


CHANGING PORT NUMBER FOR JENKINS

- Install Jenkins in your ec2 ubuntu machine.
- Change your directory to /etc/defaults.

`cd /etc/defaults`

The /etc directory is contained in the root directory. It stores storage system configuration files, executables required to boot the system, and some log files.

 root@ip-172-31-5-13: /etc/default

```
root@ip-172-31-5-13:/home/ubuntu# cd /etc/default
root@ip-172-31-5-13:/etc/default# ll
total 108
drwxr-xr-x   3 root root 4096 Dec 26 15:08 ./
drwxr-xr-x 105 root root 4096 Dec 26 15:08 ../
-rw-r--r--   1 root root  346 Jan 25  2022 acpid
-rw-r--r--   1 root root  328 Dec 21  2019 amd64-microcode
-rw-r--r--   1 root root  149 Sep 16  2021 apport
-rw-r--r--   1 root root  384 Sep  9  2019 cacerts
-rw-r--r--   1 root root  412 Feb  8  2022 chrony
-rw-r--r--   1 root root  284 Dec  1 11:07 console-setup
-rw-r--r--   1 root root  150 Mar 17  2021 cron
-rw-r--r--   1 root root  460 Jan 13  2022 cryptdisks
-rw-r--r--   1 root root  297 Jun 28  2021 dbus
-rw-r--r--   1 root root 1208 Dec  1 11:11 grub
drwxr-xr-x   2 root root 4096 Dec  1 11:10 grub.d/
-rw-r--r--   1 root root 1029 Jun 23  2021 intel-microcode
-rw-r--r--   1 root root 1396 Mar 24  2022 irqbalance
-rw-r--r--   1 root root 2830 Nov 30 10:32 jenkins
-rw-r--r--   1 root root  150 Dec  1 11:06 keyboard
-rw-r--r--   1 root root   13 Dec  1 11:07 locale
-rw-r--r--   1 root root  854 Dec  1 11:07 mdadm
-rw-r--r--   1 root root  682 Jul 28 15:18 motd-news
-rw-r--r--   1 root root  152 Jul 12  2021 networkd-dispatcher
-rw-r--r--   1 root root 2691 Jan 19  2022 open-iscsi
-rw-r--r--   1 root root  363 Feb  9  2021 pollinate
-rw-r--r--   1 root root 2062 Oct 11 22:37 rsync
-rw-r--r--   1 root root  133 Feb 25  2022 ssh
-rw-r--r--   1 root root 1897 Feb 16  2022 ufw
-rw-r--r--   1 root root 1118 Nov 11  2021 useradd
root@ip-172-31-5-13:/etc/default#
```

**CHANGING
DIRECTORY**

- Open Jenkins file in vi editor and change the default port number in HTTP_PORT=8080 to the port number to be changed and save it. vi Jenkins

```
# set the umask to control permission bits of files that Jenkins creates.
# 027 makes files read-only for group and inaccessible for others, which some security sensitive users
# might consider beneficial, especially if Jenkins runs in a box that's used for multiple purposes.
# Beware that 027 permission would interfere with sudo scripts that run on the master (JENKINS-25065.)
#
# Note also that the particularly sensitive part of $JENKINS_HOME (such as credentials) are always
# written without 'others' access. So the umask values only affect job configuration, build records,
# that sort of things.
#
# If commented out, the value from the OS is inherited, which is normally 022 (as of Ubuntu 12.04,
# by default umask comes from pam_umask(8) and /etc/login.defs
#
# UMASK=027

# port for HTTP connector (default 8080; disable with -1)
HTTP_PORT=9090

# servlet context, important if you want to use apache proxying
PREFIX=/$NAME

# arguments to pass to jenkins.
# full list available from java -jar jenkins.war --help
# --javaHome=$JAVA_HOME
# --httpListenAddress=$HTTP_HOST (default 0.0.0.0)
# --httpPort=$HTTP_PORT (default 8080; disable with -1)
# --httpsPort=$HTTPS_PORT
# --arguments=Real:Passwd $ADMIN_USER={password}
```

- And also change the port number in /usr/lib/systemd/system/jenkins.service.

