

# Devops Task - 1

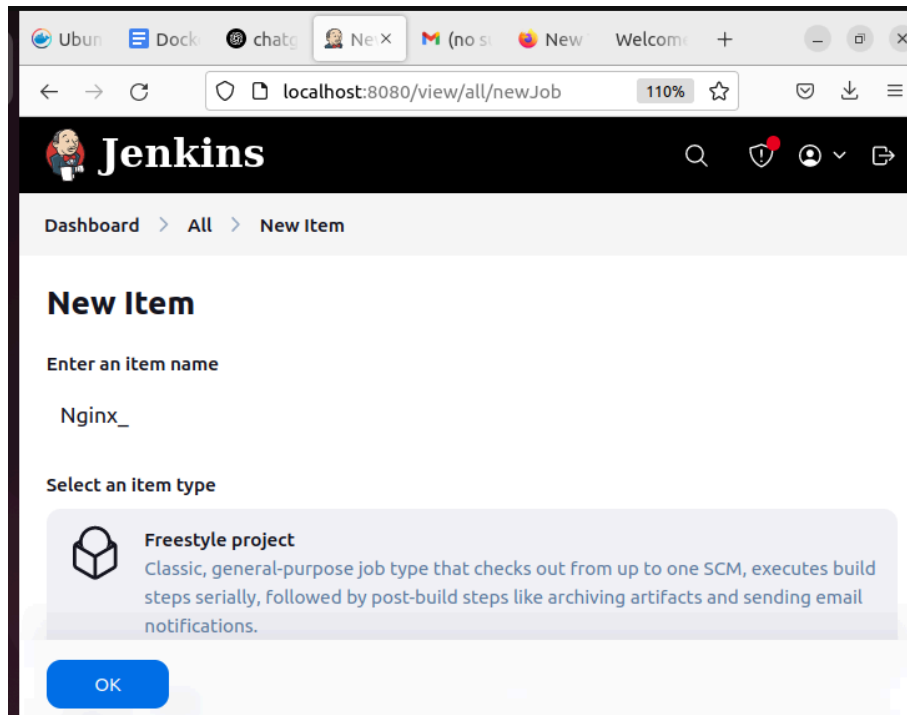
Step 1: Open Oracle virtual Box and open the terminal

Step 2: Enter the username(su) and password(changeme)

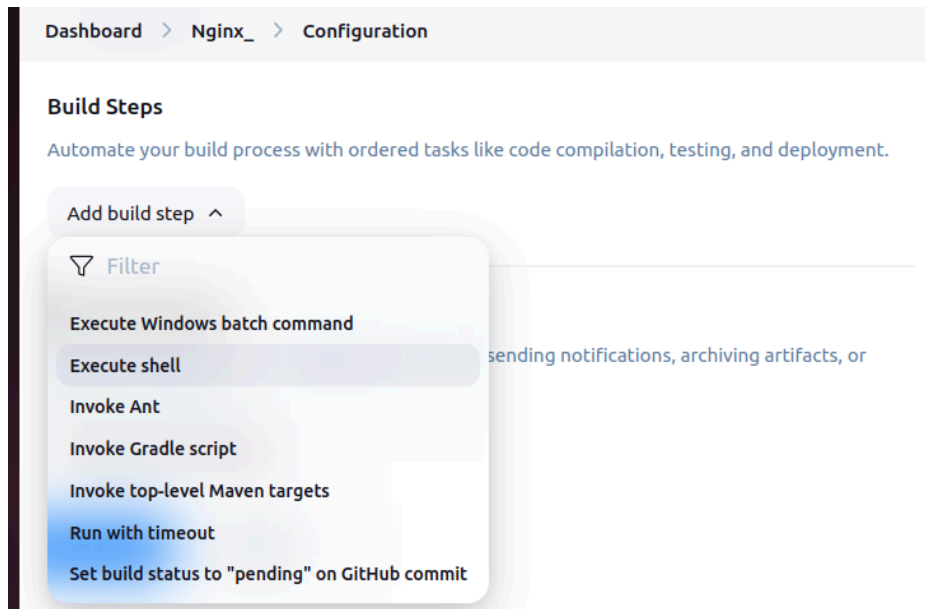
Step 3: Give "sudo su -" to switch to the root user within a login shell.

