

3.2 Jenkins Set-up

This section will guide you to:

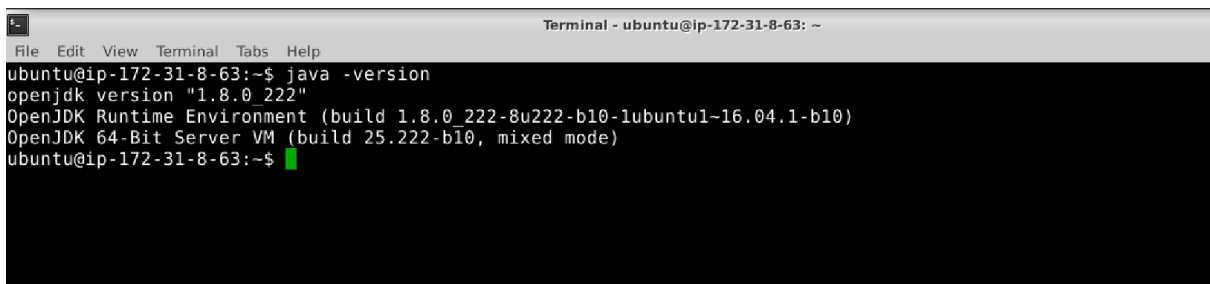
- Download and set up the Jenkins app

This lab has two sub-sections, namely:

- 3.2.1 Downloading the Java Runtime Environment
- 3.2.2 Downloading and installing the Jenkins app

Step 3.2.1: Downloading the Java Runtime Environment

- Open the terminal.
- Run ***sudo apt update*** to update the package lists.
- Run ***sudo apt install openjdk-8-jdk*** to install the Java Runtime Environment.
- Run ***java -version*** to verify the installation. It will print the JDK version as shown below:



```

Terminal - ubuntu@ip-172-31-8-63: ~
File Edit View Terminal Tabs Help
ubuntu@ip-172-31-8-63:~$ java -version
openjdk version "1.8.0_222"
OpenJDK Runtime Environment (build 1.8.0_222-8u222-b10-1ubuntu1~16.04.1-b10)
OpenJDK 64-Bit Server VM (build 25.222-b10, mixed mode)
ubuntu@ip-172-31-8-63:~$
  
```

Step 3.2.2: Downloading and installing the Jenkins app

- Open the terminal.
- Run ***wget -q -O - https://pkg.jenkins.io/debian/jenkins.io.key | sudo apt-key add -*** to install Jenkins.
- Run the command ***sudo sh -c 'echo deb http://pkg.jenkins.io/debian-stable binary/ > /etc/apt/sources.list.d/jenkins.list'***.
- Run ***sudo apt install jenkins*** to install Jenkins.
- Run ***systemctl status jenkins*** to check the status of the installation.

- Run ***sudo /etc/init.d/jenkins start*** to start Jenkins.
- Jenkins will now open up at port 8081 as shown below:

