

To Install and Configure Jenkins on Ubuntu 18.04

To install Jenkins following software packages are required

- 1) GIT (git-scm.com)
- 2) Notepad++ (<https://notepad-plus-plus.org/downloads/>)
- 3) Latest Java development kit (JDK)
- 4) Jenkins
- 5) Apache Maven (Optional)

Step 1-: Install GIT
Step 2 -: Install Notepad++
Step 3 -: Install Java
Step 4 -: Install Jenkins
Step 5 -: Install Maven

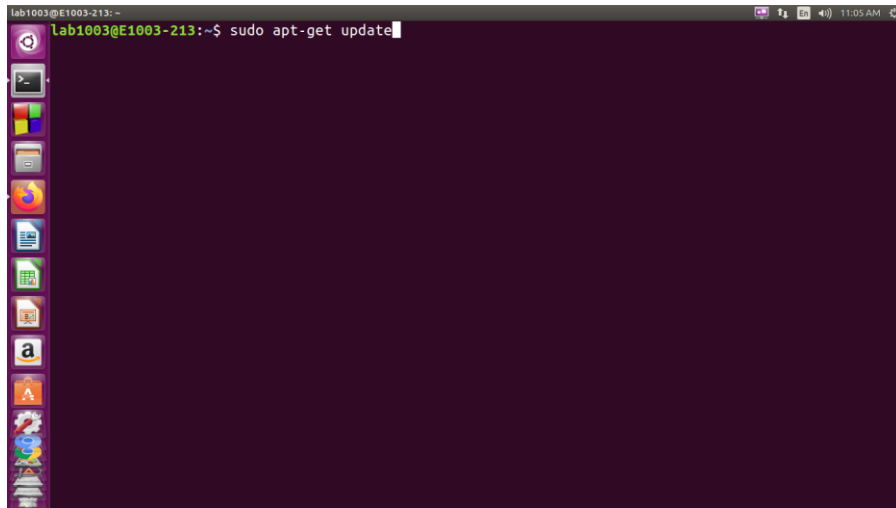


Jenkins is an open source automation tool written in Java with plugins built for Continuous Integration purpose. Jenkins is used to build and test your software projects continuously making it easier for developers to integrate changes to the project, and making it easier for users to obtain a fresh build. It also allows you to continuously deliver your software by integrating with a large number of testing and deployment technologies.

Installation Steps for Jenkins on Ubuntu 18.04

Step 1:- Update ubuntu repository

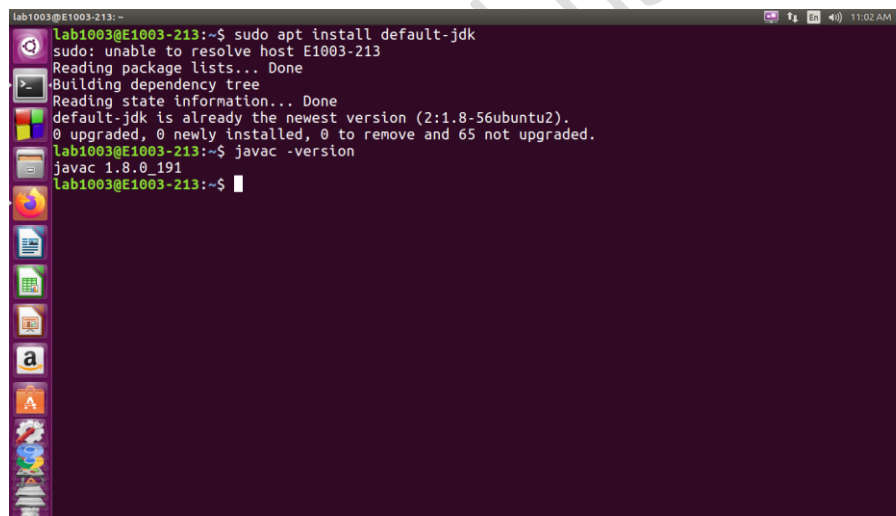
\$sudo apt get update



```
Lab1003@E1003-213:~$ sudo apt-get update
```

