

TASK 1

INSTALLING AND SETTING UP JENKINS ON A LINUX MACHINE

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TO INSTALL AND SET UP JENKINS ON A LINUX MACHINE FOLLOW THE BELOW STEPS:

STEP 1 : Run the below commands on the terminal of ubuntu machine .

```
52 wget -O /usr/share/keyrings/jenkins-keyring.asc https://pkg.jenkins.io
/debian-stable/jenkins.io-2023.key
53 echo "deb [signed-by=/usr/share/keyrings/jenkins-keyring.asc]" https://
/pkg.jenkins.io/debian-stable binary/ | sudo tee /etc/apt/sources.list.d/jenk
ins.list > /dev/null
54 apt-get update
55 apt-get install jenkins
56 apt update
57 apt install fontconfig openjdk-17-jre
58 systemctl start jenkins
59 systemctl status jenkins
60 visudo
61 systemctl enable jenkins
62 visudo
63 ip addr
```

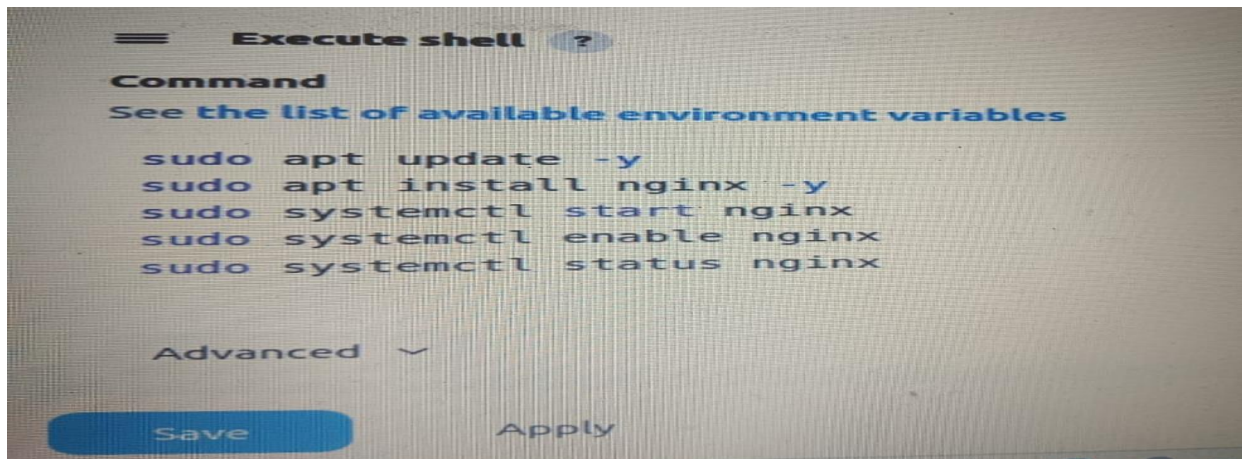
STEP 2 : Ip address

```
sindhu@Ubuntu:~$ ip addr
1: lo: <LOOPBACK,UP,LOWER_UP> mtu 65536 qdisc noqueue state UNKNOWN group defau
lt qlen 1000
    link/loopback 00:00:00:00:00:00 brd 00:00:00:00:00:00
    inet 127.0.0.1/8 scope host lo
        valid_lft forever preferred_lft forever
    inet6 ::1/128 scope host
        valid_lft forever preferred_lft forever
2: enp0s3: <BROADCAST,MULTICAST,UP,LOWER_UP> mtu 1500 qdisc fq_codel state UP g
roup default qlen 1000
    link/ether 08:00:27:59:4e:43 brd ff:ff:ff:ff:ff:ff
    inet 10.0.2.15/24 brd 10.0.2.255 scope global dynamic noprefixroute enp0s3
        valid_lft 75999sec preferred_lft 75999sec
    inet6 fe80::f28c:ebf0:d31a:3504/64 scope link noprefixroute
        valid_lft forever preferred_lft forever
sindhu@Ubuntu:~$
```

STEP 3 : After step 2, open the Ip address as like <http://10.0.2.15/8080> and login Jenkins account with your username and password.

STEP 4 : After step 3, create a freestyle project job by creating an item name[eg : “sample”] and select freestyle project and click ok.

