

# **DEVOPS**

## **ASSIGNMENT 1**

### **STEPS:**

1. Update Package List:
  - Run the following command to update the package list:
  - `sudo apt update`
2. Install Nginx:
  - Install Nginx using the following command:
  - `sudo apt-get install -y nginx`
3. Verify Installation:
  - Check if Nginx is running with the command:
  - `sudo service nginx status`
4. Create Jenkins Freestyle Job:
  - In Jenkins, click New Item and create a Freestyle project
5. Configure Job:
  - Add a build step of type Execute shell.
  - In the shell command box, enter:
  - `sudo apt update`
  - `sudo apt-get install -y nginx`
6. Save and Run Job:
  - Save the job and click Build Now to run it.
7. Check Console Output:
  - After the job completes, view the Console Output to confirm the successful installation of Nginx.

## OUTPUT:

The screenshot shows the Jenkins web interface. The top navigation bar includes the Jenkins logo, a search icon, notification icons, a user profile for 'Pragalya K K', and a 'log out' button. The breadcrumb trail is 'Dashboard > Assignment\_1 > #1 > Console Output'. On the left sidebar, the 'Console Output' tab is selected, with other options like 'Status', 'Changes', 'Edit Build Information', 'Delete build #1', and 'Timings'. The main console area displays the following output:

```
Started by user Pragalya K K
Running as SYSTEM
Building in workspace /var/jenkins_home/workspace/Assignment_1
[Assignment_1] $ /bin/sh -xe /tmp/jenkins1203265318010749952.sh
+ sudo apt update

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

Hit:1 http://deb.debian.org/debian bookworm InRelease
Get:2 https://download.docker.com/linux/debian bookworm InRelease [43.3 kB]
Get:3 http://deb.debian.org/debian bookworm-updates InRelease [55.4 kB]
Get:4 https://download.docker.com/linux/debian bookworm/stable amd64 Packages [37.1 kB]
Get:5 http://deb.debian.org/debian-security bookworm-security InRelease [48.0 kB]
Fetched 184 kB in 1s (137 kB/s)
Reading package lists...
Building dependency tree...
Reading state information...
10 packages can be upgraded. Run 'apt list --upgradable' to see them.
+ sudo apt-get install -y nginx
Reading package lists...
Building dependency tree...
Reading state information...
The following additional packages will be installed:
```

The bottom of the image shows a Windows taskbar with various application icons and a system clock showing 23:14 on 20-03-2025.

This screenshot shows the continuation of the Jenkins console output. The breadcrumb trail remains 'Dashboard > Assignment\_1 > #1 > Console Output'. The main console area displays the following output:

```
debconf: unable to initialize frontend: Readline
debconf: (This frontend requires a controlling tty.)
debconf: falling back to frontend: Teletype
Setting up libatm1:amd64 (1:2.5.1-4+b2) ...
Setting up libcap2-bin (1:2.66-4) ...
Setting up libmnl0:amd64 (1:0.4-3) ...
Setting up libxtables12:amd64 (1:8.9-2) ...
Setting up libelf1:amd64 (0.188-2.1) ...
Setting up libpam-cap:amd64 (1:2.66-4) ...
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
debconf: unable to initialize frontend: Readline
debconf: (This frontend requires a controlling tty.)
debconf: falling back to frontend: Teletype
Setting up libbpf1:amd64 (1:1.1.0-1) ...
Setting up libtirpc3:amd64 (1.3.3+ds-1) ...
Setting up iproute2 (6.1.0-3) ...
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
debconf: unable to initialize frontend: Readline
debconf: (This frontend requires a controlling tty.)
debconf: falling back to frontend: Teletype
Setting up nginx (1.22.1-9+deb12u1) ...
invoke-rc.d: could not determine current runlevel
invoke-rc.d: policy-rc.d denied execution of start.
Processing triggers for libc-bin (2.36-9+deb12u9) ...
Finished: SUCCESS
```

The bottom of the image shows a Windows taskbar with various application icons and a system clock showing 23:14 on 20-03-2025.