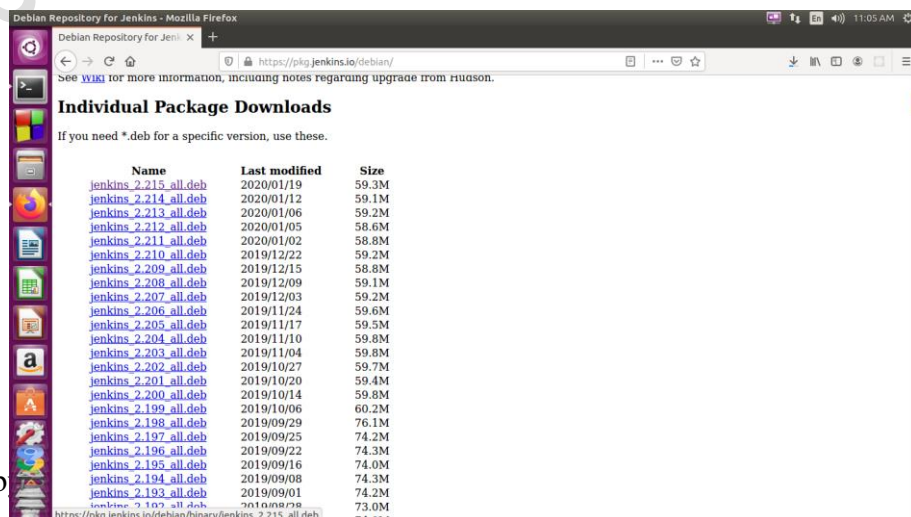
Step 2:- Install Java development kit

\$sudo apt install default-jdk



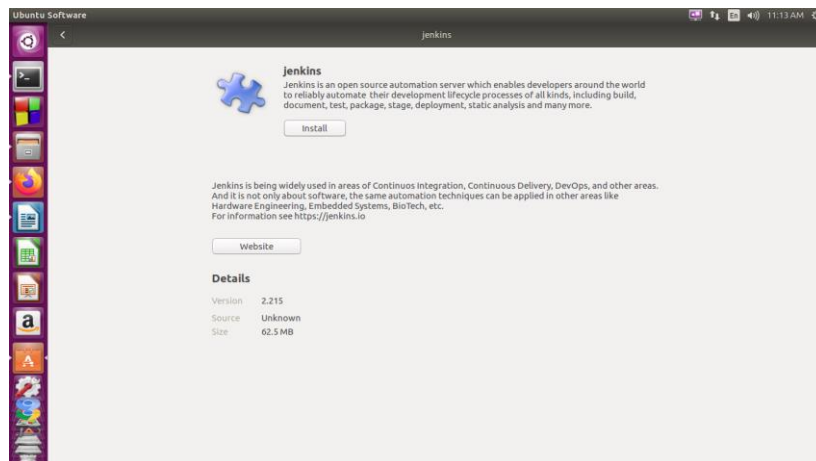
```
Lab1003@E1003-213:~$ sudo apt install default-jdk
sudo: unable to resolve host E1003-213
Reading package lists... Done
Building dependency tree
Reading state information... Done
default-jdk is already the newest version (2:1.8-56ubuntu2).
0 upgraded, 0 newly installed, 0 to remove and 65 not upgraded.
Lab1003@E1003-213:~$ javac -version
javac 1.8.0_191
Lab1003@E1003-213:~$
```

Step 3:- Download the latest jenkins .deb file from jenkins.io website by selecting ubuntu distribution.