Step 4: Open jenkins and click on new item as "Nginx"

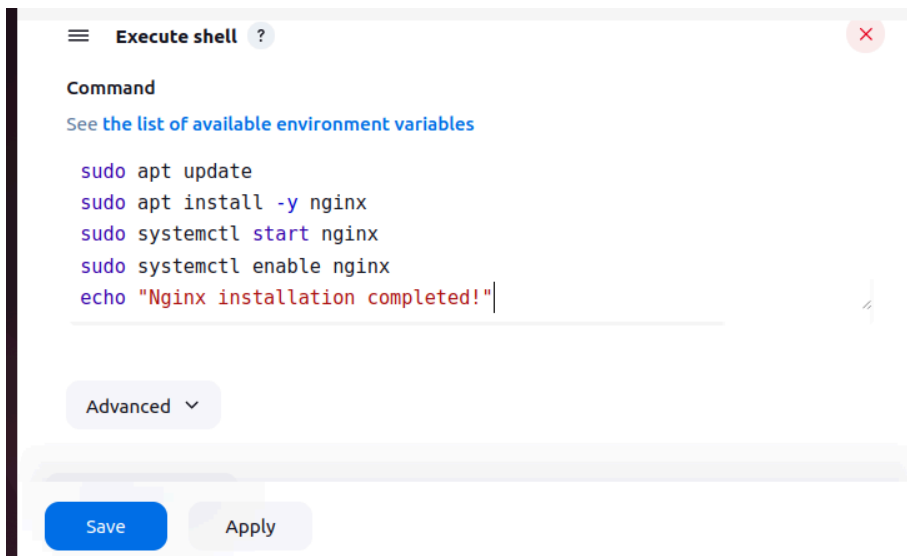
Step 5: Select the item type as "FreeStyle Project"



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.

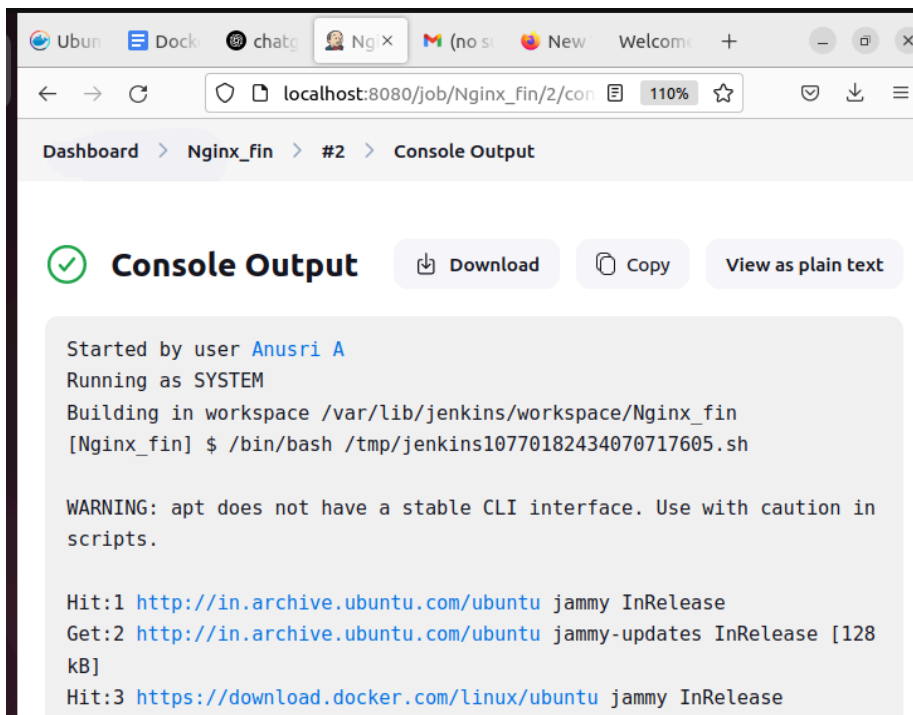
Step 11: In the terminal give "visudo"

