

TASK 1

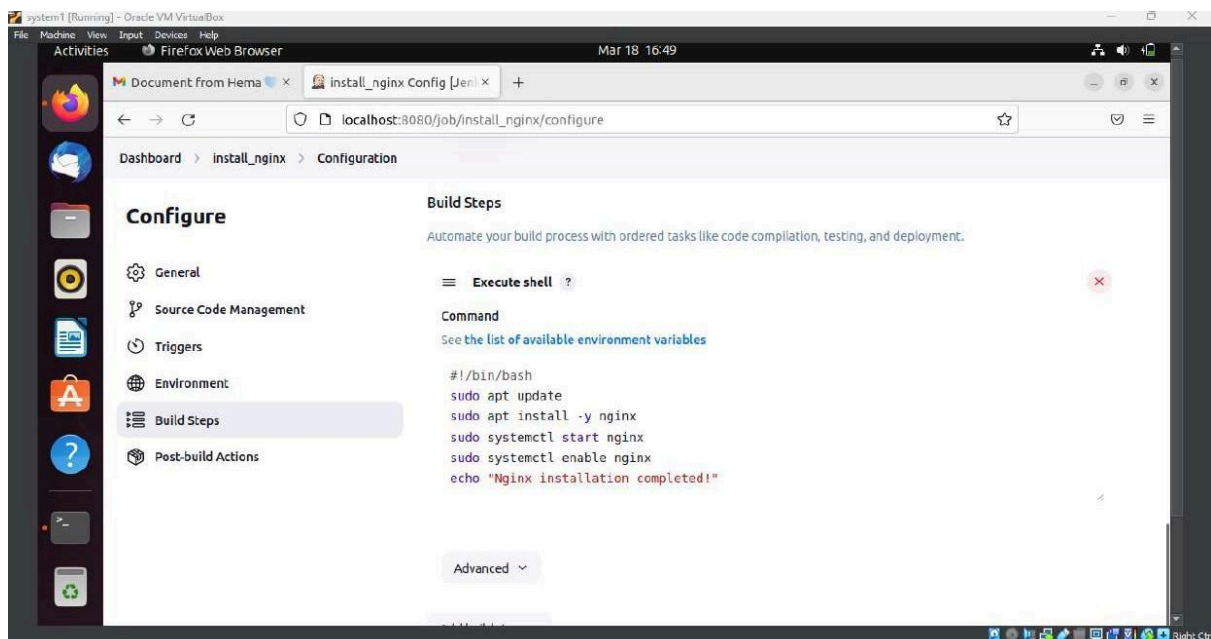
Step 1: Open Jenkins and click "**New Item.**"

Step 2: Enter a project name and select "**Freestyle Project,**" then click **OK.**

Step 3: In the **General** tab, scroll down to the "**Build**" section.

Step 4: Click "**Add build step**" → "**Execute shell.**"

Step 5: Enter your shell commands in the provided text box.



Step 6: Click "**Save**" to apply the changes.

Step 7: On the project page, click "**Build Now**" to start the job.

Step 8: The build status will appear in the **Build History** (left-side panel).

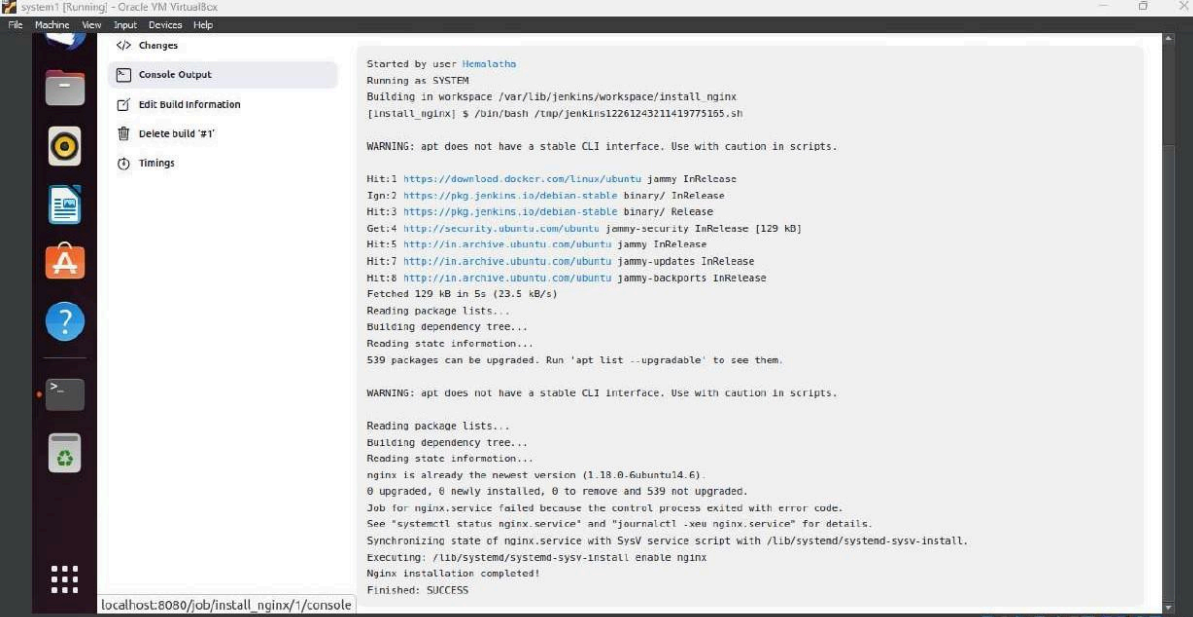
Step 9: Click on the latest build (#1, #2, etc.) and select "**Console Output**" to view logs and results.

TASK 1

Command:

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

Output:



The screenshot shows a Jenkins console output window for a build named 'install nginx'. The output text is as follows:

```
Started by user Hemalatha  
Running as SYSTEM  
Building in workspace /var/lib/jenkins/workspace/install nginx  
[install nginx] $ /bin/bash /tmp/jenkins12261243211419775105.sh  
  
WARNING: apt does not have a stable CLI interface. Use with caution in scripts.  
  
Hit:1 https://download.docker.com/linux/ubuntu jammy InRelease  
Ign:2 https://pkg.jenkins.io/debian-stable binary/ InRelease  
Hit:3 https://pkg.jenkins.io/debian-stable binary/ Release  
Get:4 http://security.ubuntu.com/ubuntu jammy-security InRelease [129 kB]  
Hit:5 http://in.archive.ubuntu.com/ubuntu jammy InRelease  
Hit:7 http://in.archive.ubuntu.com/ubuntu jammy-updates InRelease  
Hit:8 http://in.archive.ubuntu.com/ubuntu jammy-backports InRelease  
Fetched 129 kB in 5s (23.5 kB/s)  
Reading package lists...  
Building dependency tree...  
Reading state information...  
539 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 539 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
```

The interface also shows a sidebar with options like 'Changes', 'Console Output', 'Edit Build Information', 'Delete build #1', and 'Timings'. The status bar at the bottom indicates 'localhost:8080/job/install nginx/1/console'.