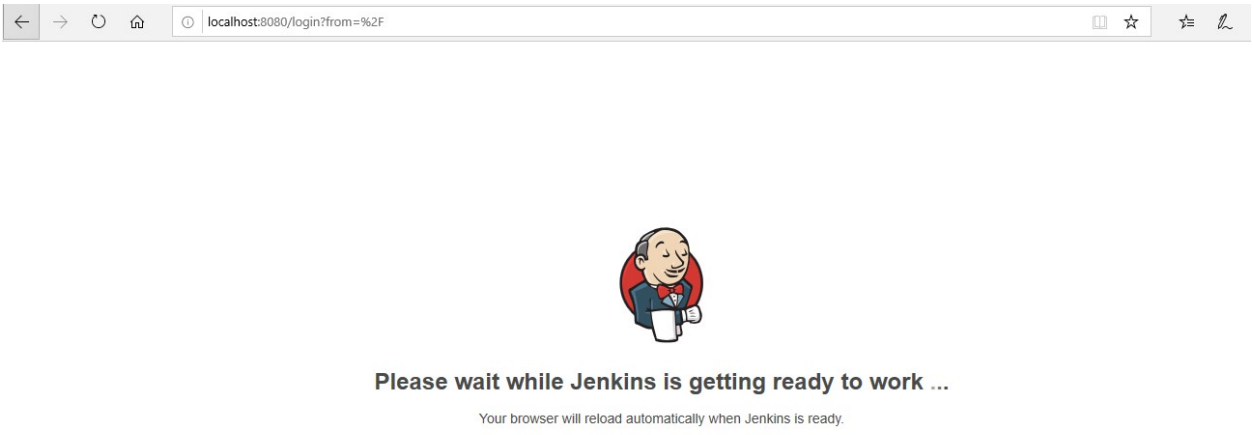
- Run the installer
- Provide the setup location



- Click Install



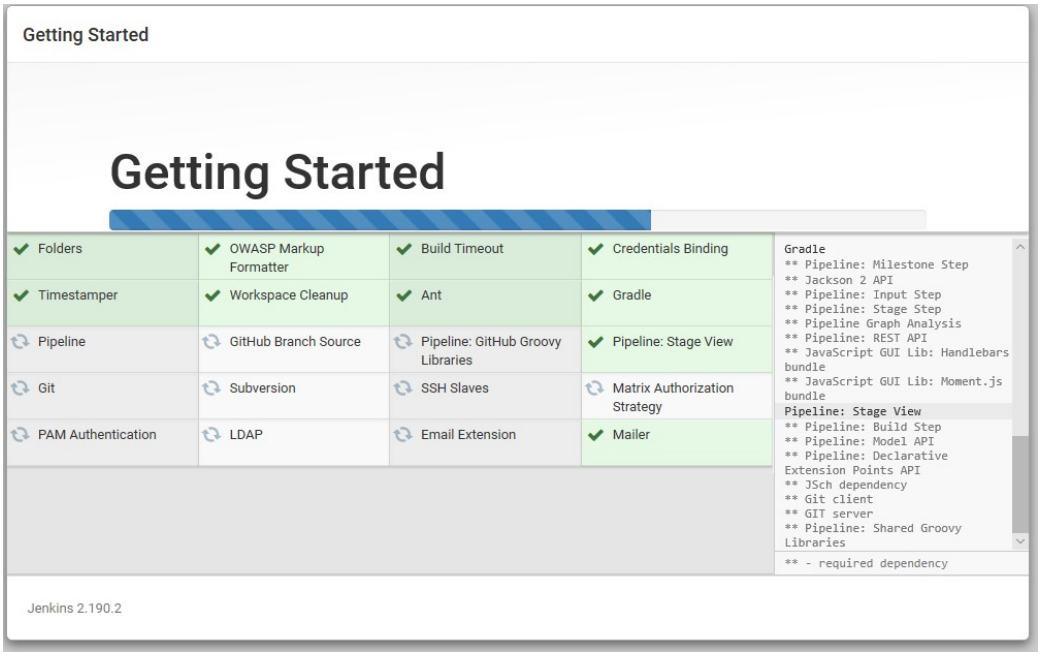
- Once installed Jenkins configuration will start on your default browser



- To unlock Jenkins find the default password stored in the given location and copy paste it to the input.

