

Installation:

Git:

```
sudo apt-get install git
git init
git clone https://github.com/venessa-roshni/Assignment.git
```

Maven:

```
sudo apt-get install maven
```

Java:

```
sudo add-apt-repository ppa:webupd8team/java
sudo apt-get update
sudo apt-get install oracle-java7-installer
```

Jenkins:

```
wget -q -O - https://pkg.jenkins.io/debian/jenkins-ci.org.key | sudo apt-key add -
sudo sh -c 'echo deb http://pkg.jenkins.io/debian-stable binary/ >
/etc/apt/sources.list.d/jenkins.list'
sudo apt-get update
sudo apt-get install jenkins
```

MySQL:

```
sudo apt-get install mysql-server
```

Username: root

Password: root

Tomcat:

```
sudo apt-get install tomcat7
```

/var/lib/tomcat7/conf/server.xml (changed port since jenkins runs on 8080)

In the tomcat-users.xml add the following line

```
<user username="deployer" password="deployer" roles="manager-script" />
```

This allows jenkins to deploy the war in tomcat.

Steps to pull the code from git and build and deploy automatically using Jenkins:

To clone repository:

```
git clone https://github.com/venessa-roshni/simple-restlet.git
```

To connect to database and create new database and tables:

```
mysql -u root -p < create.sql
```

Connecting to Jenkins:

<http://52.66.124.172:8080>

Username:venessa

Password: venessa

To create a new job: Jenkins configurations

1)To checkout code from git

- Source code management :
 - Select git
 - Enter Repository url

2) To maven build

- Build : Invoke top-level maven targets
 - Goals: clean install

3) To deploy on tomcat

- Post build actions:
 - Deploy war/ear to container
 - War files:**/target/*.war
 - Containers: tomcat 7.x
 - Manager : Enter username: deployer , Password: deployer
 - Tomcat url

Jenkins : port - 8080

Tomcat : port - 8083

Curl command to test API:

```
curl -i -v -X POST http://localhost:8083/simple-restlet/hello --header "Content-Type:application/json" -d {"greeting":"hello"}
```

Architecture:

