

# 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.**"

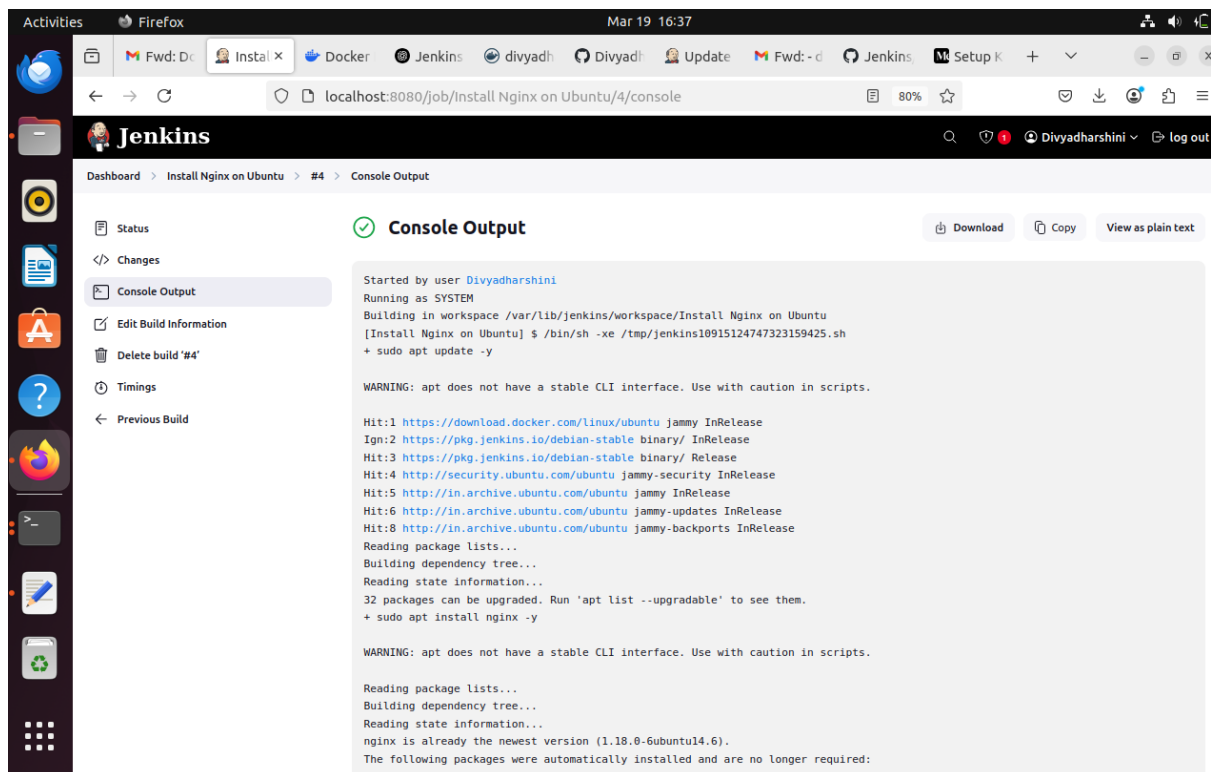
**Step 5:** Enter your shell commands in the provided text box.