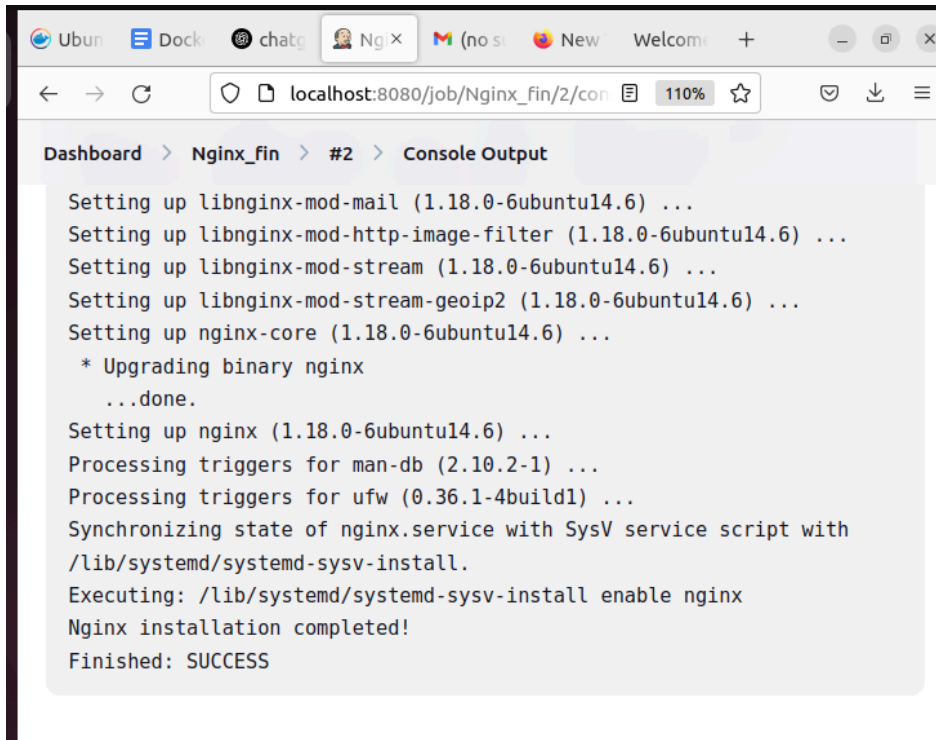
Step 12: Add "jenkins ALL=(ALL) NOPASSWD: ALL" , save(ctrl+X and Y) and exit.

Step 13: Run "systemctl status nginx"

Step 14: Re-run the Job by clicking "Build Now"

Step 15: Go to console output of #2.

