NAME: SOWBARANIGA K

ROLL NO: 22CSR202

STEPS:

- 1. Install Jenkins using the following commands.
 - sudo wget -O /usr/share/keyrings/jenkins-keyring.asc \ https://pkg.jenkins.io/debian-stable/jenkins.io-2023.key
 - echo "deb [signed-by=/usr/share/keyrings/jenkins-keyring.asc]" \
 https://pkg.jenkins.io/debian-stable binary/ | sudo tee \
 /etc/apt/sources.list.d/jenkins.list > /dev/null
 - sudo apt-get update
 - sudo apt install fontconfig openidk-17-jre
 - sudo apt-get install jenkins
- 2. Log in to Jenkins.
- 3. Create a Freestyle project by clicking on "New Item," entering an item name (e.g., "Sample"), selecting "Freestyle Project," and clicking "OK."
- 4. Configure the job to install NGINX by clicking "Add Build Step," then selecting "Execute Shell" to run shell commands.
- 5. Save the job and click "Build Now" to execute it.
- 6. You can view the output in the "Console Output" section.
- 7. Verify the NGINX installation by checking your browser.

#IP Address

```
root@Ubuntu:~# ip addr

1: lo: <LOOPBACK,UP,LOWER_UP> mtu 65536 qdisc noqueue state UNKNOWN group defau
lt qlen 1000
    link/loopback 00:00:00:00:00:00 brd 00:00:00:00:00:00
    inet 127.0.0.1/8 scope host lo
        valid_lft forever preferred_lft forever
inet6 ::1/128 scope host
        valid_lft forever preferred_lft forever

2: enp0s3: <BROADCAST,MULTICAST,UP,LOWER_UP> mtu 1500 qdisc fq_codel state UP g
roup default qlen 1000
    link/ether 08:00:27:d6:98:b2 brd ff:ff:ff:ff:
    inet 10.0.2.15/24 brd 10.0.2.255 scope global dynamic noprefixroute enp0s3
        valid_lft 85780sec preferred_lft 85780sec
    inet6 fe80::162f:82f9:fd14:3918/64 scope link noprefixroute
    valid_lft forever preferred_lft forever

3: docker0: <NO-CARRIER,BROADCAST,MULTICAST,UP> mtu 1500 qdisc noqueue state DO
WN group default
    link/ether 02:42:e7:1a:06:1a brd ff:ff:ff:ff:ff
    inet 172.17.0.1/16 brd 172.17.255.255 scope global docker0
    valid_lft forever preferred_lft forever
root@Ubuntu:~#
```

Execute Shell (Commands)

Execute shell

Command

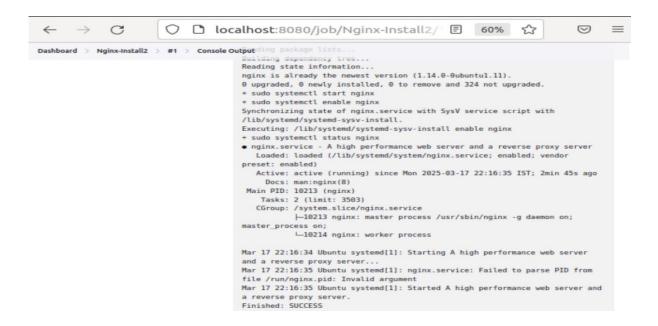
See the list of available environment variables

```
sudo apt update -y
sudo apt install nginx -y
sudo systemctl start nginx
sudo systemctl enable nginx
sudo systemctl status nginx
```

Apply

Console Output

```
Dashboard > Nginx > #1 > Console Output
                                                                     О Сору
                                                                                 View as plain text
Console Output
                                                    Download
  Started by user Sowbaraniga K
  Running as SYSTEM
  Building in workspace /var/lib/jenkins/workspace/Nginx
 [Nginx] $ /bin/sh -xe /tmp/jenkins17342376955621848366.sh
+ sudo apt update -y
  WARNING: apt does not have a stable CLI interface. Use with caution in scripts.
  Hit:1 http://in.archive.ubuntu.com/ubuntu jammy InRelease
  Get:2 http://in.archive.ubuntu.com/ubuntu jammy-updates InRelease [128 kB]
  Get:3 http://security.ubuntu.com/ubuntu jammy-security InRelease [129 kB]
  Ign:4 https://pkg.jenkins.io/debian-stable binary/ InRelease
  Hit:5 https://pkg.jenkins.io/debian-stable binary/ Release
Get:7 http://in.archive.ubuntu.com/ubuntu jammy-backports InRelease [127 kB]
  Get:8 http://security.ubuntu.com/ubuntu jammy-security/main amd64 DEP-11 Metadata [43.1
  Get:9 http://in.archive.ubuntu.com/ubuntu jammy-updates/main amd64 Packages [2,387 k8]
                                  com/ubuntu jammy-security/restricted amd64 DEP-11
```



Welcome Page