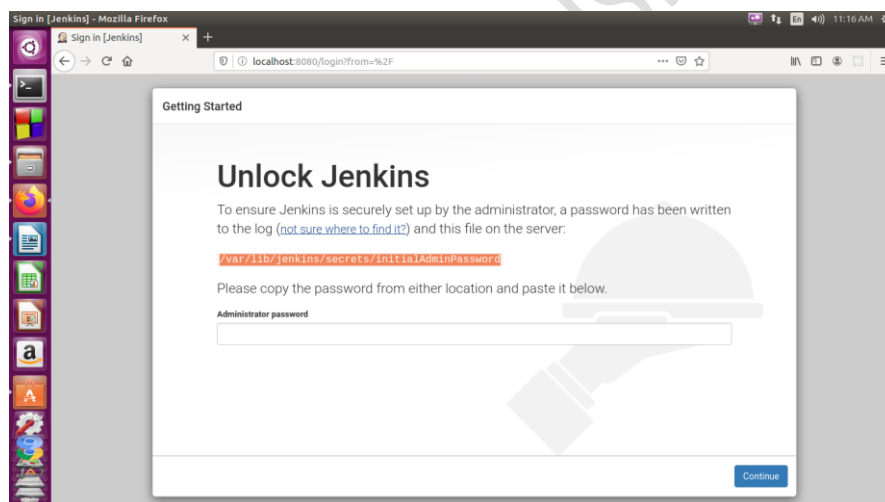
Name	Last modified	Size
jenkins_2.215_all.deb	2020/01/19	59.3M
jenkins_2.214_all.deb	2020/01/12	59.1M
jenkins_2.213_all.deb	2020/01/06	59.2M
jenkins_2.212_all.deb	2020/01/05	58.6M
jenkins_2.211_all.deb	2020/01/02	58.8M
jenkins_2.210_all.deb	2019/12/22	59.2M
jenkins_2.209_all.deb	2019/12/15	58.8M
jenkins_2.208_all.deb	2019/12/09	59.1M
jenkins_2.207_all.deb	2019/12/03	59.2M
jenkins_2.206_all.deb	2019/11/24	59.6M
jenkins_2.205_all.deb	2019/11/17	59.5M
jenkins_2.204_all.deb	2019/11/10	59.8M
jenkins_2.203_all.deb	2019/11/04	59.8M
jenkins_2.202_all.deb	2019/10/27	59.7M
jenkins_2.201_all.deb	2019/10/20	59.4M
jenkins_2.200_all.deb	2019/10/14	59.8M
jenkins_2.199_all.deb	2019/10/06	60.2M
jenkins_2.198_all.deb	2019/09/29	76.1M
jenkins_2.197_all.deb	2019/09/25	74.2M
jenkins_2.196_all.deb	2019/09/22	74.3M
jenkins_2.195_all.deb	2019/09/16	74.0M
jenkins_2.194_all.deb	2019/09/08	74.3M
jenkins_2.193_all.deb	2019/09/01	74.2M
jenkins_2.192_all.deb	2019/08/28	73.0M
jenkins_2.191_all.deb	2019/08/28	74.4M

Once downloaded, double click on file and open with software centre. Click on install button to perform installation.

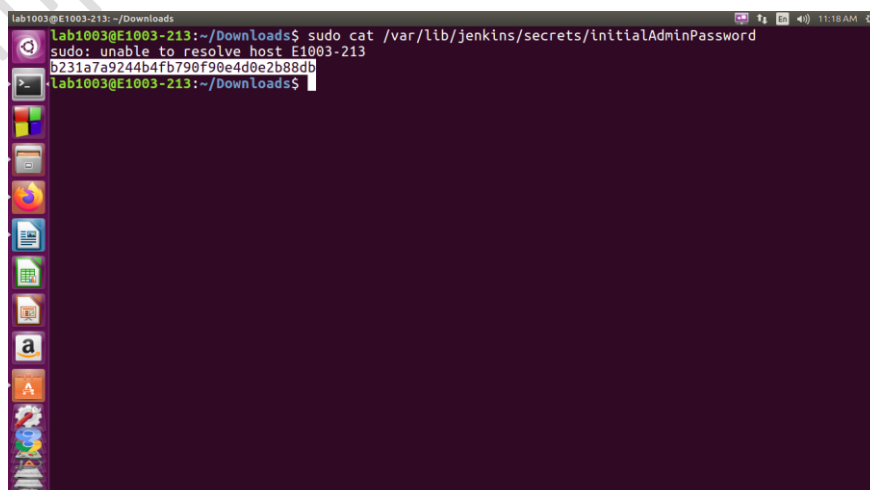


Once Installation is done, you can test the jenkins on <http://localhost:8080> on the browser.

