

# 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.**"

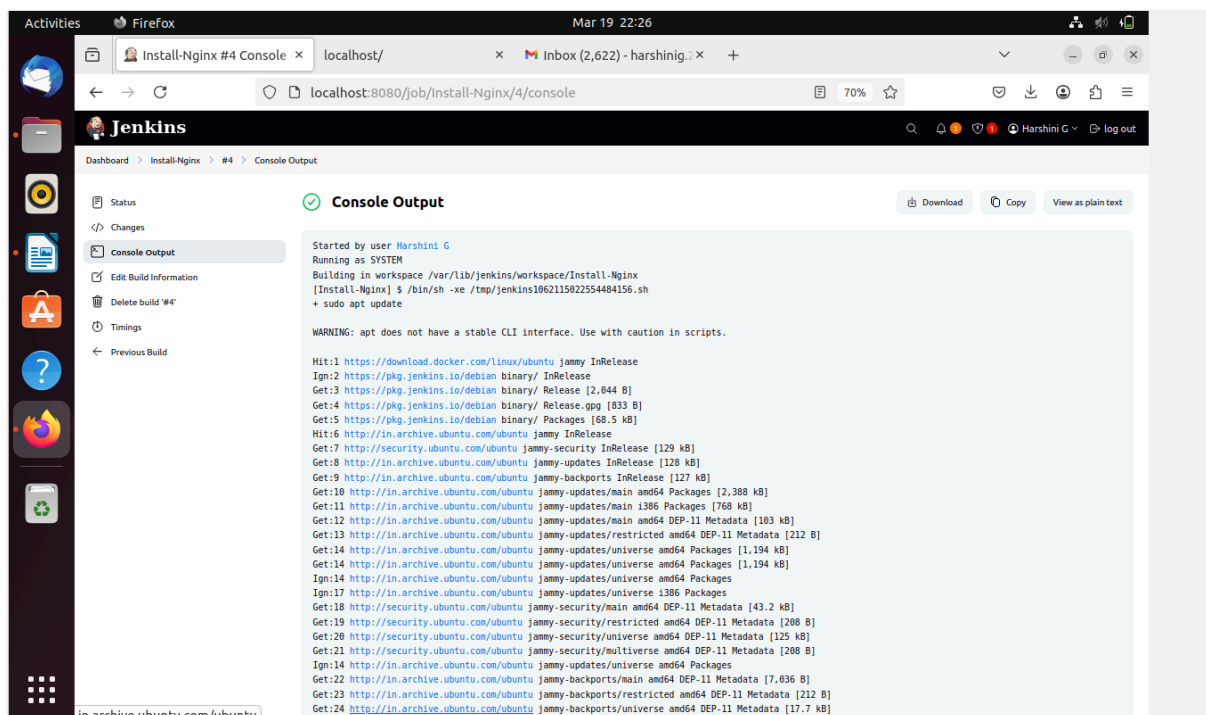
**Step 5:** Enter your shell commands in the provided text box.

