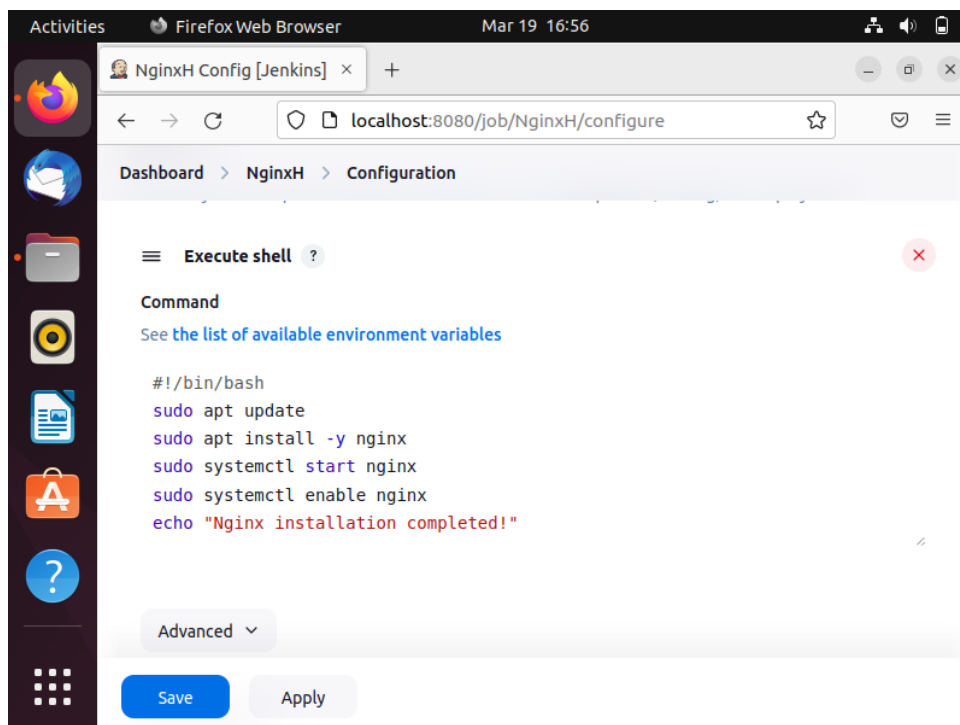


DEVOPS TASK 1

Steps:

1. Open Jenkins and click & click “New Item”
2. Enter a project name and select “Freestyle Project” then click OK.
3. In the General tab, scroll down to the “Build” section.
4. Click “Add build step” → “Execute shell”
5. Enter your shell commands in the provided text box.

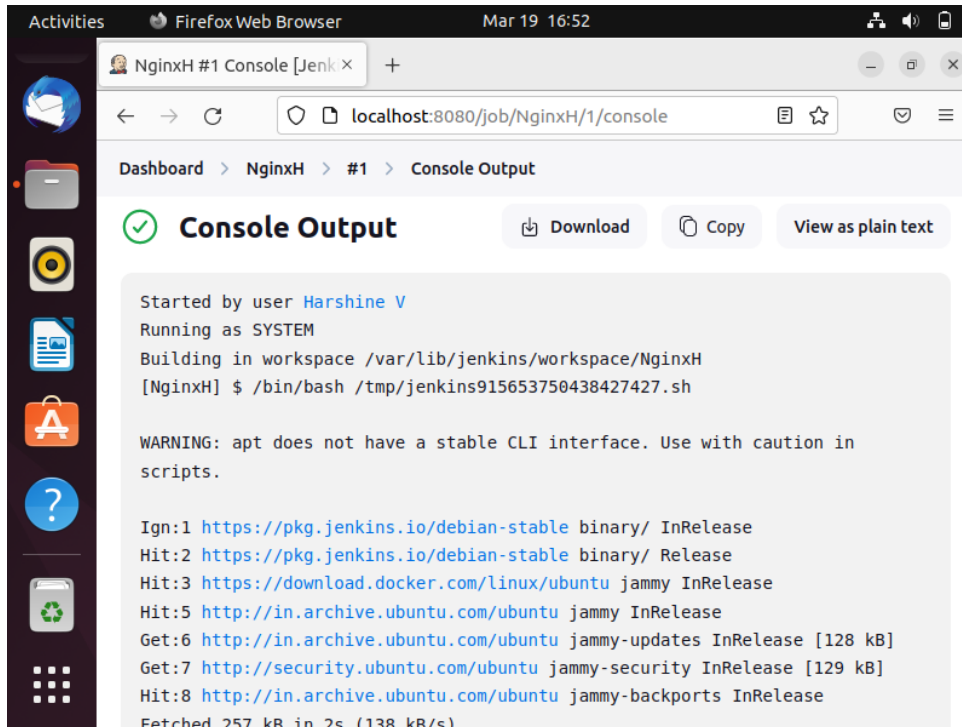
```
#!/bin/bash  
sudo apt update  
sudo apt install -y nginx  
sudo systemctl start nginx  
sudo systemctl enable nginx  
echo "Nginx installation completed!"
```



6. Click “Save” to apply the changes.
7. On the project page, click “Build Now” to start the job.

8. The build status will appear in the Build History (left-side panel).
9. Click on the latest build (#1, #2, etc.) and select “Console Output” to view logs and results.