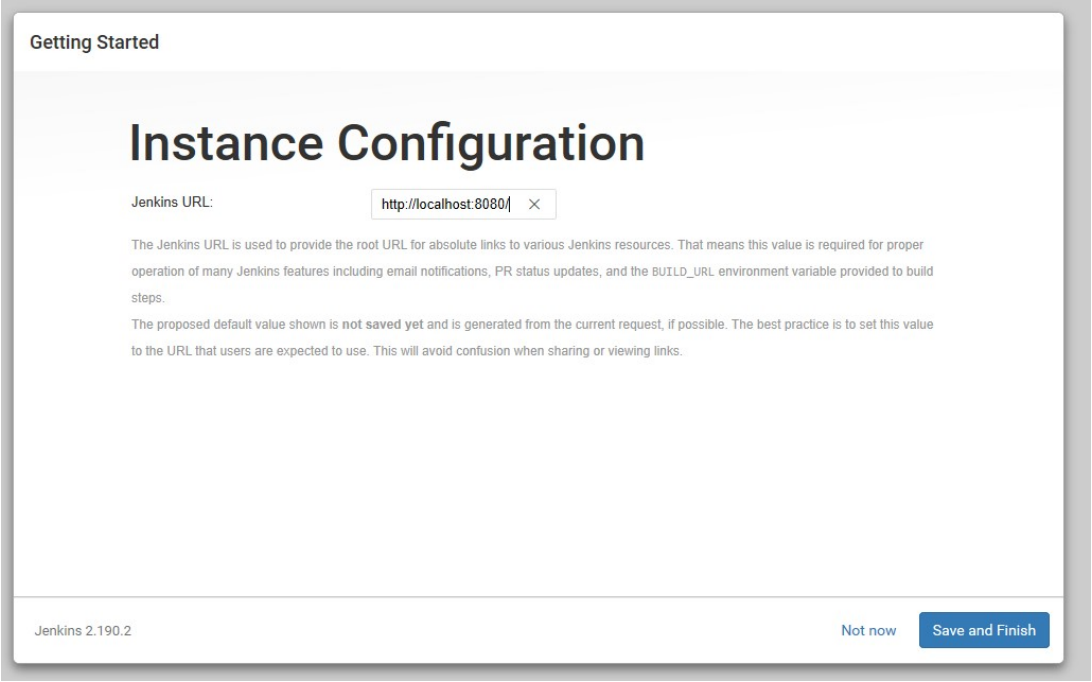
- Click Install Suggested Plugging

- Allow the default pluggings to download

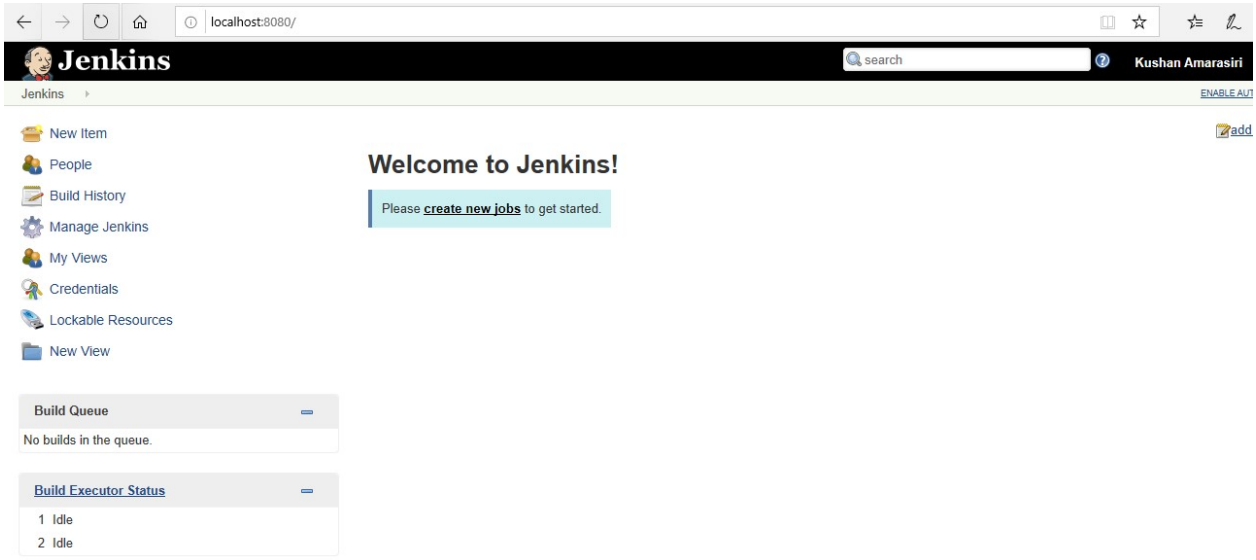


