

DEVOPS TASK 1

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TASK EXPLANATION:

Create a simple FreeStyle Job To Install Nginx on your server (tools: jenkins, ubuntu vm)

PROCEDURE:

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 result.

SCRIPT:

```
#!/bin/bash
```

```
sudo apt update
```

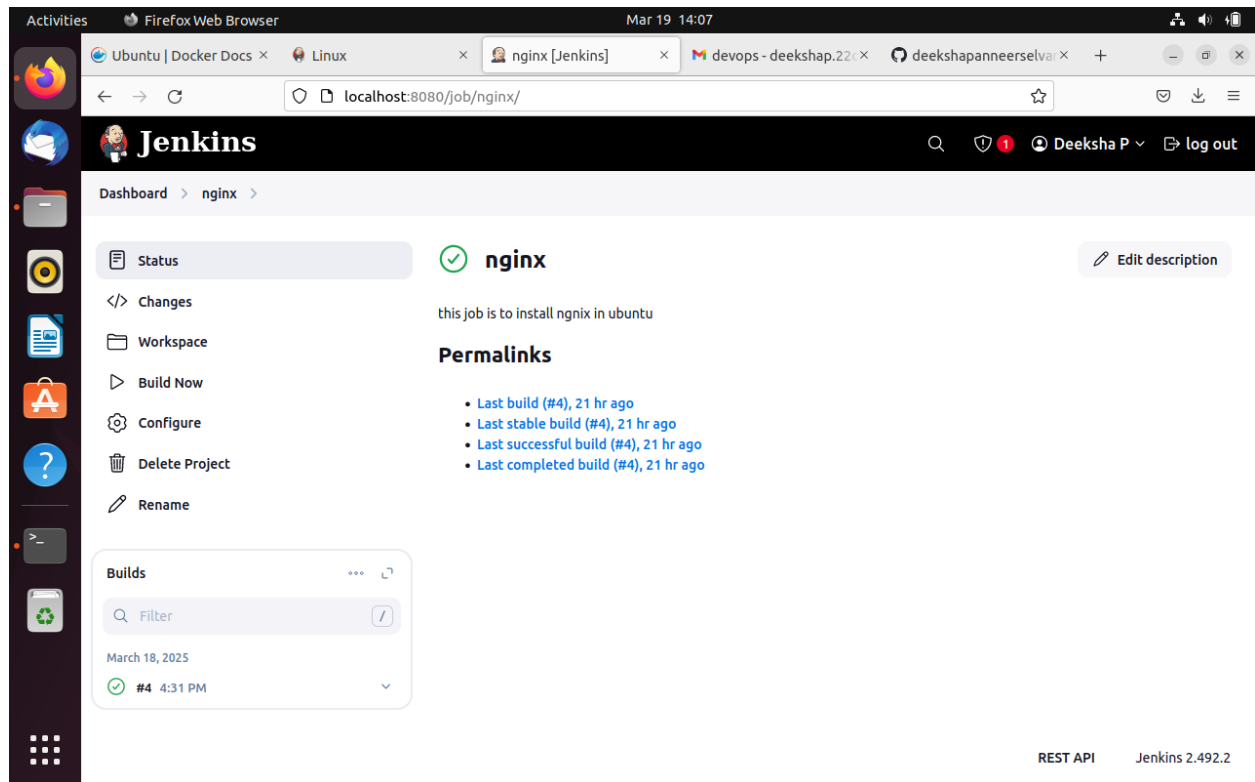
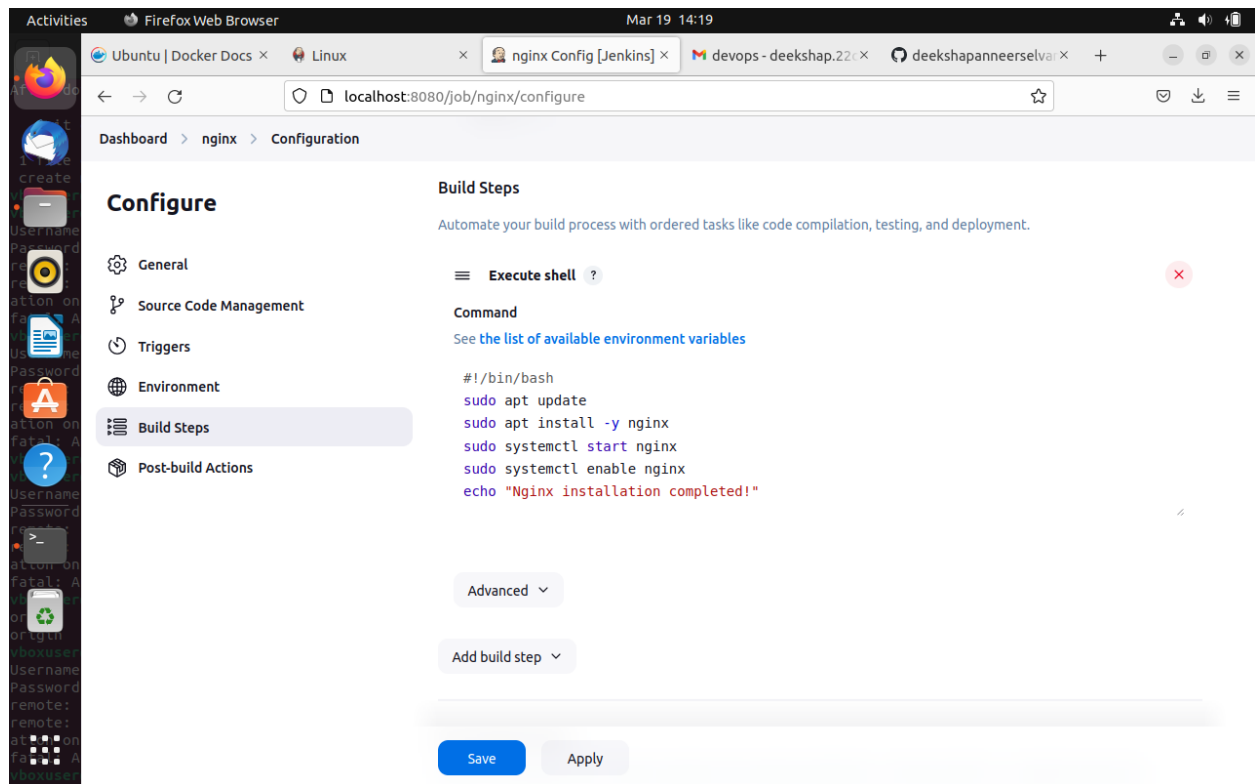
```
sudo apt install -y nginx
```

```
sudo systemctl start nginx
```

```
sudo systemctl enable nginx
```

```
echo "Nginx installation completed!"
```

