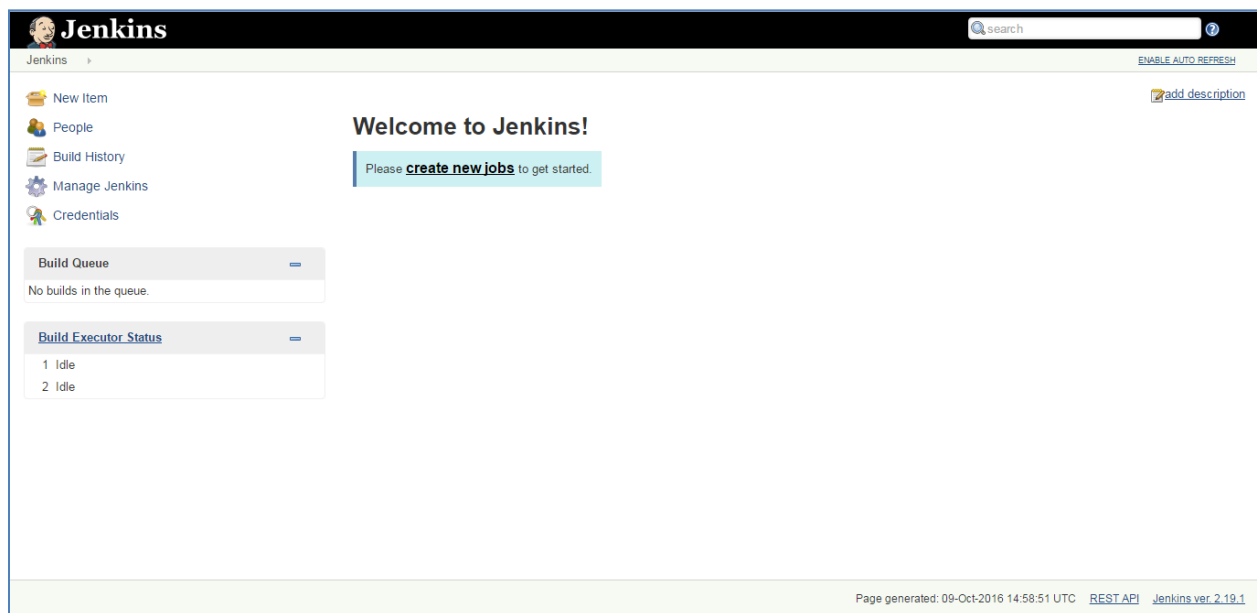# Jenkins Demo

1. Access Jenkins

Step 1: Bring up your vagrant VM and login. Check "1_setup_instructions" document

Step 2: on your host machine (windows) open chrome and type in the below url. Jenkins is running on port 8085.

```
http://192.168.33.10:8085
```

You should see the below

2. Global Tool Configuration

This is to let Jenkins know where java, maven, git etc are

Click on Manage Jenkins

Click on Global Tool Configurations

Step 3: JDK settings

```
Click on "Add JDK"
Uncheck Install automatically
Enter Name: java7
JAVA_HOME: /usr/lib/jvm/java-7-openjdk-i386
```


Step 4: Scroll down and Click on Add Maven

```
Click on "Add Maven"
Uncheck Install automatically
Enter Name: maven
MAVEN_HOME: /usr/share/maven
```