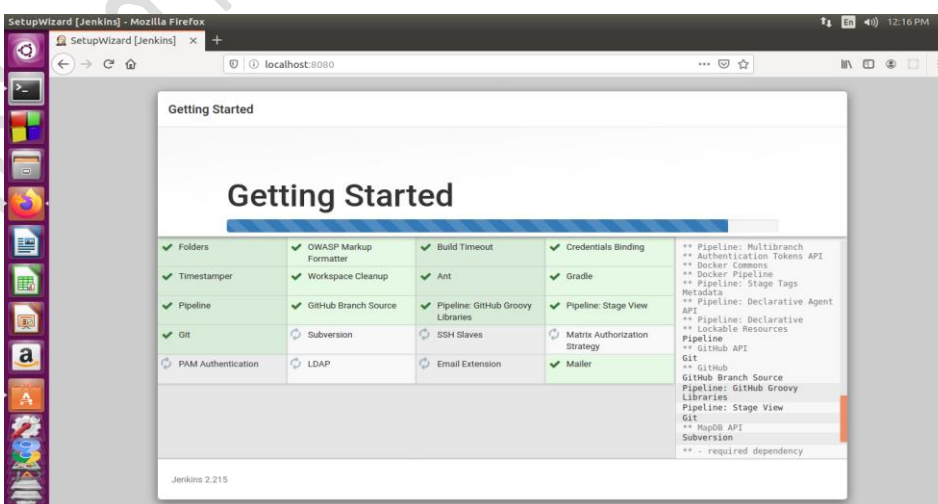
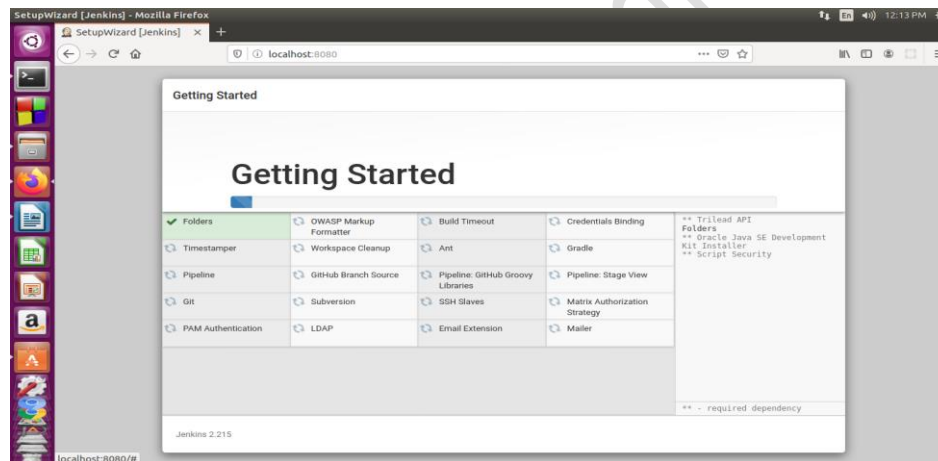
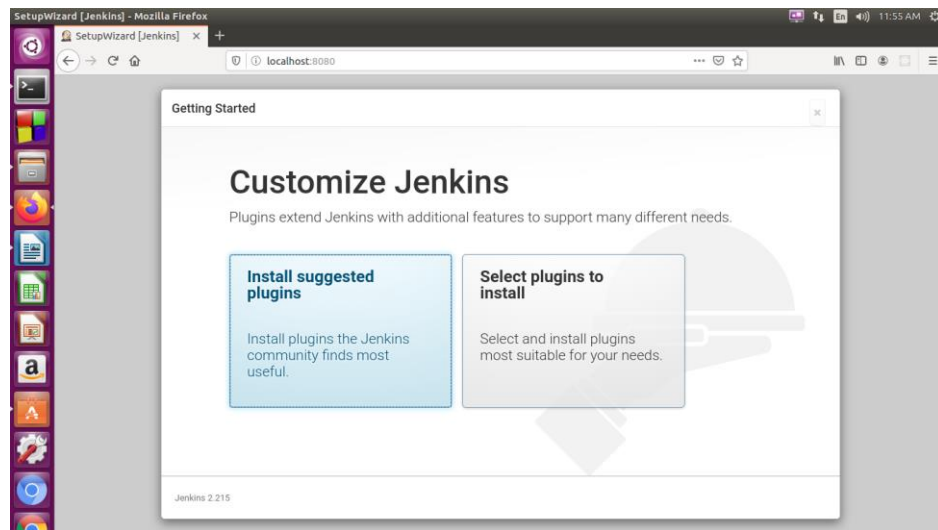
First time, when you open jenkins portal it will ask to put admin default password which is stored in `/var/lib/jenkins/secrets/initialAdminPassword` file.



