**Steps for installing Jenkins on Ubuntu 16.04**

1. Install Java (Installed version: openjdk version "1.8.0\_181")

**Commands:**

* sudo add-apt-repository ppa:openjdk-r/ppa
* sudo apt-get update
* sudo apt-get install openjdk-8-jre

1. Install Jenkins

**Commands:**

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

**To access Jenkins:** Visit URL<http://server_IP:8080>

* Initial Admin password can be found at location “**/var/lib/jenkins/secrets/**”
* Installed the suggested plugins
* Created an admin user
* To install other plugins, go to **Manage Jenkins -> Manage Plugins -> Available**

**Other plugins installed in Jenkins (Install these plugins according to your requirements):**

* + - [Bitbucket Plugin](https://wiki.jenkins-ci.org/display/JENKINS/BitBucket+Plugin)
    - [Docker plugin](http://wiki.jenkins-ci.org/display/JENKINS/Docker+Plugin)
    - [docker-build-step](https://wiki.jenkins-ci.org/display/JENKINS/Docker+build+step+plugin)
    - [GitHub Organization Folder Plugin](https://wiki.jenkins-ci.org/display/JENKINS/GitHub+Organization+Folder+Plugin)
    - [HTML Publisher plugin](http://wiki.jenkins-ci.org/display/JENKINS/HTML+Publisher+Plugin)
    - [Startup Trigger](http://wiki.jenkins-ci.org/display/JENKINS/Startup+Trigger)
    - [TextFinder plugin](http://wiki.jenkins-ci.org/display/JENKINS/Text-finder+Plugin)
    - [Throttle Concurrent Builds Plug-in](http://wiki.jenkins-ci.org/display/JENKINS/Throttle+Concurrent+Builds+Plugin)
    - [Xvnc plugin](http://wiki.jenkins-ci.org/display/JENKINS/Xvnc+Plugin)
    - External Monitor Job Type
    - Icon Shim

Configure Jenkins:

1. Run below command to check status:
   1. root@ubuntu-14:~# service jenkins status
   2. Jenkins Continuous Integration Server is running with the pid 16997
   3. If you need to update the configurations of Jenkins as per your requirements, then you can find its configuration file under the `/etc/default/` directory and can make the changes.
      1. root@ubuntu-14:~# vim /etc/default/Jenkins
   4. Jenkins runs on port 8080 by default for HTTP connector. Now let’s open your web browser to use its GUI.
2. Go to <http://your-ip-address:8080>. It will open Jenkin web
3. Click on `Manage Jenkins` and then choose the required parameter to start required configurations.
4. Consider enabling authentication to discourage misuse by configuring Jenkins global security parameters and then apply to save the changes as shown.
5. To configure the global settings and paths for the Jenkins configurations, we’ll make a few changes to enter the correct path to your JDK, Apache Ant and Maven. Jenkins can also install these for you automatically. Once your settings are done, press the Save button to update the changes shown below.
6. Scheduling First Job with Jenkins
   1. To schedule your new jobs, click the `New Item` on the top left of your Jenkins Dashboard, then enter a name for the job and select `Freestyle Job`. Press OK to create a new Job.
   2. The next page allows you to configure your job, so give it an appropriate name. From the bottom, expand the `Add Build Step` option and select `Execute Shell` where you will put the command that you wish to execute in the terminal, we are using the `w` command here to check the system load and currently logged in users.
   3. Once the next page is done loading, click the `Build Now` button on the sidebar of your dashboard.
   4. You can see build on build history link