**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).

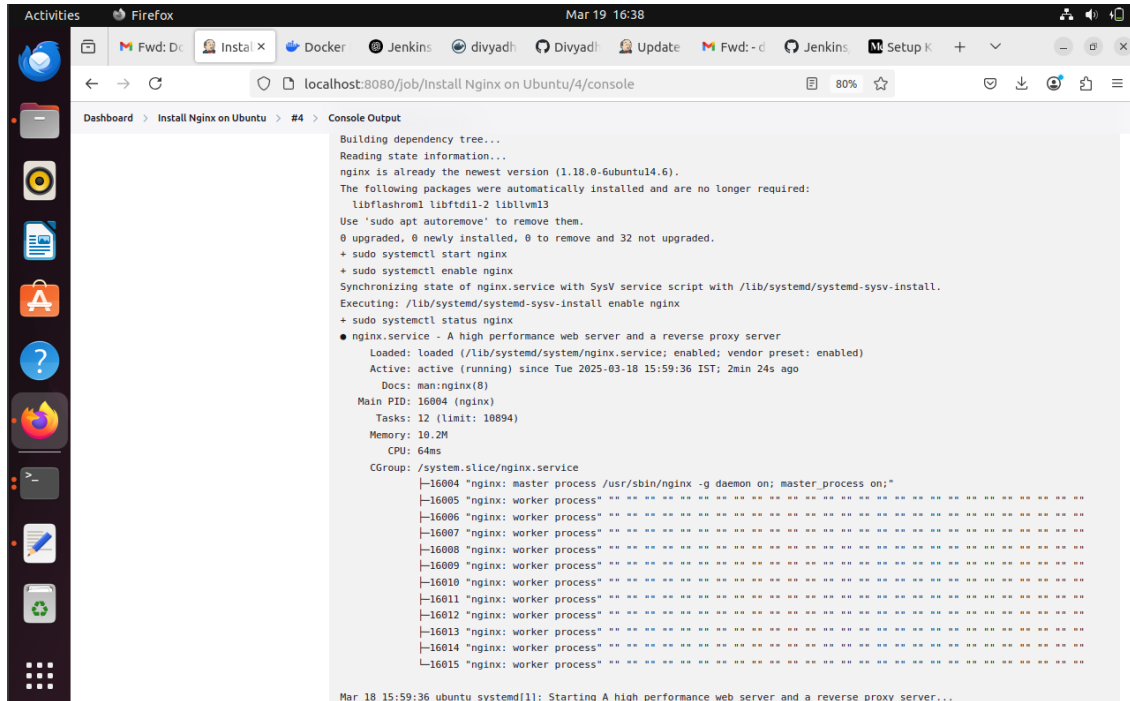
**Step 9:** Click on the latest build (#1, #2, etc.) and select "**Console Output**" to view logs and results.



# TASK 1

## Command:

echo "Hello, World!"