SCREEN SHOTS:



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localhost:8080/job/nginx/4/console

Jenkins

Dashboard > nginx > #4 > Console Output

Status Console Output Changes Edit Build Information Delete build '#4' Timings

Console Output

Download Copy View as plain text

```
Started by user Deeksha P
Running as SYSTEM
Building in workspace /var/lib/jenkins/workspace/nginx
[nginx] $ /bin/bash /tmp/jenkins2258176187604796209.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:6 http://us.archive.ubuntu.com/ubuntu jammy InRelease
Get:7 http://us.archive.ubuntu.com/ubuntu jammy-updates InRelease [128 kB]
Get:8 http://us.archive.ubuntu.com/ubuntu jammy-backports InRelease [127 kB]
Reading package lists...
E: Release file for http://security.ubuntu.com/ubuntu/dists/jammy-security/InRelease is not
valid yet (invalid for another 3h 55min 55s). Updates for this repository will not be
applied.
E: Release file for http://us.archive.ubuntu.com/ubuntu/dists/jammy-updates/InRelease is not
valid yet (invalid for another 3h 57min 47s). Updates for this repository will not be
applied.
```

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localhost:8080/job/nginx/4/console

Jenkins

Dashboard > nginx > #4 > Console Output

```
debconf: falling back to frontend: Readline
Created symlink /etc/systemd/system/multi-user.target.wants/nginx.service → /lib/systemd
/system/nginx.service.
Could not execute systemctl: at /usr/bin/deb-systemd-invoke line 142.
Setting up libnginx-mod-http-xslt-filter (1.18.0-6ubuntu14.6) ...
Setting up libnginx-mod-http-geoip2 (1.18.0-6ubuntu14.6) ...
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) ...
Not attempting to start NGINX, port 80 is already in use.
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) ...
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
```

REST API Jenkins 2.492.2


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localhost:8080

 Jenkins

Deeksha P | log out

Dashboard

+ New Item

Build History

Project Relationship

Check File Fingerprint

Manage Jenkins

My Views

Build Queue

No builds in the queue.

Build Executor Status

(0 of 2 executors busy)

All +

S	W	Name ↓	Last Success	Last Failure	Last Duration
✓	☀	Hello World	23 hr #1	N/A	0.59 sec
✓	☀	nginx	21 hr #4	N/A	1 min 54 sec
✗	☁	pipeline	N/A	2 hr 9 min #2	1.7 sec

Icon: S M L

Add description

REST API Jenkins 2.492.2