**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.



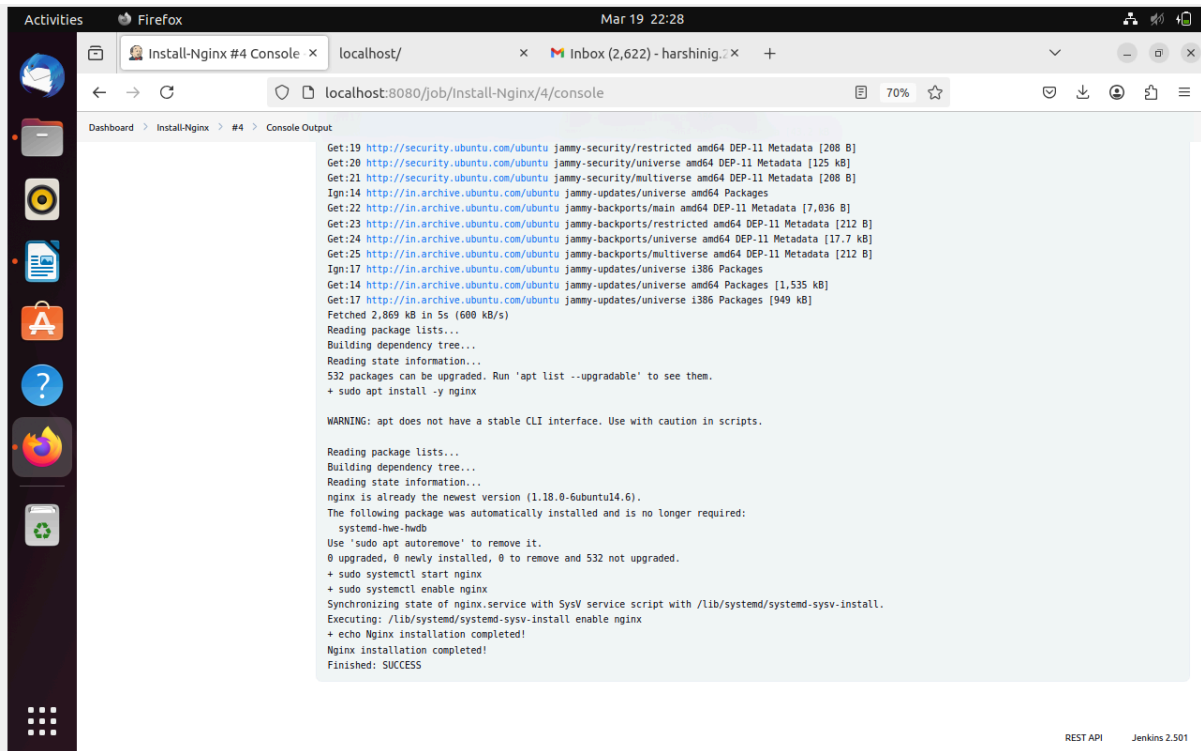
The screenshot shows the Jenkins web interface in a Firefox browser window. The address bar displays the URL `localhost:8080/job/install-nginx/4/console`. The Jenkins dashboard on the left shows the 'Install-Nginx #4' job selected. The main panel displays the 'Console Output' for this build, which is a shell script execution log. The log starts with 'Started by user Harshini G' and 'Running as SYSTEM'. It shows the command `[Install-Nginx] $ /bin/sh -xe /tmp/jenkins1062115022554484156.sh` followed by `+ sudo apt update`. A warning message states: 'WARNING: apt does not have a stable CLI interface. Use with caution in scripts.' The log then lists several package updates from the Ubuntu archive, including 'jammy InRelease', 'jammy-security InRelease', 'jammy-updates InRelease', and various 'amd64 Packages' and 'Metadata' files. The output ends with the URL `in.archive.ubuntu.com/ubuntu`.

```
Started by user Harshini G
Running as SYSTEM
Building in workspace /var/lib/jenkins/workspace/Install-Nginx
[Install-Nginx] $ /bin/sh -xe /tmp/jenkins1062115022554484156.sh
+ sudo apt update

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 binary/ InRelease
Get:3 https://pkg.jenkins.io/debian binary/ Release [2,044 B]
Get:4 https://pkg.jenkins.io/debian binary/ Release.gpg [833 B]
Get:5 https://pkg.jenkins.io/debian binary/ Packages [68.5 kB]
Hit:6 http://in.archive.ubuntu.com/ubuntu jammy InRelease
Get:7 http://security.ubuntu.com/ubuntu jammy-security InRelease [129 kB]
Get:8 http://in.archive.ubuntu.com/ubuntu jammy-updates InRelease [128 kB]
Get:9 http://in.archive.ubuntu.com/ubuntu jammy-backports InRelease [127 kB]
Get:10 http://in.archive.ubuntu.com/ubuntu jammy-updates/main amd64 Packages [2,389 kB]
Get:11 http://in.archive.ubuntu.com/ubuntu jammy-updates/main i386 Packages [768 kB]
Get:12 http://in.archive.ubuntu.com/ubuntu jammy-updates/main amd64 DEP-11 Metadata [103 kB]
Get:13 http://in.archive.ubuntu.com/ubuntu jammy-updates/restricted amd64 DEP-11 Metadata [212 B]
Get:14 http://in.archive.ubuntu.com/ubuntu jammy-updates/universe amd64 Packages [1,194 kB]
Get:14 http://in.archive.ubuntu.com/ubuntu jammy-updates/universe amd64 Packages [1,194 kB]
Ign:14 http://in.archive.ubuntu.com/ubuntu jammy-updates/universe amd64 Packages
Get:14 http://in.archive.ubuntu.com/ubuntu jammy-updates/universe amd64 Packages
Ign:17 http://in.archive.ubuntu.com/ubuntu jammy-updates/universe i386 Packages
Get:18 http://security.ubuntu.com/ubuntu jammy-security/main amd64 DEP-11 Metadata [43.2 kB]
Get:19 http://security.ubuntu.com/ubuntu jammy-security/restricted amd64 DEP-11 Metadata [208 B]
Get:20 http://security.ubuntu.com/ubuntu jammy-security/universe amd64 DEP-11 Metadata [125 kB]
Get:21 http://security.ubuntu.com/ubuntu jammy-security/multiverse amd64 DEP-11 Metadata [208 B]
Ign:14 http://in.archive.ubuntu.com/ubuntu jammy-updates/universe amd64 Packages
Get:22 http://in.archive.ubuntu.com/ubuntu jammy-backports/main amd64 DEP-11 Metadata [7,036 B]
Get:23 http://in.archive.ubuntu.com/ubuntu jammy-backports/restricted amd64 DEP-11 Metadata [212 B]
Get:24 http://in.archive.ubuntu.com/ubuntu jammy-backports/universe amd64 DEP-11 Metadata [17.7 kB]
```