Step 5: Click on Save. This will take you back to Jenkins dashboard

3. Create a Jenkins Build Job

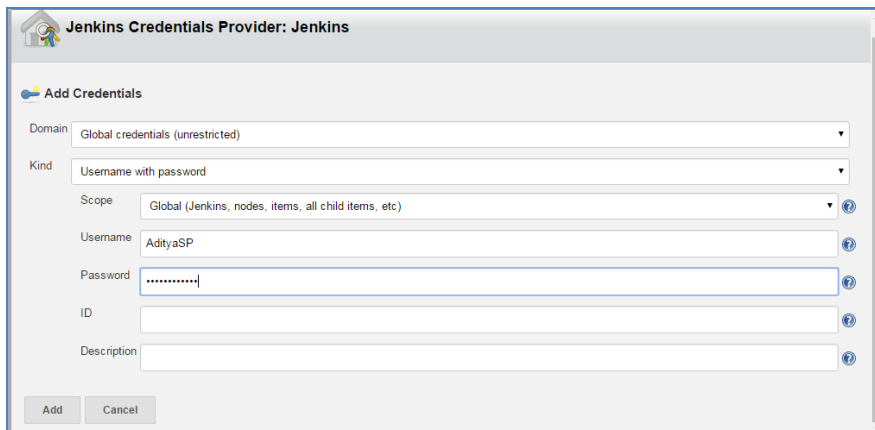**Step 6:** Click on create new jobs

```
Click on "create new jobs"
Item Name : devopsdemo

Select Freestyle project

Click on OK
```
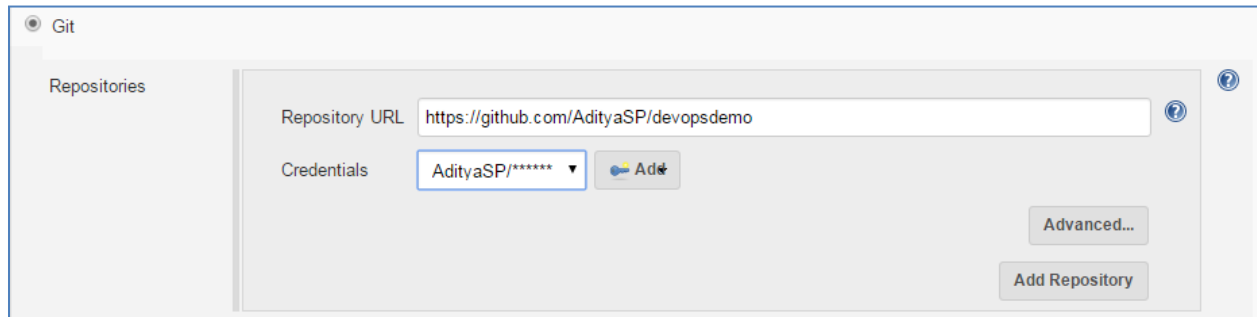
Step 7: Source Code Management

```
Select radio button git
Repository URL : https://github.com/<yourgitusername>/devopsdemo
Click on Add for credentials
```


Step 8: In the pop up that comes upon clicking of Add->Jenkins in the above step enter your git hub credentials for Username and Password and click on Add
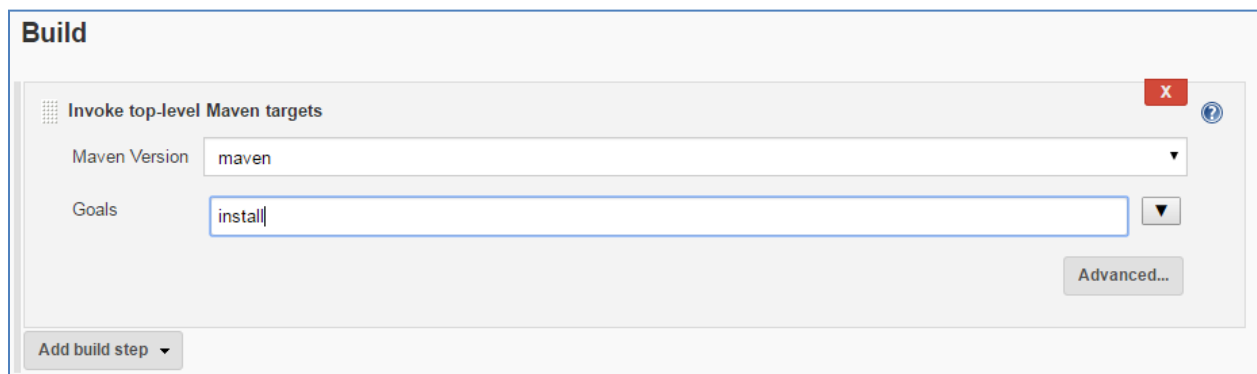
Step 9: Select the newly added credentials

Step 10: Scroll down and click on Add build Step and select "Invoke top level maven targets". Enter Choose "maven" – This actually points to the maven that was previously set up during Jenkins global tool setup. Enter "install" in the Goals

Step 11: Click on Save. This will take you to the project devopsdemo dashboard

4. Kicking off a build

Step 12: Click on Build Now to start a build.

This step will now download the code from devopsdemo and run maven install on it. This step will take a few minutes to complete. When its done you should see a blue icon in the build history which indicates success
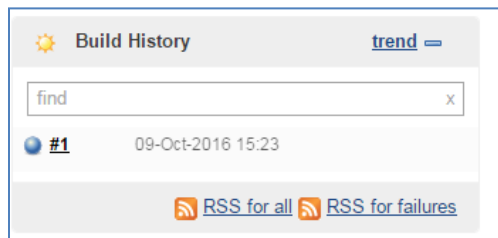
Step 13: Click on Workspace and browse the folder structure. You should be able to spot the folders we looked at during out Maven demo. For eg. Target, surefire-reports, maven-devops-demo-1.0.1-SNAPSHOT.jar

Step 14: Go to homepage of Jenkins and check the build dashboard. You can trigger as many builds that you want.

Congrats you have now successfully implemented a CI system!