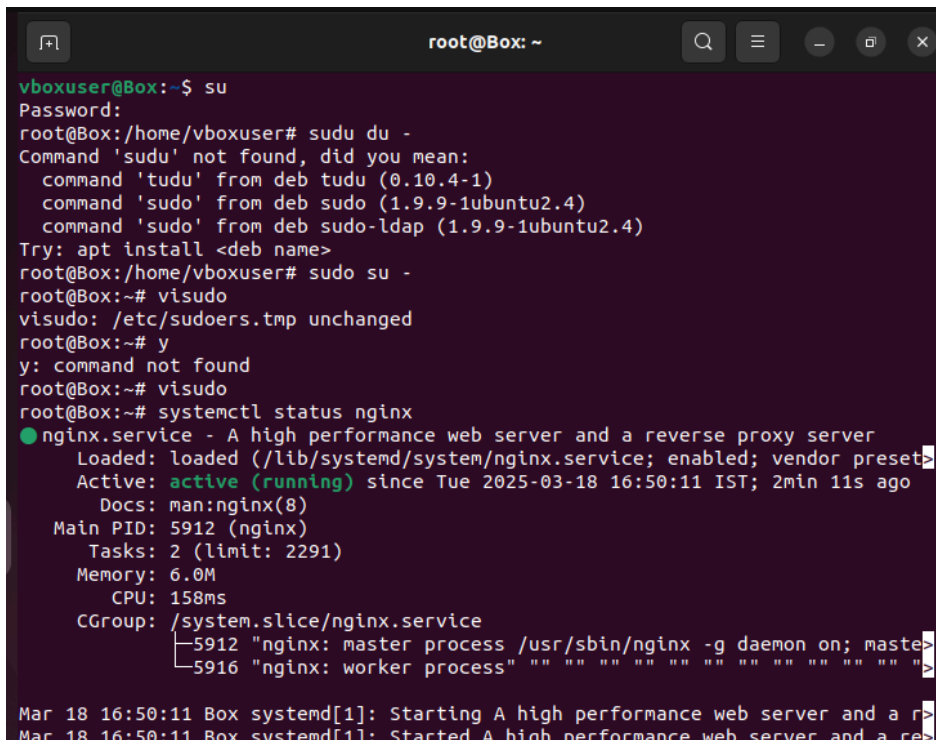




The screenshot shows a web browser window with the address bar at `localhost:8080/job/Nginx_fin/2/con`. The page title is "Dashboard > Nginx\_fin > #2 > Console Output". The console output displays the steps of installing Nginx on Ubuntu 14.6, including setting up various modules, upgrading the binary, and enabling the service. The installation is marked as successful.

```
Setting up libnginx-mod-mail (1.18.0-6ubuntu14.6) ...
Setting up libnginx-mod-http-image-filter (1.18.0-6ubuntu14.6) ...
Setting up libnginx-mod-stream (1.18.0-6ubuntu14.6) ...
Setting up libnginx-mod-stream-geoip2 (1.18.0-6ubuntu14.6) ...
Setting up nginx-core (1.18.0-6ubuntu14.6) ...
* Upgrading binary nginx
...done.
Setting up nginx (1.18.0-6ubuntu14.6) ...
Processing triggers for man-db (2.10.2-1) ...
Processing triggers for ufw (0.36.1-4build1) ...
Synchronizing state of nginx.service with SysV service script with
/lib/systemd/systemd-sysv-install.
Executing: /lib/systemd/systemd-sysv-install enable nginx
Nginx installation completed!
Finished: SUCCESS
```

Step 16: Go to terminal and give “systemctl status nginx”



The screenshot shows a terminal window with the prompt `root@Box: ~`. The user runs `su` to become root, then `sudo du -` (which fails), then `sudo su -` to become root. They run `visudo` (which updates the sudoers file), then `y` (which fails), then `visudo` again. Finally, they run `systemctl status nginx`, which shows that the nginx service is active and running.

```
vboxuser@Box:~$ su
Password:
root@Box:/home/vboxuser# sudo du -
Command 'sudo' not found, did you mean:
  command 'tudu' from deb tudu (0.10.4-1)
  command 'sudo' from deb sudo (1.9.9-1ubuntu2.4)
  command 'sudo' from deb sudo-ldap (1.9.9-1ubuntu2.4)
Try: apt install <deb name>
root@Box:/home/vboxuser# sudo su -
root@Box:~# visudo
visudo: /etc/sudoers.tmp unchanged
root@Box:~# y
y: command not found
root@Box:~# visudo
root@Box:~# 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 16:50:11 IST; 2min 11s ago
     Docs: man:nginx(8)
   Main PID: 5912 (nginx)
    Tasks: 2 (limit: 2291)
   Memory: 6.0M
      CPU: 158ms
   CGroup: /system.slice/nginx.service
           └─5912 "nginx: master process /usr/sbin/nginx -g daemon on; maste>
             └─5916 "nginx: worker process" "" "" "" "" "" "" "" "" "" "" "">

Mar 18 16:50:11 Box systemd[1]: Starting A high performance web server and a r>
Mar 18 16:50:11 Box systemd[1]: Started A high performance web server and a re>
```

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

```
root@Box: ~  
command 'sudo' from deb sudo (1.9.9-1ubuntu2.4)  
command 'sudo' from deb sudo-ldap (1.9.9-1ubuntu2.4)  
Try: apt install <deb name>  
root@Box:/home/vboxuser# sudo su -  
root@Box:~# visudo  
visudo: /etc/sudoers.tmp unchanged  
root@Box:~# y  
y: command not found  
root@Box:~# visudo  
root@Box:~# 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 16:50:11 IST; 2min 11s ago  
     Docs: man:nginx(8)  
  Main PID: 5912 (nginx)  
    Tasks: 2 (limit: 2291)  
   Memory: 6.0M  
      CPU: 158ms  
   CGroup: /system.slice/nginx.service  
           └─5912 "nginx: master process /usr/sbin/nginx -g daemon on; maste>  
             └─5916 "nginx: worker process" "" "" "" "" "" "" "" "" "" "" "">  
  
Mar 18 16:50:11 Box systemd[1]: Starting A high performance web server and a r>  
Mar 18 16:50:11 Box systemd[1]: Started A high performance web server and a re>  
lines 1-14/14 (END)  
  
root@Box:~# hostname -I  
10.0.2.15 172.17.0.1 fd00::4657:46:1eb6:71e9 fd00::c84c:df71:775b:39ce  
root@Box:~#
```

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