Using the command

```
vi /usr/lib/systemd/system/jenkins.service
```

In that change Enviroment="JENKINS_PORT=8080" to the port number to be changed and save it.

root@ip-172-31-5-13: /

```
# Location of the exploded WAR
Environment="JENKINS_WEBROOT=%C/jenkins/war"

# Location of the Jenkins log. By default, systemd-journald(8) is used.
#Environment="JENKINS_LOG=%L/jenkins/jenkins.log"

# The Java home directory. When left empty, JENKINS_JAVA_CMD and PATH are consulted.
#Environment="JAVA_HOME=/usr/lib/jvm/java-11-openjdk-amd64"

# The Java executable. When left empty, JAVA_HOME and PATH are consulted.
#Environment="JENKINS_JAVA_CMD=/etc/alternatives/java"

# Arguments for the Jenkins JVM
Environment="JAVA_OPTS=-Djava.awt.headless=true"

# IP address to listen on for HTTP requests.
# The default is to listen on all interfaces (0.0.0.0).
#Environment="JENKINS_LISTEN_ADDRESS="

# Port to listen on for HTTP requests. Set to -1 to disable.
# To be able to listen on privileged ports (port numbers less than 1024),
# add the CAP_NET_BIND_SERVICE capability to the AmbientCapabilities
# directive below.
Environment="JENKINS_PORT=9090"

# IP address to listen on for HTTPS requests. Default is disabled.
#Environment="JENKINS_HTTPS_LISTEN_ADDRESS="
```

- Now restart the Jenkins

Before restarting reload the units of source file using the command

`systemctl daemon-reload`

Restart using the command

`service jenkins restart`

```
root@ip-172-31-5-13:~# systemctl daemon-reload
root@ip-172-31-5-13:~# service jenkins restart
root@ip-172-31-5-13:~# service jenkins status
● jenkins.service - Jenkins Continuous Integration Server
   Loaded: loaded (/lib/systemd/system/jenkins.service; enabled; vendor preset: enabled)
   Active: active (running) since Mon 2022-12-26 15:35:34 UTC; 3min 32s ago
     Main PID: 4910 (java)
       Tasks: 38 (limit: 1143)
      Memory: 215.7M
         CPU: 21.134s
        CGroup: /system.slice/jenkins.service
                └─4910 /usr/bin/java -Djava.awt.headless=true -jar /usr/share/java/jenkins.war --webroot=/var/cache/jenkins/war

Dec 26 15:35:20 ip-172-31-5-13 jenkins[4910]: Jenkins initial setup is required. An admin user has been created and a password
Dec 26 15:35:20 ip-172-31-5-13 jenkins[4910]: Please use the following password to proceed to installation:
Dec 26 15:35:20 ip-172-31-5-13 jenkins[4910]: 6a8e3fb5bc2b4fd1b69d2bca5d74fab0
Dec 26 15:35:20 ip-172-31-5-13 jenkins[4910]: This may also be found at: /var/lib/jenkins/secrets/initialAdminPassword
Dec 26 15:35:20 ip-172-31-5-13 jenkins[4910]: *****
Dec 26 15:35:20 ip-172-31-5-13 jenkins[4910]: *****
Dec 26 15:35:20 ip-172-31-5-13 jenkins[4910]: *****
Dec 26 15:35:34 ip-172-31-5-13 jenkins[4910]: 2022-12-26 15:35:34.782+0000 [id=28] INFO jenkins.InitReactorRunn
Dec 26 15:35:34 ip-172-31-5-13 jenkins[4910]: 2022-12-26 15:35:34.815+0000 [id=22] INFO hudson.lifecycle.Lifecy
Dec 26 15:35:34 ip-172-31-5-13 systemd[1]: Started Jenkins Continuous Integration Server.
lines 1-20/20 (END)
```

- Check it by hitting the port number in search engine with publicipaddress:portnumber.