- Create the first admin user. Provide the necessary credentials

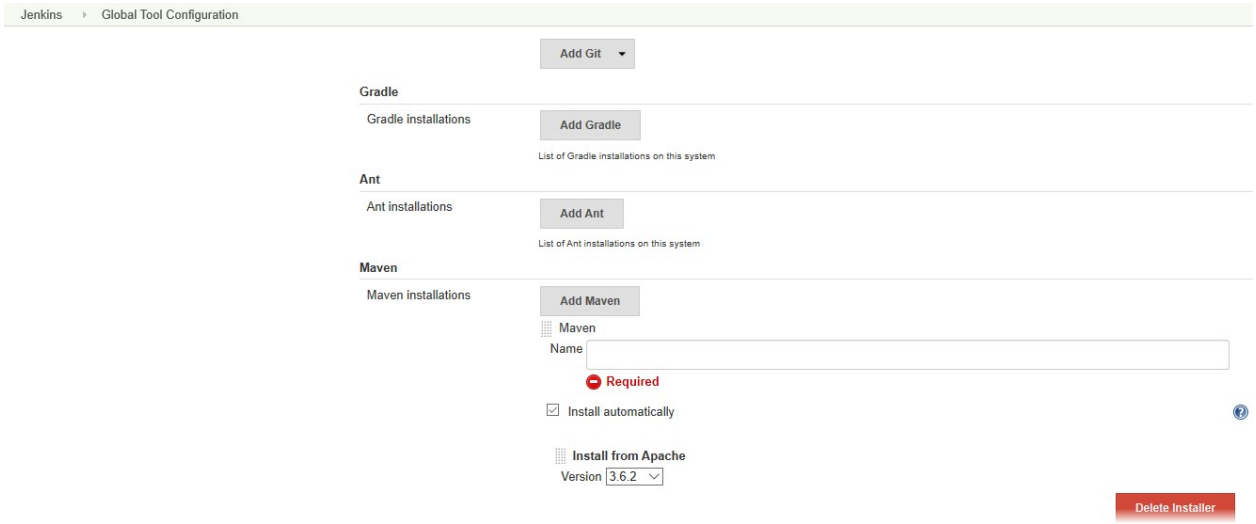
- Keep the default URL for Jenkins to use.



