Building a Maven Project with Jenkins

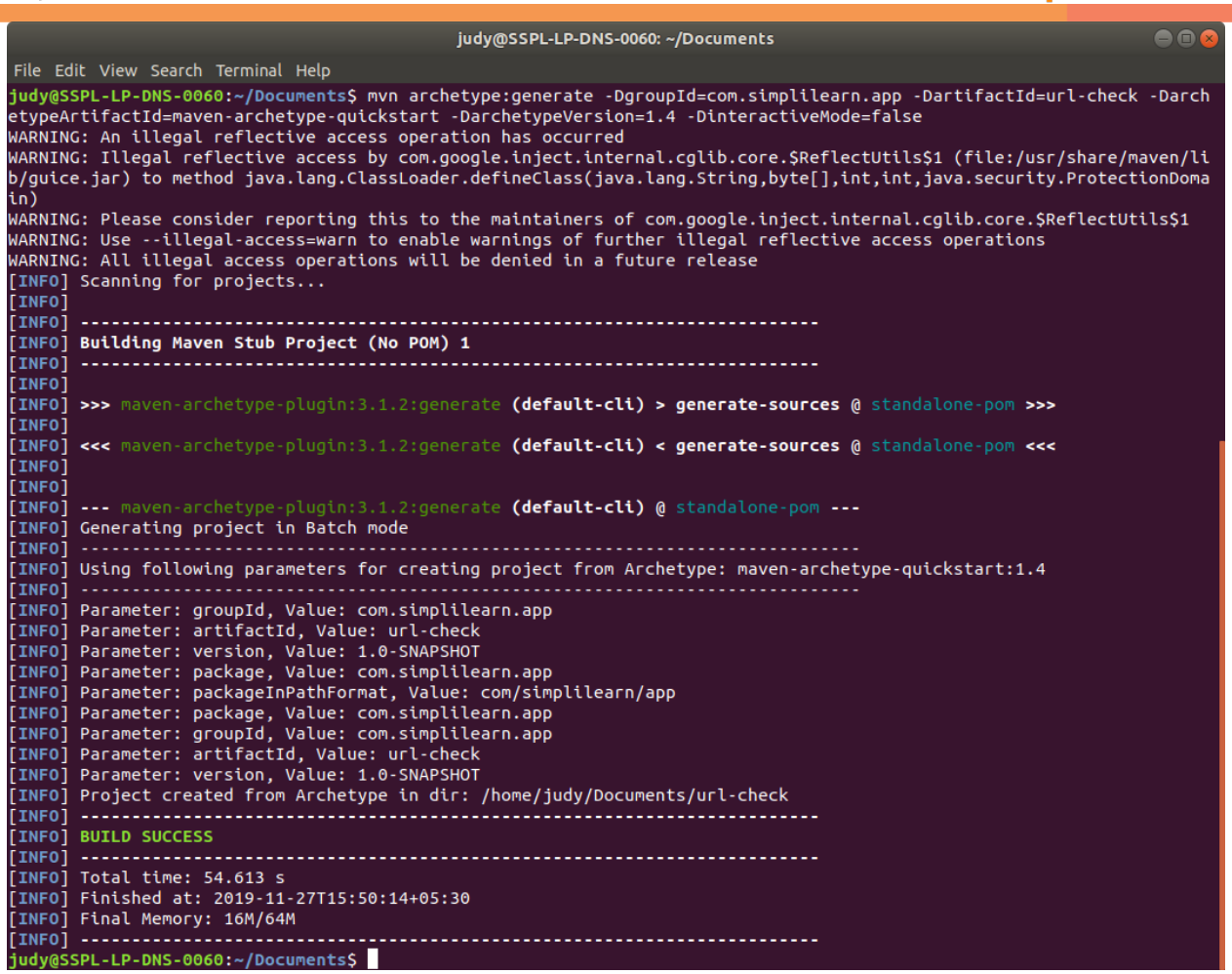
This section will guide you to:

- Install Maven and create a Maven project
- Create a Jenkins build job to build a Maven project
- Build a Maven project in Jenkins

Step 1:Install Maven and create a Maven project

- Open the terminal.
- If you do not have Maven installed already, run the command, ***sudo apt-get install maven***
- Run the command **mvn --version** to verify the installation.
- Run the following command to create a Maven project:

mvn archetype:generate -DgroupId=com.simplilearn.app
-DartifactId=url-check -DarchetypeArtifactId=maven-archetype-quickstart -DarchetypeVersion=1.4 -DinteractiveMode=false



