

TASK 1 (Creating a Free style project)

1. Jenkins Job:

- a. Create a "Freestyle project" named "Install_Nginx".
- b. Add an "Execute shell" build step.
- c. Paste the Nginx installation script: `sudo apt update && sudo apt install -y nginx && sudo systemctl start nginx && sudo systemctl enable nginx && echo "Nginx installed!"`.
 - Save the job.

2. Job Execution:

- Run the job via "Build Now".
- Monitor the "Console Output" for success or errors.

3. Sudo Fix (If Needed):

- On the Ubuntu server, edit `/etc/sudoers` with `sudo visudo`.
- Add `jenkins ALL=(ALL) NOPASSWD: ALL` (or restrict sudo commands).
- Save and re-run the Jenkins job.

4. Verification:

- On the Ubuntu server, check Nginx status: `systemctl status nginx`.
- Confirm it's running.

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localhost:8080/job/Task 1 Devops/2/console

Jenkins

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Status Changes Console Output Edit Build Information Delete build '#2' Timings Previous Build

Console Output

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```
Started by user Dhanush Prasaath MR
Running as SYSTEM
Building in workspace /var/lib/jenkins/workspace/Task 1 Devops
[Task 1 Devops] $ /bin/sh -xe /tmp/jenkins4364154918129572910.sh
+ sudo apt update

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

Hit:1 http://in.archive.ubuntu.com/ubuntu jammy InRelease
Hit:2 https://download.docker.com/linux/ubuntu focal InRelease
Hit:3 http://security.ubuntu.com/ubuntu jammy-security InRelease
Get:4 http://in.archive.ubuntu.com/ubuntu jammy-updates InRelease [128 kB]
Ign:5 https://pkg.jenkins.io/debian-stable binary/ InRelease
Hit:6 https://pkg.jenkins.io/debian-stable binary/ Release
Hit:8 http://in.archive.ubuntu.com/ubuntu jammy-backports InRelease
Get:9 http://in.archive.ubuntu.com/ubuntu jammy-updates/main amd64 DEP-11 Metadata [103 kB]
Get:10 http://in.archive.ubuntu.com/ubuntu jammy-updates/restricted amd64 DEP-11 Metadata [212 B]
Get:11 http://in.archive.ubuntu.com/ubuntu jammy-updates/universe amd64 DEP-11 Metadata [359 kB]
Get:12 http://in.archive.ubuntu.com/ubuntu jammy-updates/multiverse amd64 DEP-11 Metadata [940 B]
Fetched 591 kB in 17s (34.7 kB/s)
Reading package lists...
Building dependency tree...
Reading state information...
558 packages can be upgraded. Run 'apt list --upgradable' to see them.
W: https://download.docker.com/linux/ubuntu/dists/focal/InRelease: Key is stored in legacy trusted.gpg keyring (/etc/apt/trusted.gpg), see the DEPRECATION section in apt-key(8) for details.
+ sudo apt install nginx -y

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

Reading package lists...
Building dependency tree...
Reading state information...
The following additional packages will be installed:
  libnginx-mod-http-geoip2 libnginx-mod-http-image-filter
  libnginx-mod-http-xslt-filter libnginx-mod-mail libnginx-mod-stream
  libnginx-mod-stream-geoip2 nginx-common nginx-core
Suggested packages:
```

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localhost:8080/job/Task 1 Devops/2/console

Jenkins

Dashboard > Task 1 Devops > #2 > Console Output

```
Preparing to unpack .../3-libnginx-mod-http-xslt-filter_1.18.0-6ubuntu14.6_amd64.deb ...
Unpacking libnginx-mod-http-xslt-filter (1.18.0-6ubuntu14.6) ...
Selecting previously unselected package libnginx-mod-mail.
Preparing to unpack .../4-libnginx-mod-mail_1.18.0-6ubuntu14.6_amd64.deb ...
Unpacking libnginx-mod-mail (1.18.0-6ubuntu14.6) ...
Selecting previously unselected package libnginx-mod-stream.
Preparing to unpack .../5-libnginx-mod-stream_1.18.0-6ubuntu14.6_amd64.deb ...
Unpacking libnginx-mod-stream (1.18.0-6ubuntu14.6) ...
Selecting previously unselected package libnginx-mod-stream-geoip2.
Preparing to unpack .../6-libnginx-mod-stream-geoip2_1.18.0-6ubuntu14.6_amd64.deb ...
Unpacking libnginx-mod-stream-geoip2 (1.18.0-6ubuntu14.6) ...
Selecting previously unselected package nginx-core.
Preparing to unpack .../7-nginx-core_1.18.0-6ubuntu14.6_amd64.deb ...
Unpacking nginx-core (1.18.0-6ubuntu14.6) ...
Selecting previously unselected package nginx.
Preparing to unpack .../8-nginx_1.18.0-6ubuntu14.6_amd64.deb ...
Unpacking nginx (1.18.0-6ubuntu14.6) ...
Setting up nginx-common (1.18.0-6ubuntu14.6) ...
debconf: unable to initialize frontend: Dialog
debconf: (Dialog frontend will not work on a dumb terminal, an emacs shell buffer, or without a controlling terminal.)
debconf: falling back to frontend: Readline
Created symlink /etc/systemd/system/multi-user.target.wants/nginx.service ~ /lib/systemd/system/nginx.service.
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) ...
* 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) ...
+ sudo systemctl start nginx
+ sudo systemctl enable nginx
Synchronizing state of nginx.service with SysV service script with /lib/systemd/systemd-sysv-install.
Executing: /lib/systemd/systemd-sysv-install enable nginx
Finished: SUCCESS
```