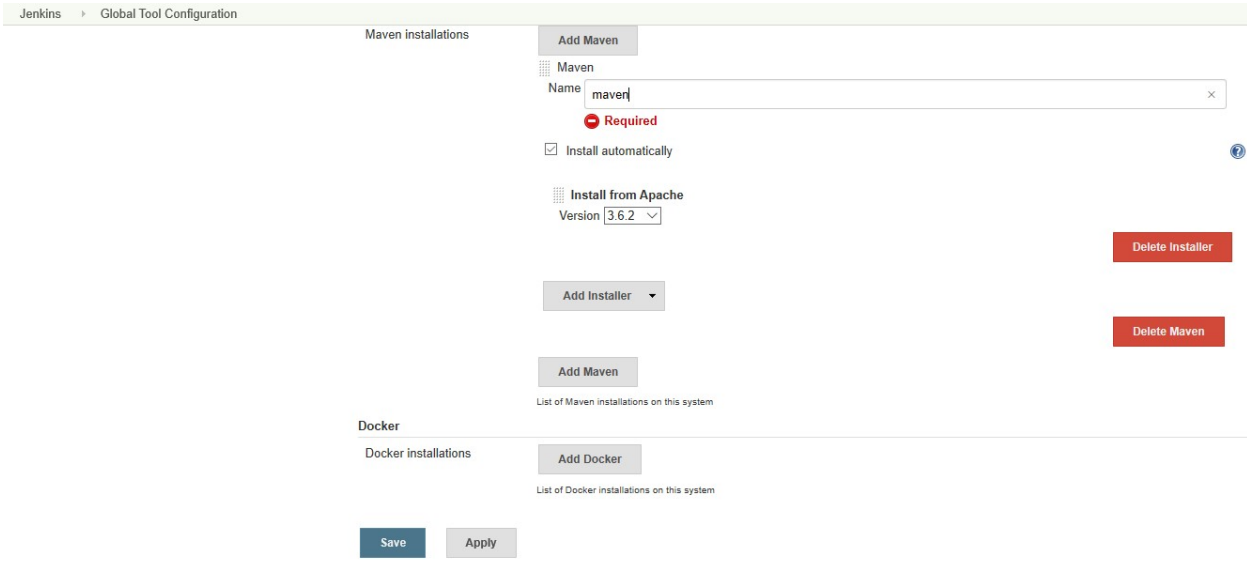
- Click Save and Finish and Jenkins will start right away



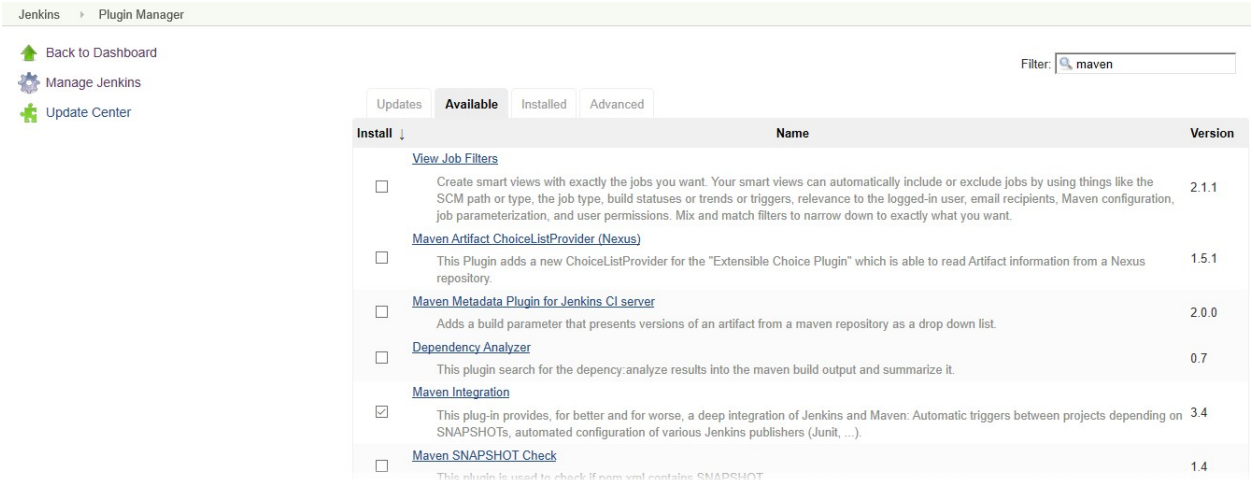
- Go to Manage Jenkins -> Global Tool Configuration (http://localhost:8080/configureTools/) to install maven