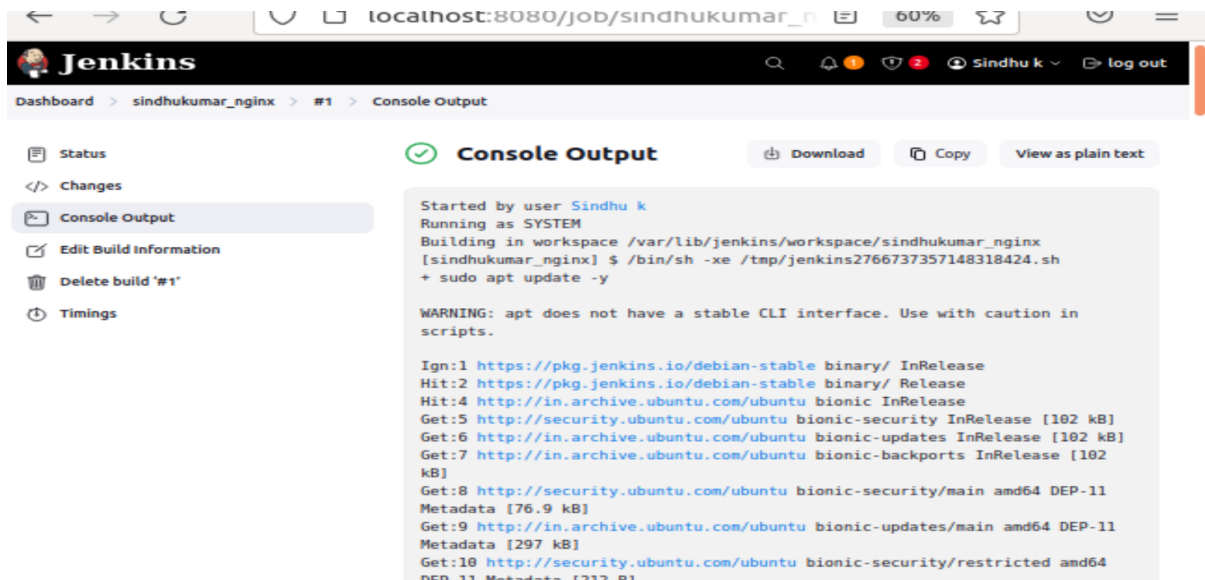
STEP 5 : After step 4, configure a job to install nginx by clicking “add build step” and select execute shell to run shell commands.



STEP 6 : After step 5, save and run job.

STEP 7 : After step 6, click “build now” to execute job.

STEP 8 : After step 7, as we can console output.



sindhukumar_nginx #1 CcX +

localhost:8080/job/sindhukumar_nginx/

60%

Dashboard > sindhukumar_nginx > #1 > Console Output

597 kB in 3s (171 kB/s)

dpkg-preconfigure: unable to re-open stdin:
Selecting previously unselected package nginx-common.
(Reading database ...
(Reading database ... 5%
(Reading database ... 10%
(Reading database ... 15%
(Reading database ... 20%
(Reading database ... 25%
(Reading database ... 30%
(Reading database ... 35%
(Reading database ... 40%
(Reading database ... 45%
(Reading database ... 50%
(Reading database ... 55%
(Reading database ... 60%
(Reading database ... 65%
(Reading database ... 70%
(Reading database ... 75%
(Reading database ... 80%
(Reading database ... 85%
(Reading database ... 90%
(Reading database ... 95%
(Reading database ... 100%
(Reading database ... 127863 files and directories currently installed.)
Preparing to unpack .../0-nginx-common_1.14.0-0ubuntu1.11_all.deb ...
Unpacking nginx-common (1.14.0-0ubuntu1.11) ...
Selecting previously unselected package libnginx-mod-http-geoip.
Preparing to unpack .../1-libnginx-mod-http-geoip_1.14.0-0ubuntu1.11_amd64.deb ...
Unpacking libnginx-mod-http-geoip (1.14.0-0ubuntu1.11) ...

sindhukumar_nginx #1 CcX +

localhost:8080/job/sindhukumar_nginx/

60%

Dashboard > sindhukumar_nginx > #1 > Console Output

sudo systemctl start nginx
+ sudo systemctl enable nginx

Synchronizing state of nginx.service with SysV service script with
/lib/systemd/systemd-sysv-install.
Executing: /lib/systemd/systemd-sysv-install enable nginx
+ sudo systemctl status nginx

● nginx.service - A high performance web server and a reverse proxy server
Loaded: loaded (/lib/systemd/system/nginx.service; enabled; vendor
preset: enabled)
Active: active (running) since Tue 2025-03-18 10:12:15 IST; 10s ago
Docs: man:nginx(8)
Main PID: 3964 (nginx)
Tasks: 2 (limit: 3503)
CGroup: /system.slice/nginx.service
└─3964 nginx: master process /usr/sbin/nginx -g daemon on;
master_process on;
└─3965 nginx: worker process

Mar 18 10:12:15 Ubuntu systemd[1]: Starting A high performance web server
and a reverse proxy server...
Mar 18 10:12:15 Ubuntu systemd[1]: nginx.service: Failed to parse PID from
file /run/nginx.pid: Invalid argument
Mar 18 10:12:15 Ubuntu systemd[1]: Started A high performance web server and
a reverse proxy server.
Finished: SUCCESS

REST API Jenkins 2.492.2

STEP 9 : After step 8, as you can verify nginx installation on your browser.

Welcome to nginx!

If you see this page, the nginx web server is successfully installed and working. Further configuration is required.

For online documentation and support please refer to nginx.org.
Commercial support is available at nginx.com.

Thank you for using nginx.