Output:

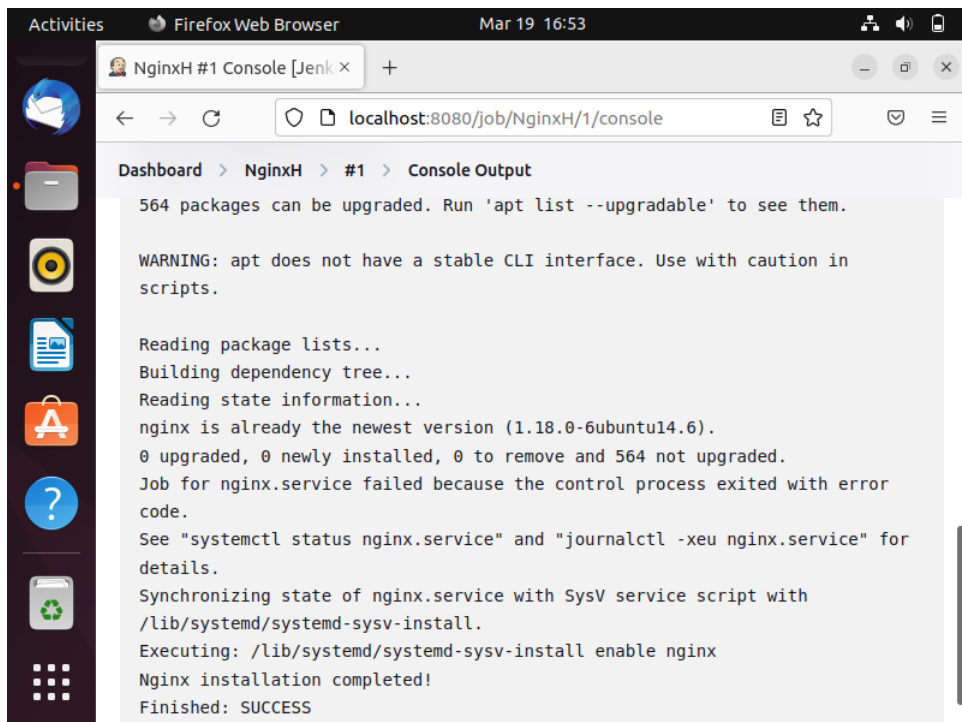


A screenshot of a Firefox web browser window showing the Jenkins console output for a build named 'NginxH #1'. The browser's address bar shows 'localhost:8080/job/NginxH/1/console'. The page title is 'NginxH #1 Console [Jenk x]'. The breadcrumb navigation is 'Dashboard > NginxH > #1 > Console Output'. The console output is displayed in a light gray box with a green checkmark icon and the title 'Console Output'. There are buttons for 'Download', 'Copy', and 'View as plain text'. The output text shows the build starting by user 'Harshine V' as 'SYSTEM', building in the workspace '/var/lib/jenkins/workspace/NginxH', and running a shell command. It then shows a warning about apt's CLI interface and a list of package updates fetched from various sources, totaling 257 kB in 2 seconds.

```
Started by user Harshine V
Running as SYSTEM
Building in workspace /var/lib/jenkins/workspace/NginxH
[NginxH] $ /bin/bash /tmp/jenkins915653750438427427.sh

WARNING: apt does not have a stable CLI interface. Use with caution in
scripts.

Ign:1 https://pkg.jenkins.io/debian-stable binary/ InRelease
Hit:2 https://pkg.jenkins.io/debian-stable binary/ Release
Hit:3 https://download.docker.com/linux/ubuntu jammy InRelease
Hit:5 http://in.archive.ubuntu.com/ubuntu jammy InRelease
Get:6 http://in.archive.ubuntu.com/ubuntu jammy-updates InRelease [128 kB]
Get:7 http://security.ubuntu.com/ubuntu jammy-security InRelease [129 kB]
Hit:8 http://in.archive.ubuntu.com/ubuntu jammy-backports InRelease
Fetched 257 kB in 2s (138 kB/s)
```



A continuation of the Jenkins console output from the previous screenshot. It shows the next steps in the build process: checking for upgradable packages (564 found), reading package lists, building a dependency tree, and reading state information. It reports that nginx is already the newest version (1.18.0-6ubuntu14.6) and that 0 packages were upgraded, 0 newly installed, 0 to be removed, and 564 not upgraded. It then shows a failure for the nginx.service job due to an error code, followed by instructions to check the status and journalctl. Finally, it shows the synchronization of the nginx.service state with the SysV script, enabling it, and completing the installation successfully.

```
564 packages can be upgraded. Run 'apt list --upgradable' to see them.

WARNING: apt does not have a stable CLI interface. Use with caution in
scripts.

Reading package lists...
Building dependency tree...
Reading state information...
nginx is already the newest version (1.18.0-6ubuntu14.6).
0 upgraded, 0 newly installed, 0 to remove and 564 not upgraded.
Job for nginx.service failed because the control process exited with error
code.
See "systemctl status nginx.service" and "journalctl -xeu nginx.service" for
details.
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
```