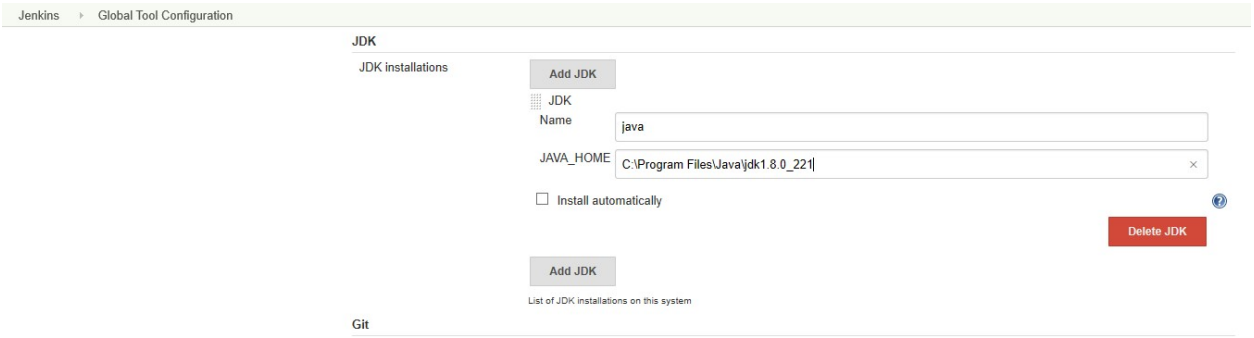
- Provide name as maven, Select install from Apache and version 3.6.2.



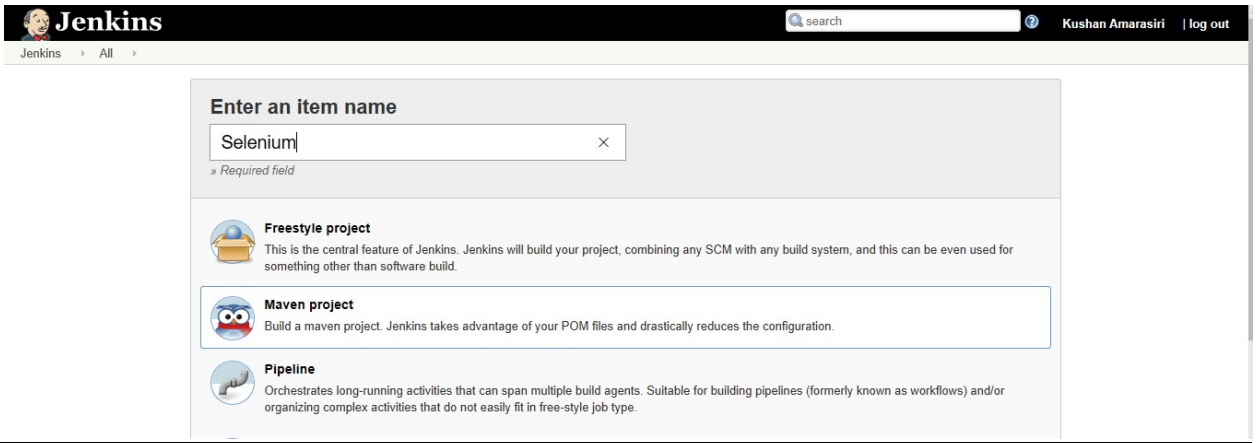
- Click Apply
- Next go to Jenkins Plugin Manager (http://localhost:8080/pluginManager/available)
- Search with the word maven and select the maven integration plugin and install it without restart



