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## Lab 2-1 - Install Jenkins

In this lab we will install jenkins, ready for configuration

## Install Java

1. Before we install Jenkins, lets pre-install Java so we don't have that issue

```
$ sudo apt install default-jre
```

Follow prompts to install java

2. we need to add the gcp keys for the repository so the system knows to trust the new repo

```
$ wget -q -0 - https://pkg.jenkins.io/debian-stable/jenkins.io.key | sudo
apt-key add -
OK
```

3. Add the repository to the system

```
$ sudo sh -c 'echo deb https://pkg.jenkins.io/debian-stable binary/ >
/etc/apt/sources.list.d/jenkins.list'
```

4. Install Jenkins

```
$ sudo apt update
$ sudo apt install jenkins
```

5. Check to make sure it's running

```
$ systemctl status jenkins

• jenkins.service - LSB: Start Jenkins at boot time
    Loaded: loaded (/etc/init.d/jenkins; generated)
    Active: active (exited) since Thu 2020-05-21 01:01:51 UTC; 29s ago
    Docs: man:systemd-sysv-generator(8)
    Tasks: 0 (limit: 8939)
    Memory: 0B
    CGroup: /system.slice/jenkins.service
```

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6. Add the jenkins user to the docker group and restart service

```
$ sudo usermod -aG docker jenkins
$ sudo systemctl restart jenkins
```

7. find the Initial admin password and copy it.

```
$ sudo cat /var/lib/jenkins/secrets/initialAdminPassword
```

8. Go to the following address and paste the initial admin password

```
http://{your vm ip address}:8080/
```

Then click 'continue'

- 9. Choose 'Install Selected Plugins' and wait for software to finish initialising
- 10. Fill out information to create first admin user, make sure to record admin username and password (these computers will be de-provisioned after the workshop, feel free to use something basic like admin:admin)
- 11. Accept the Jenkins URL. in a real installation this would have to be static, but we're only going to use this today.
- 12. Install additional pluguns
  - 1. Select 'Manage Jenkins from the side menu
  - 2. Select 'Manage Plugins' from the list
  - 3. Select the 'Available' tab
  - 4. Type 'docker' into the filter box
  - 5. select 'docker-build-step' and 'Docker' then click 'Download now and install after restart'
  - 6. You may need to manually refresh this page after a couple of minutes
- 13. Click on 'Back to Dashboard' from the left side menu
- 14. Add some credentials to the credential store
  - 1. Select 'Credentials' from the side menu
  - 2. Click on 'Global' beside 'Jenkins'
  - 3. Click on 'adding some credentials'
  - 4. For the first credential enter your tenable access key in the username field, your secret key in the password field, and 'tenableApiCredentials' in the ID field
  - 5. For the second credential enter 'dockerHubCredentials' in the ID field and your docker username and password from yesterday.

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## 15. Create a Docker build tool

- 1. Go back to the main screen by clicking Jenkins in the top left corner.
- 2. Select 'Manage Jenkins' from the side menu
- 3. Select 'Global Tool configuration' from the list
- 4. find 'Docker' towards the bottom of the page
- 5. add 'myDocker' in the name field
- 6. leave the 'Installation root' field empty to use the system path
- 7. Click 'Save' at the bottom of the page