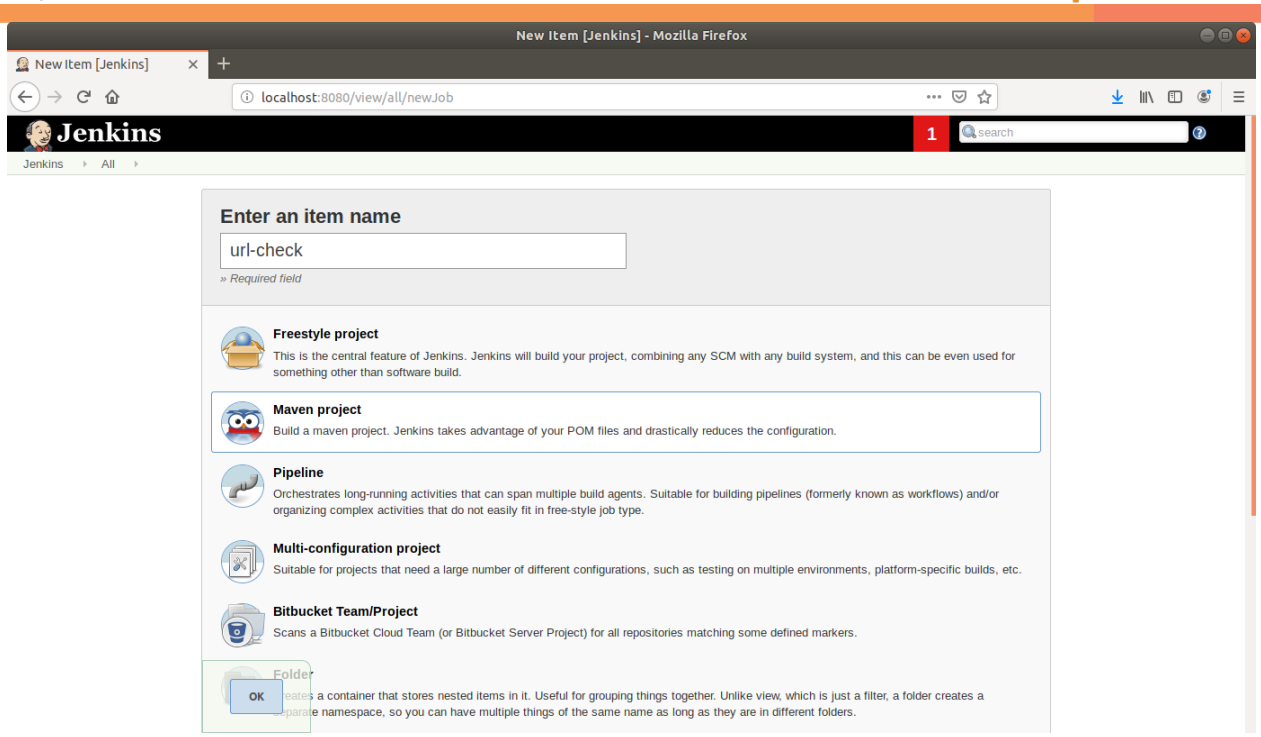
- Once the command is executed, run **cd url-check**
- Inside the project directory, run **ls** and find the *pom.xml* file.
- Run **cd src/main/java/com/simplilearn/app**
- Open App.java in a text editor. Example: nano App.java
- Replace the contents with the below code and save it:

```
package com.simplilearn.app;

import java.io.IOException;
import java.net.HttpURLConnection;
import java.net.URL;

public class App{

    public static String checkResponse(String url) throws IOException{
```

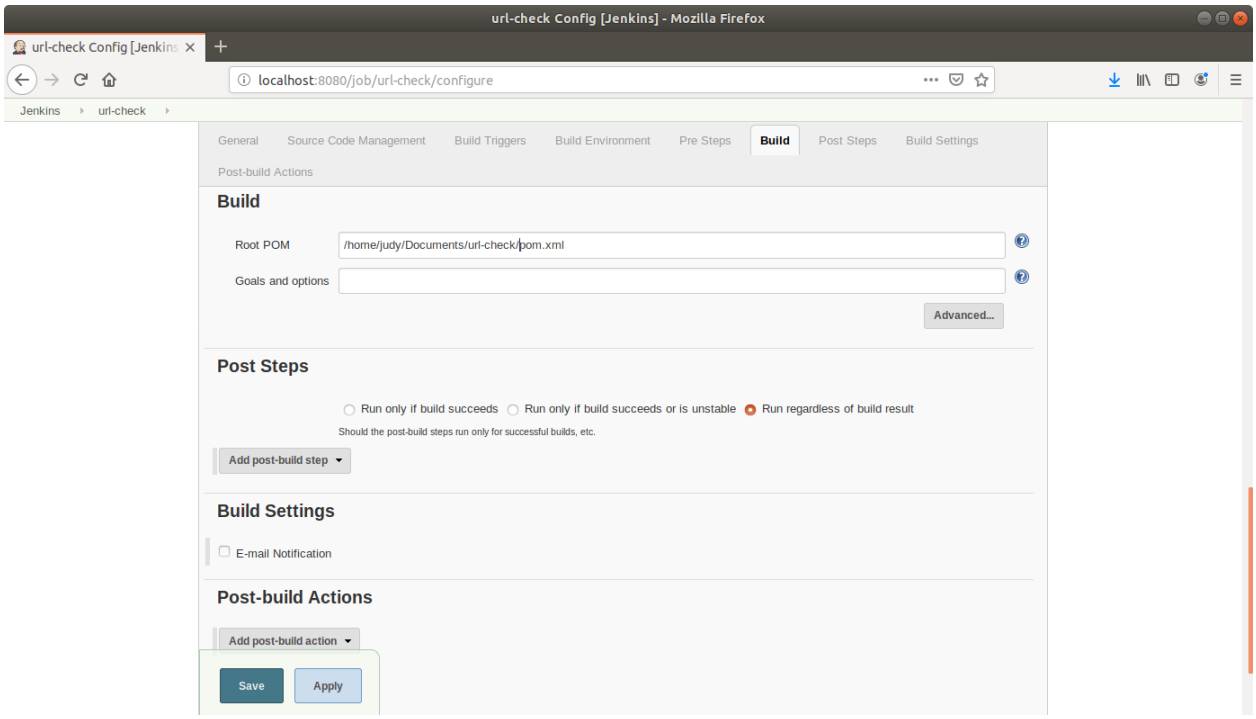
```
    HttpURLConnection connection = (HttpURLConnection) new
URL(url).openConnection();

    connection.setRequestMethod("HEAD");
    int responseCode = connection.getResponseCode();
    String response = "Success";
    if (responseCode != 200) {
    response = "Failed";
    }
    return response;
    }

    public static void main(String[] args) throws IOException{

    System.out.println(checkResponse("https:/"+"/samples.openweathermap.org/data/2
.5/weather?q=London,uk&appid=b6907d289e10d714a6e88b30761fae22"));
    }

}
```

Step 2: Create a Jenkins build job to build a Maven project

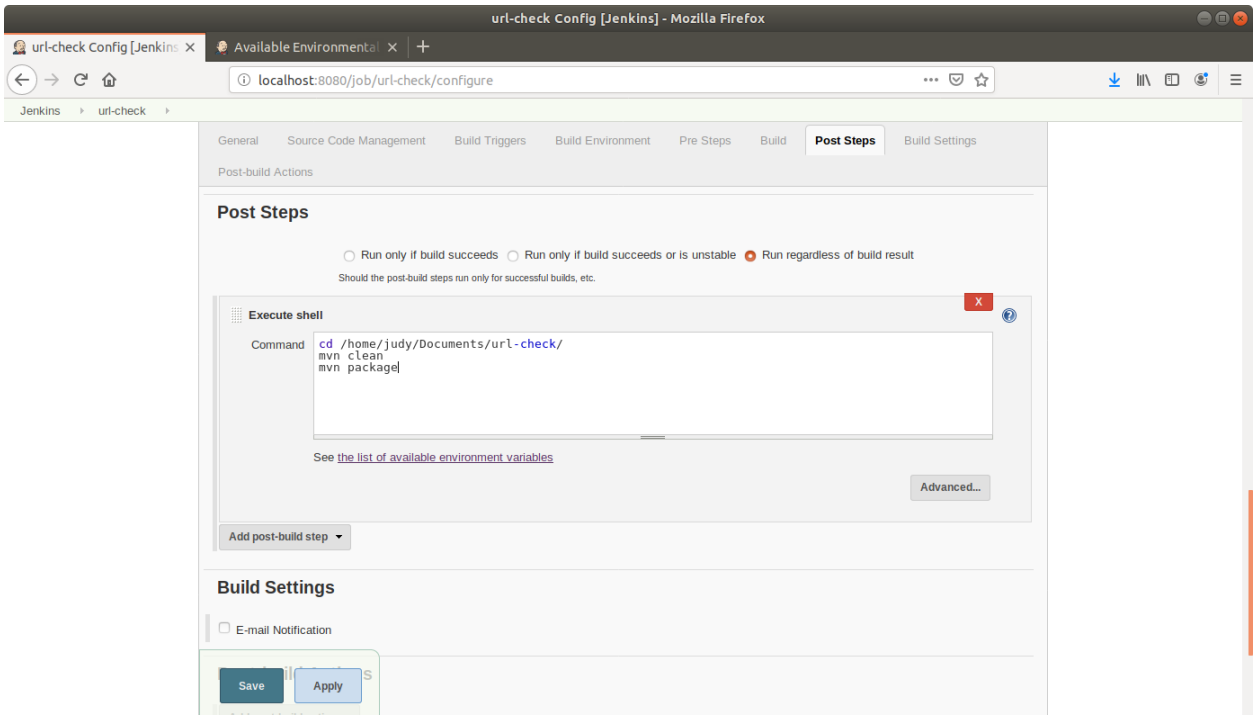
- Click on *New Item* in the Jenkins dashboard.
- Enter a name for your Maven project.
- Select *Maven Project* as the build job type.



