Installing Jenkins

Prerequisites

For installing, we will require:

A machine with 256 MB of RAM, although more than 512MB is recommended and 10 GB of drive space (for Jenkins and our Docker image)

The following software installed:

- Java 8 or 11 (either a JRE or Java Development Kit (JDK) is fine)

- Docker

Download and run Jenkins

1. Download Jenkins.
   For Linux:

```
wget http://mirrors.jenkins.io/war-stable/latest/jenkins.war
```

2. Open up a terminal in the download directory.

3. Run this command.

```
java -jar jenkins.war --httpPort=8080
```

This command will download and run a jenkins in our machine. Many messages will be shown at the screen. Upon initialization of jenkins, the console will give us an admin password to start the initial setup for jenkins.
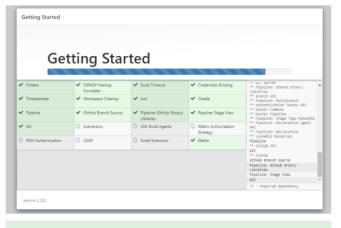

4. Browse to http://localhost:8080. For ec2 http://(your ec2 instance IPv4 Public IP):8080). We will see the screen below. Put the admin password in input on the screen and press continue.
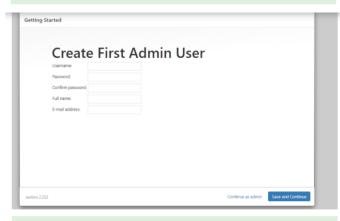

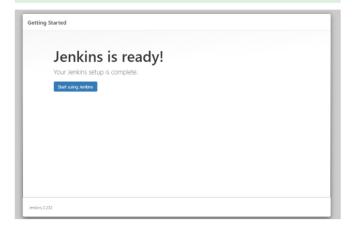In the next screen, click "Install suggested plugins".

Wait for the installations.

Create a user.

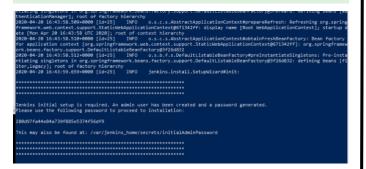We complete the installation, click on "start using Jenkins"

Installing Jenkins with Docker

Firstly we create a container in our machine. We need docker installed and running in our machines. Execute this command:

```
1 docker run -d -p 8080:8080 jenkins/jenkins
2
```

This command will download and run a jenkins in our machine. Many messages will be shown at the screen. Upon initialization of jenkins, the console will give us an admin password to start the initial setup for jenkins.

We can access our jenkins in http://localhost:8080/ (for ec2 instance IPv4 Public IP:8080). We will see the screen below. Put the admin password in input on the screen and press continue.

⚠️ **Note:**
- To access the admin password:
- If you run Jenkins inside docker as a detached container, you can use **docker logs < containerId >** commands to view the Jenkins logs.
- Or, execute the following commands:
  $ docker exec -it < containerId > bash
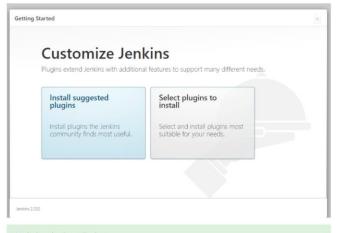 **$ cat /var/jenkins_home/secrets/initialAdminPassword**

In the next screen, click "Install suggested plugins".

Wait for the installations.

Create a user.

We complete the installation, click on "start using Jenkins"