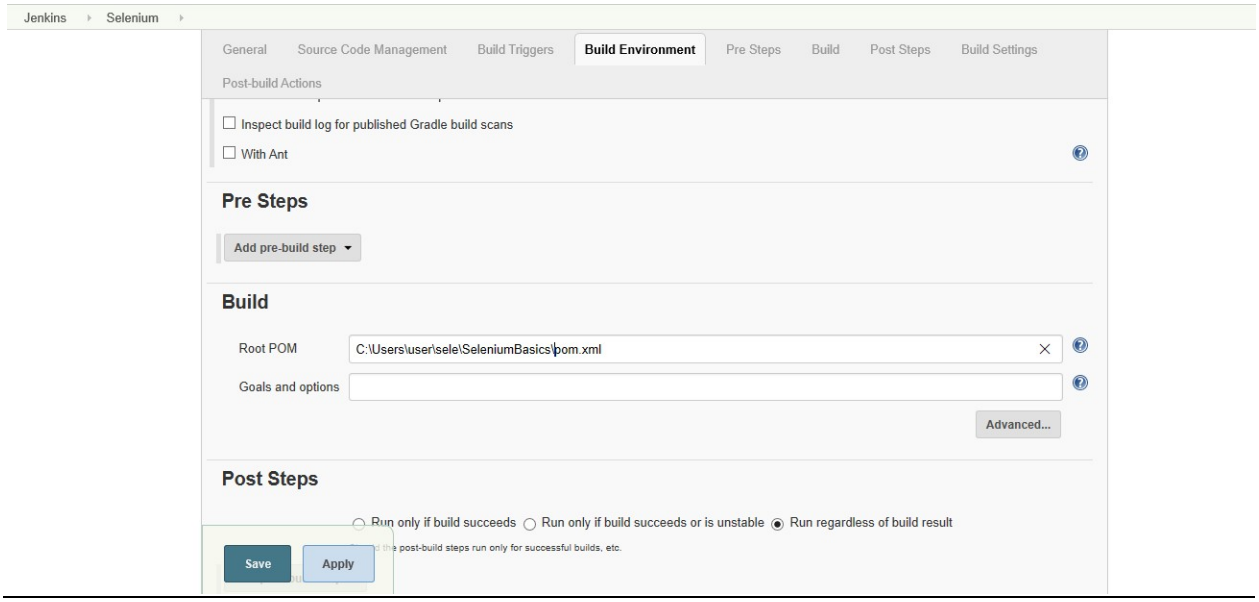
- Go to Global tool configuration and install Java. Remove install automatically and add the JAVA_HOME path. Click Apply.



- Go back to the Jenkins dashboard and Select new Item
- Select Maven project and provide a name for the project.



- Navigate to the created project and provide the location of your pom.xml file. Give goals and options as **clean test** and Click Apply



At the test suite side please add the following

- Create a testing.xml file and add the test classes that you are going to execute

Example –

```
<?xml version="1.0" encoding="UTF-8"?>
<!DOCTYPE suite SYSTEM "http://testng.org/testng-1.0.dtd" >
<suite name="example suite 1" verbose="1" >
  <test name="Regression suite 1" >
    <classes>
      <class name="SelPackage.Selenium1"/>

    </classes>
 </test>
</suite>
```

Next add the testing dependency and the following plugging in POM.xml file.

TestNG Dependency-

```
<dependency>
      <groupId>org.testng</groupId>
      <artifactId>testng</artifactId>
      <version>6.9.8</version>
      <scope>test</scope>
    </dependency>
<dependency>
```

Plugging -

```
<build>
  <plugins>
      <plugin>
        <groupId>org.apache.maven.plugins</groupId>
        <artifactId>maven-compiler-plugin</artifactId>
        <version>3.8.1</version>
        <configuration>
          <source>1.8</source>
          <target>1.8</target>
        </configuration>
      </plugin>
       <plugin>
        <groupId>org.apache.maven.plugins</groupId>
        <artifactId>maven-surefire-plugin</artifactId>
        <version>3.0.0-M3</version>
        <configuration>
          <suiteXmlFiles>
            <suiteXmlFile>testng.xml</suiteXmlFile>
          </suiteXmlFiles>
        </configuration>
      </plugin>
    </plugins>
    </build>
```