- Click *OK*.
- Keep the defaults and scroll down to the *Build* section.
- Enter the path to the pom.xml.



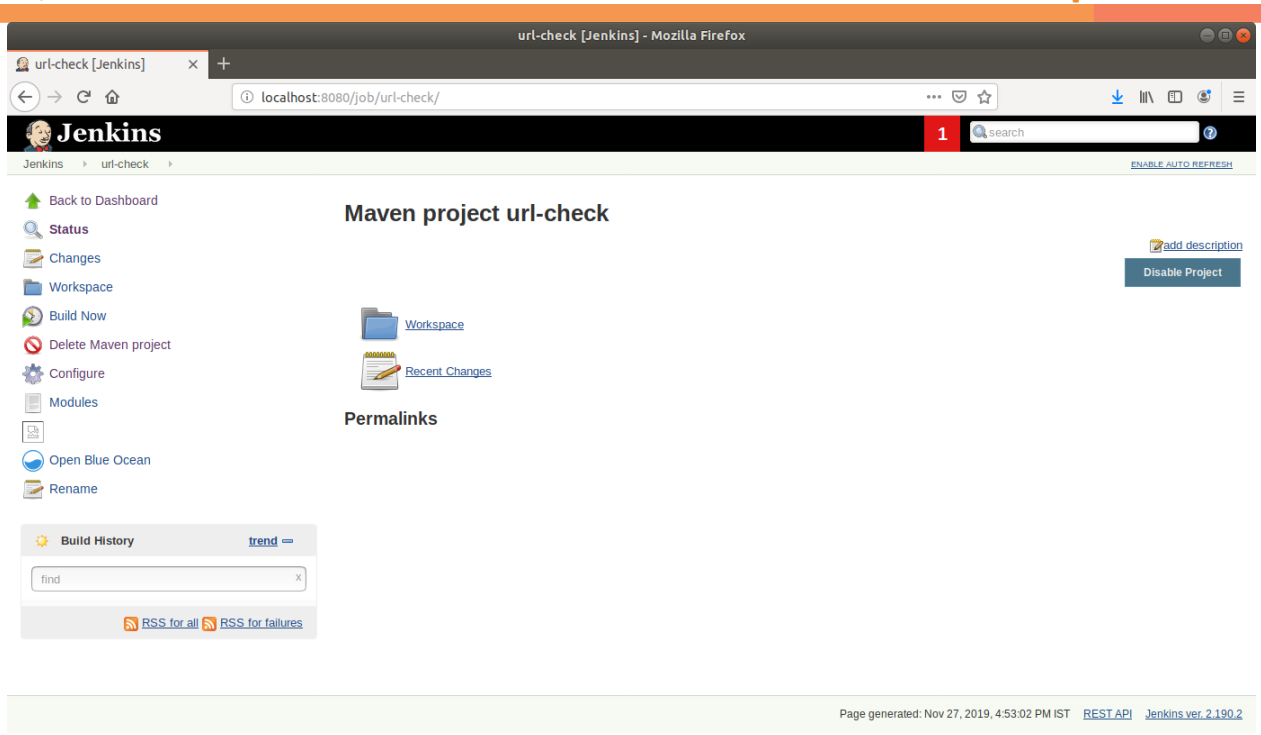
- Scroll down to the *Post-build Steps* section.
- Click on *Add post-build step* and choose *Execute shell* from the drop down menu.



- Enter the commands to navigate to app directory and build the package as shown above.
- Click *Save*.

Step 2.4.3: Building a Maven project in Jenkins

- Click on the project name in the Jenkins dashboard.
- Click *Build Now* in the project window. Jenkins will now build your project.



- Click on the *Build History* to view the build results.
- Click on the *Console Output* to view the build logs.