**Jenkins**

Step by step instruction of jenkins [Install Jenkins on Ubuntu 18.04 – Easy Step-by-Step Guide (hostinger.in)](https://www.hostinger.in/tutorials/how-to-install-jenkins-on-ubuntu/) (For manually in ubuntu)

If you want to change Jenkins port in ubuntu:

sudo nano /etc/default/Jenkins

By default, Jenkins stores all of its data in this directory on the file system in ubuntu

/var/lib/jenkins

**In Linux By Raghab (**[**https://youtu.be/jmm8DsosBqw**](https://youtu.be/jmm8DsosBqw)**) :**

Step 1 : Connect to your Linux machine SetUp JAVA PATH Set up Custom TCP port: 8080 in AWS Security Groups

Step 2: Update Packages sudo yum update

Step 3 : Check Java is installed. If not install java java -version sudo yum install java-1.8.0 To check and select one out of multiple java versions available sudo /usr/sbin/alternatives --config java

Step 4 : Download latest Jenkins code package sudo wget -O /etc/yum.repos.d/jenkins.repo [http://pkg.jenkins-ci.org/redhat/jenk...](https://www.youtube.com/redirect?event=video_description&redir_token=QUFFLUhqa3pFazg4dHZGVFctRWZjanhtQ0lFSVJMUzhQZ3xBQ3Jtc0tsYzlEaXdIUXN3TXduWk9RWU0xTmlFOUJGS3ZPT0xpbWw0UC1ETXJsZHViZTJQOEJKNlNzNlNxOGZyYkc0M2MtMVhzbUJYUlpfNnBjZWhRekFkYW5jYl9zOXI4c2R6U1BRZFZmdmt3cjFId2F6RWxKVQ&q=http%3A%2F%2Fpkg.jenkins-ci.org%2Fredhat%2Fjenkins.repo&v=jmm8DsosBqw)

Step 5 : Import a key file from Jenkins-CI to enable installation from the package sudo rpm --import [http://pkg.jenkins-ci.org/redhat/jenk...](https://www.youtube.com/redirect?event=video_description&redir_token=QUFFLUhqazlVdHMxWURqSm5id0syV0JyelFhS1hWaEl4UXxBQ3Jtc0trZ0dxNG16Z3RnSmUxOTA4X0V1a1pOSjk2NEpkOFlrUlI0MEZWSWIydXRaWDZVT1AzRjdDMS1uSVJZd202U3ZjblZLa3R6TDZUSnN4QV8tcjNySWdidW9YREpEaXFweEEza0llUlFXRkFFSTZXWTNwOA&q=http%3A%2F%2Fpkg.jenkins-ci.org%2Fredhat%2Fjenkins-ci.org.key&v=jmm8DsosBqw)

Step 6 : Install Jenkins sudo yum install jenkins

Step 7 : Start jenkins sudo service jenkins start

Step 8 : Access Jenkins server using the public DNS of your ec2 on port 8080 http://{ec2-public-dns}:8080 example : http://3.89.79.74:8080/

Useful tips To start jenkins on a diff port

* Update port number in /etc/sysconfig/Jenkins

To fetch initial admin password

* sudo su - cd /var/lib/jenkins/secrets/
* cat initialAdminPassword
* 0bcbbcab7f984af7b4171b55e9201d04

To stop Jenkins

* sudo service jenkins stop

To uninstall Jenkins

* sudo service jenkins stop
* sudo yum remove jenkins
* sudo rm -r /var/lib/jenkins

**Installation on Windows (**By https://youtu.be/woMAXn4e8NA)

Step 1 : check Java is installed

Step 2 : Download Jenkins.war file

Step 3 : Goto cmd prompt and run command java -jar jenkins.war --httpPort=9191

Step 4 : On browser goto <http://localhost:9191>

Step 5 : Provide admin password and complete the setup

**Jenkins Configuration**

How to change Home Directory

Step 1: Check your Jenkins Home ＞ Manage Jenkins ＞ Configure System

Step 2 : Create a new folder

Step 3 : Copy the data from old folder to new folder

Step 4 : Create/Update env variable JENKINS\_HOME Step

5 : Restart Jenkins jenkins.xml JENKINS\_HOME

How to setup Git on Jenkins

Step 1 : Goto Manage Jenkins ＞ Manage Plugins

Step 2 : Check if git is already installed in Installed tab

Step 3 : Else goto Available tab and search for git

Step 4 : Install Git

Step 5 : Check git option is present in Job Configuration

Create the first Job on Jenkins

How to connect to Git Remote Repository in Jenkins (GitHub)

Step 1 Get the url of the remote repository

Step 2 Add the git credentials on Jenkins

Step 3 In the jobs configuration goto SCM and provide git repo url in git section

Step 4 Add the credentials

Step 5 Run job and check if the repository is cloned

**How to use Command Line in Jenkins CLI Faster, easier, integrate**

Step 1 start Jenkins

Step 2 goto Manage Jenkins 🡪 Configure Global Security 🡪 enable security

Step 3 goto - <http://localhost:8080/cli/>

Step 4 download jerkins-cli jar. Place at any location.

Step 5 test the jenkins command line is working

java -jar jenkins-cli.jar -s http://localhost:8080 /help --username ＜userName＞ --password ＜password＞

**User:**

How to create Users + Manage + Assign Roles

How to create New Users

How to configure users

How to create new roles

How to assign users to roles

How to Control user access on projects

Step 1 Create new users

Step 2 Configure users

Step 3 Create and manage user roles Role Based Authorization Strategy Plugin - download - restart jenkins

Step 4 Manage Jenkins - Configure Global Security - Authorization - Role Based Strategy

Step 5 Create Roles and Assign roles to users

Step 6 Validate authorization and authentication are working properly

**Jenkins File**

A Jenkins file can be written using 2 types of syntax - Declarative(Most rescent way) and Scripted(older way) Both are written with Groovy but have a different structure

Jenkins file -Pipeline as code

Step 1 : Start Jenkins

Step2 :Install pipeline plugin

Step 3:Create new job

Step 4:Create or get Jenkinsfile in pipeline section

Step 5 :Run and check the output

How to get Jenkins file from GIT SCM?

Step1:Create a job or use existing job(type: pipeline)

Step2:Create a repository in git or any SCM

Step3: Add jenkinsfile in repository

Step4:Under Jenkins job 🡪Pipeline section 🡪Select pipeline script from SCM

Step5:Add repo and Jenkins file location in Jenkins job under pipeline section

Step6:save and run

**Webhooks with Jenkins?**

<https://youtu.be/adVWQc8T9qg>

Also watch this series for more clarification <https://youtube.com/playlist?list=PL6flErFppaj35spJjPy41-lruDjw2kRV->

**ERROR :**

i am admin how to solve An internal error occurred during form field validation (HTTP 403). Please reload the page and if the problem persists, ask the administrator for help.

Solution - [spinnaker - Jenkins: 403 No valid crumb was included in the request - Stack Overflow](https://stackoverflow.com/questions/44711696/jenkins-403-no-valid-crumb-was-included-in-the-request)