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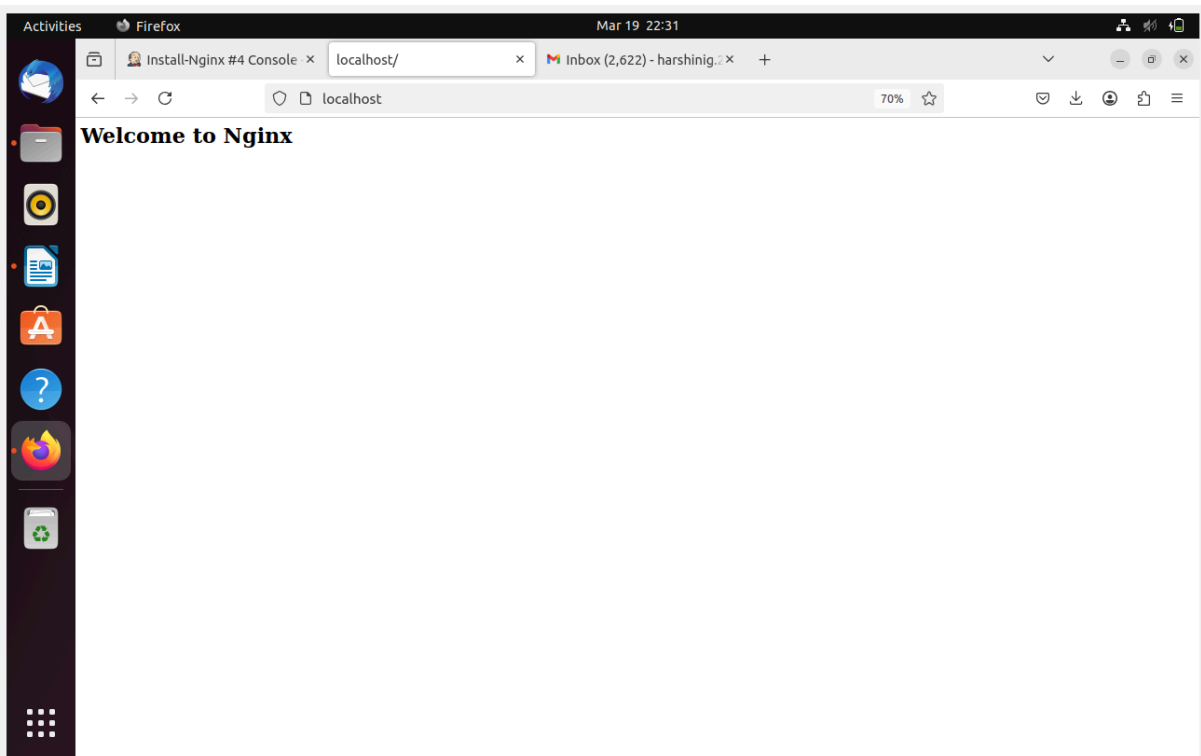


```
Get:19 http://security.ubuntu.com/ubuntu jammy-security/restricted amd64 DEP-11 Metadata [208 B]
Get:20 http://security.ubuntu.com/ubuntu jammy-security/universe amd64 DEP-11 Metadata [125 kB]
Get:21 http://security.ubuntu.com/ubuntu jammy-security/multiverse amd64 DEP-11 Metadata [208 B]
Ign:14 http://in.archive.ubuntu.com/ubuntu jammy-updates/universe amd64 Packages
Get:22 http://in.archive.ubuntu.com/ubuntu jammy-backports/main amd64 DEP-11 Metadata [7,636 B]
Get:23 http://in.archive.ubuntu.com/ubuntu jammy-backports/restricted amd64 DEP-11 Metadata [212 B]
Get:24 http://in.archive.ubuntu.com/ubuntu jammy-backports/universe amd64 DEP-11 Metadata [17.7 kB]
Get:25 http://in.archive.ubuntu.com/ubuntu jammy-backports/multiverse amd64 DEP-11 Metadata [212 B]
Ign:17 http://in.archive.ubuntu.com/ubuntu jammy-updates/universe i386 Packages
Get:14 http://in.archive.ubuntu.com/ubuntu jammy-updates/universe amd64 Packages [1,535 kB]
Get:17 http://in.archive.ubuntu.com/ubuntu jammy-updates/universe i386 Packages [949 kB]
Fetched 2,869 kB in 5s (600 kB/s)
Reading package lists...
Building dependency tree...
Reading state information...
532 packages can be upgraded. Run 'apt list --upgradable' to see them.
+ sudo apt install -y nginx

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).
The following package was automatically installed and is no longer required:
  systemd-hwe-hwdb
Use 'sudo apt autoremove' to remove it.
0 upgraded, 0 newly installed, 0 to remove and 532 not upgraded.
+ 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
+ echo Nginx installation completed!
Nginx installation completed!
Finished: SUCCESS
```

REST API Jenkins 2.501



Command:

# TASK 1

```
echo "Hello, World!"
```

## Command:

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

```
sudo apt update
```

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

```
sudo systemctl start nginx
```

```
sudo systemctl enable nginx
```

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