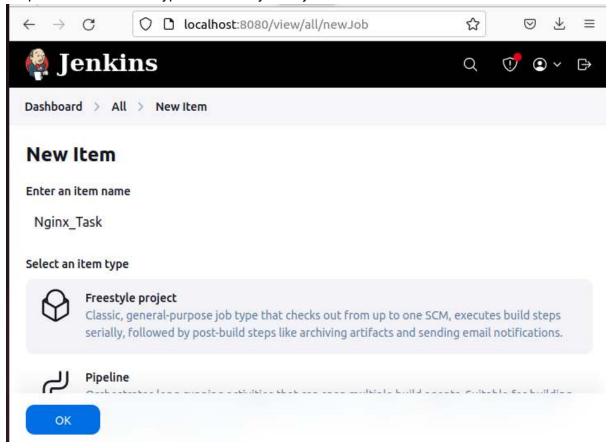
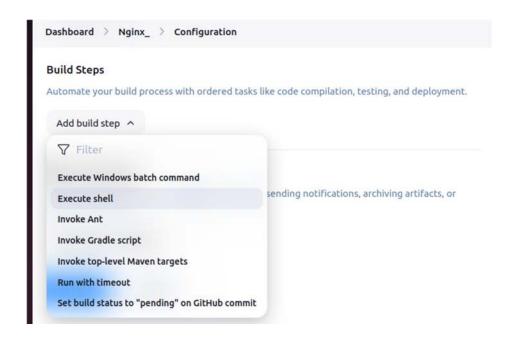
## **DEVOPS TASK - 1**

- Step 1: Open Oracle virtual Box and open the terminal
- Step 2: Enter the username(su) and password(changeme)
- Step 3: Give "sudo su -" to switch to the root user within a login shell.
- Step 4: Open jenkins and click on new item as "Nginx-Task"
- Step 5: Select the item type as "FreeStyle Project"



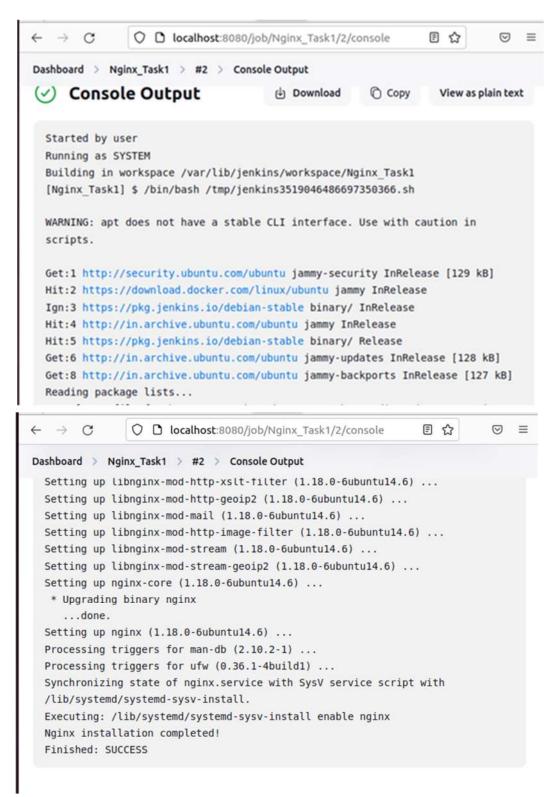
Step 6: Go to Build Steps and choose Execute Shell from Add build steps.



## Step 7: Give the commands



- Step 8: Then click on "Save".
- Step 9: Click "Build now".
- Step 10: Go to console output, I faced a sudo password related error.
- Step 11: In the terminal give "visudo"
- Step 12: Add "jenkins ALL=(ALL) NOPASSWD: ALL", save(ctrl+X and Y) and exit.
- Step 13: Run "systemctl status nginx"
- Step 14: Re-run the Job by clicking "Build Now"
- Step 15: Go to console output of #2.



Step 16: Go to terminal and give "systemctl status nginx"

```
vboxuser@Ubuntu:-S su
Password:
root@Ubuntu:/home/vboxuser# sudo su -
root@Ubuntu:~# ip a
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 glen 1000
    link/ether 08:00:27:d6:5c:96 brd ff:ff:ff:ff:ff
    inet 10.0.2.15/24 brd 10.0.2.255 scope global dynamic noprefixroute enp0s3
       valid_lft 83272sec preferred_lft 83272sec
    inet6 fe80::34b2:f0c2:e2e4:e75e/64 scope link noprefixroute
  valid_lft forever preferred_lft forever
3: docker0: <NO-CARRIER, BROADCAST, MULTICAST, UP> mtu 1500 qdisc noqueue state DO
WN group default
    link/ether 3a:53:e5:ad:39:6c brd ff:ff:ff:ff:ff:ff
    inet 172.17.0.1/16 brd 172.17.255.255 scope global docker0
       valid_lft forever preferred_lft forever
root@Ubuntu:~# systemctl status nginx
Unit nginx.service could not be found.
root@Ubuntu:~# visudo
root@Ubuntu:~# 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
```

Step 17: Give "hostname - I" in the terminal

```
root@Ubuntu:~# visudo
root@Ubuntu:~# 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>
     Active: active (running) since Tue 2025-03-18 16:53:29 IST; 2min 36s ago
       Docs: man:nginx(8)
   Main PID: 6982 (nginx)
      Tasks: 11 (limit: 4627)
     Memory: 10.2M
        CPU: 1.030s
     CGroup: /system.slice/nginx.service
              —6982 "nginx: master process /usr/sbin/nginx -g daemon on; maste>
                                                . . . . . .
              -6985 "nginx: worker process" ""
              -6986 "nginx: worker process" "" "" "" "" "" ""
               -6987 "nginx: worker process" "" "" "" "" "" "" "" "" "" "" "" ""
               -6988 "nginx: worker process" "" "" ""
               -6989 "nginx: worker process" ""
               -6990 "nginx: worker process" ""
               -6991 "nginx: worker process" "" "" ""
               -6992 "nginx: worker process" "" "" ""
               -6993 "nginx: worker process" "" "" "" "" "" "" "" "" "" "" ""
               6994 "nginx: worker process" "" "" "" "" "" "" "" "" "" "" ""
Mar 18 16:53:29 Ubuntu systemd[1]: Starting A high performance web server and
Mar 18 16:53:29 Ubuntu systemd[1]: Started A high performance web server and a>
root@Ubuntu:~# hostname -I
10.0.2.15 172.17.0.1
root@Ubuntu:~#
```

Step 18: This will give the Ip address - 10.0.2.15, Go to firefox and type https://10.0.2.15



## Welcome to nginx!

If you see this page, the  $\operatorname{nginx}$  web server is successfully installed and working. Further configuration is required.

For online documentation and support please refer to  $\underline{nginx.org}$ . Commercial support is available at  $\underline{nginx.com}$ .

Thank you for using nginx.