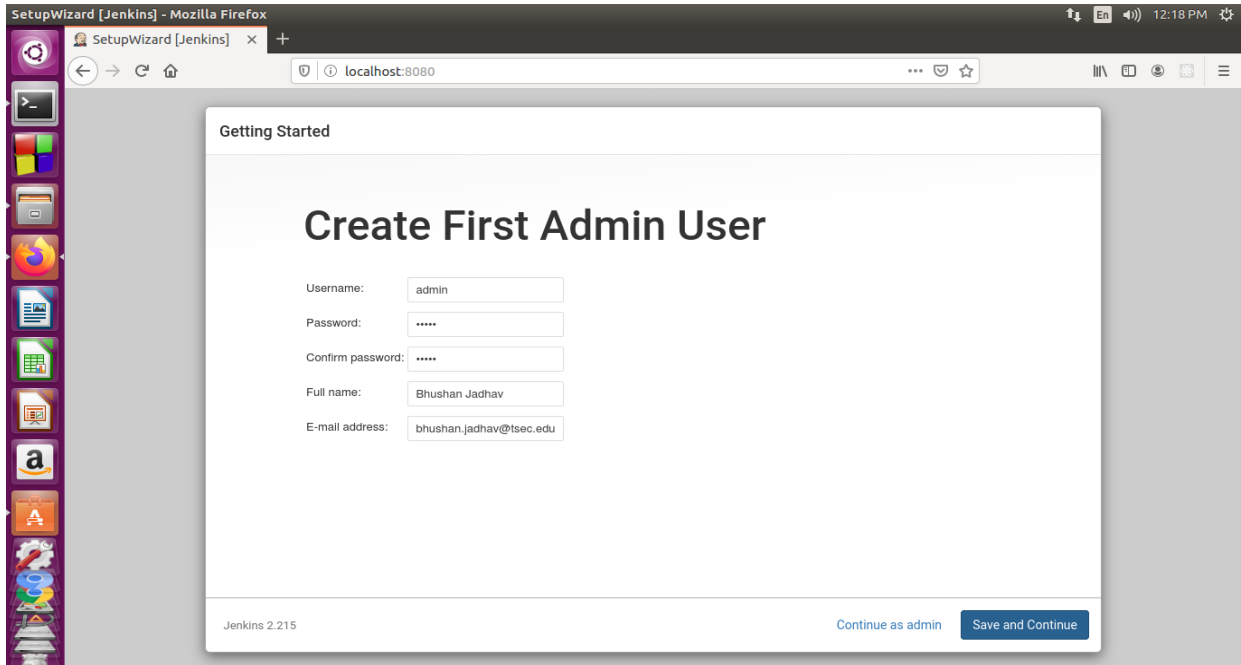
So, open the file through terminal and get the password for configuring jenkins for the first time.



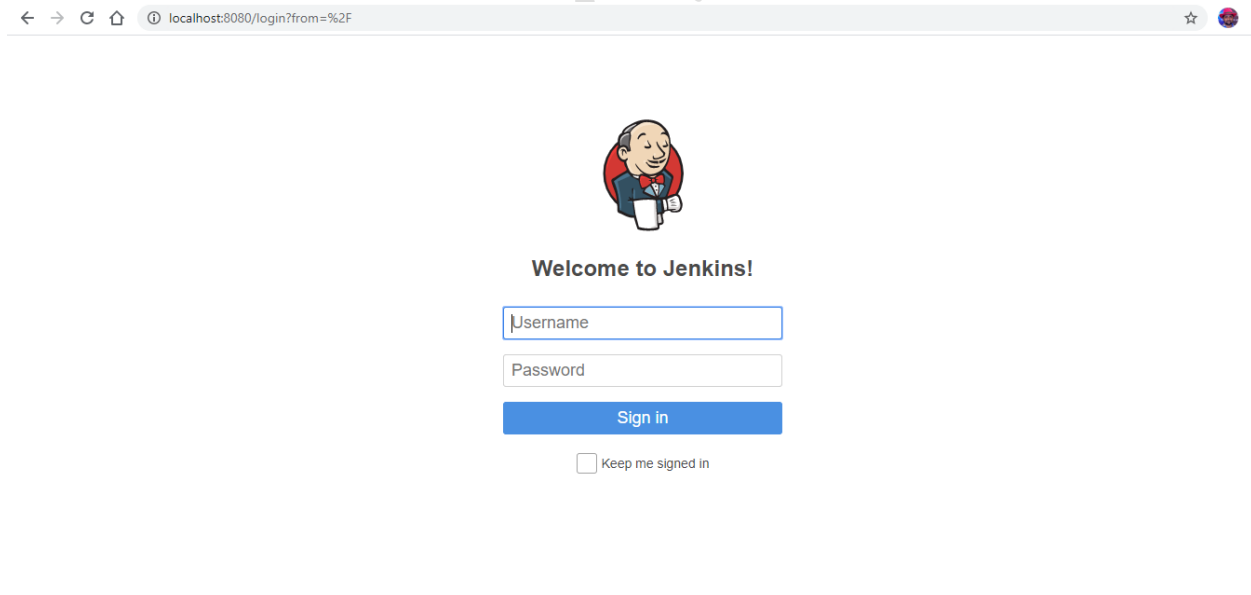
Now, copy the password and add into the portal and click on install plugins to install selected plugins.



Once plugins are installed, click on next and specify the admin details along with the new password for jenkins admin and click on finish to complete the installation.



Once installation is done, open Jenkins dashboard using <http://localhost:8080> address.



So, by providing the right credentials you can access jenkins dashboard as shown below.