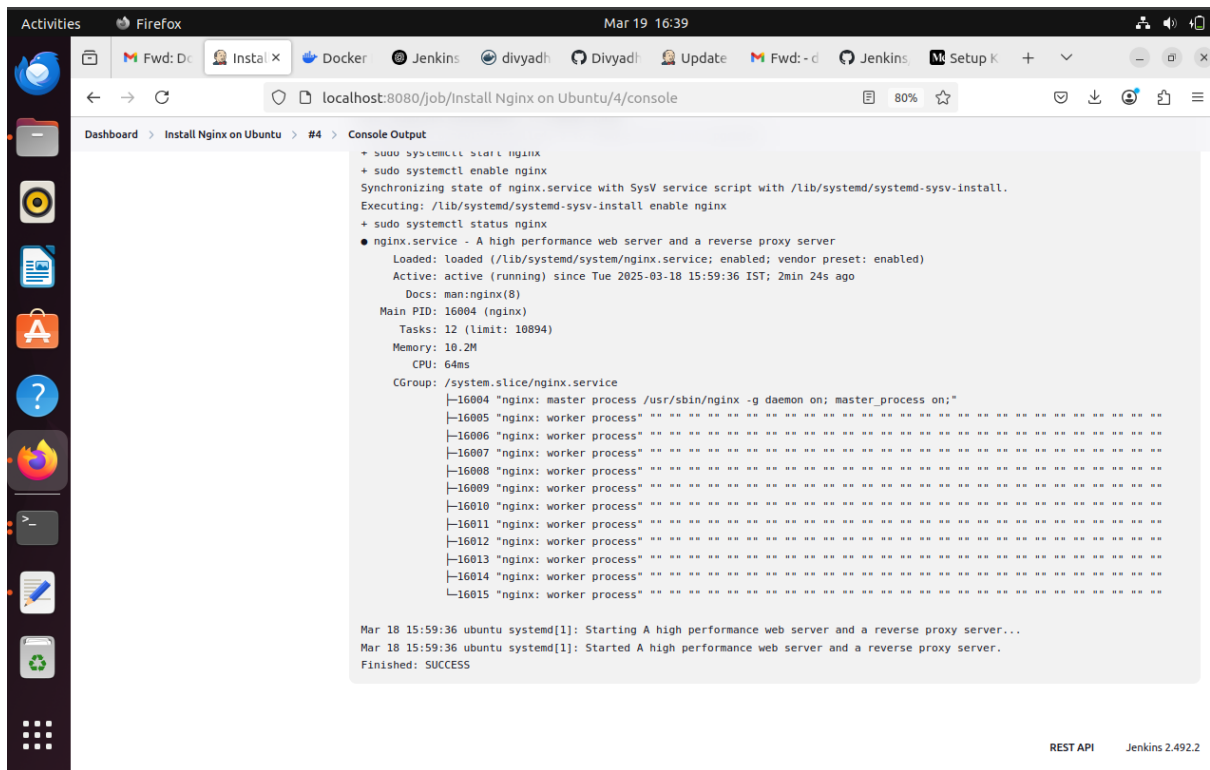


The screenshot shows a web browser window with the address bar displaying 'localhost:8080/job/Install Nginx on Ubuntu/4/console'. The page content is titled 'Console Output' and shows the following text:

```
Building dependency tree...
Reading state information...
nginx is already the newest version (1.18.0-6ubuntu14.6).
The following packages were automatically installed and are no longer required:
  libflashrom1 libftd11-2 liblvm13
Use 'sudo apt autoremove' to remove them.
0 upgraded, 0 newly installed, 0 to remove and 32 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
+ sudo systemctl status nginx
● nginx.service - A high performance web server and a reverse proxy server
   Loaded: loaded (/lib/systemd/system/nginx.service; enabled; vendor preset: enabled)
   Active: active (running) since Tue 2025-03-18 15:59:36 IST; 2min 24s ago
     Docs: man:nginx(8)
  Main PID: 16004 (nginx)
    Tasks: 12 (limit: 10894)
   Memory: 10.2M
      CPU: 64ms
  CGroup: /system.slice/nginx.service
          └─16004 "nginx: master process /usr/sbin/nginx -g daemon on; master_process on;"
             └─16005 "nginx: worker process"
                └─16006 "nginx: worker process"
                   └─16007 "nginx: worker process"
                      └─16008 "nginx: worker process"
                         └─16009 "nginx: worker process"
                            └─16010 "nginx: worker process"
                               └─16011 "nginx: worker process"
                                  └─16012 "nginx: worker process"
                                     └─16013 "nginx: worker process"
                                        └─16014 "nginx: worker process"
                                           └─16015 "nginx: worker process"
```

Mar 18 15:59:36 ubuntu systemd[1]: Starting A high performance web server and a reverse proxy server...

# TASK 1



The screenshot shows a Jenkins job titled "Install Nginx on Ubuntu" with a console output window open. The output displays the following commands and their results:

```
+ 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
+ sudo systemctl status nginx
● nginx.service - A high performance web server and a reverse proxy server
   Loaded: loaded (/lib/systemd/system/nginx.service; enabled; vendor preset: enabled)
   Active: active (running) since Tue 2025-03-18 15:59:36 IST; 2min 24s ago
     Docs: man:nginx(8)
   Main PID: 16004 (nginx)
    Tasks: 12 (limit: 10894)
   Memory: 10.2M
      CPU: 64ms
   CGroup: /system.slice/nginx.service
           └─16004 "nginx: master process /usr/sbin/nginx -g daemon on; master_process on;"
             └─16005 "nginx: worker process"
             └─16006 "nginx: worker process"
             └─16007 "nginx: worker process"
             └─16008 "nginx: worker process"
             └─16009 "nginx: worker process"
             └─16010 "nginx: worker process"
             └─16011 "nginx: worker process"
             └─16012 "nginx: worker process"
             └─16013 "nginx: worker process"
             └─16014 "nginx: worker process"
             └─16015 "nginx: worker process"

Mar 18 15:59:36 ubuntu systemd[1]: Starting A high performance web server and a reverse proxy server...
Mar 18 15:59:36 ubuntu systemd[1]: Started A high performance web server and a reverse proxy server.
Finished: SUCCESS
```

REST API Jenkins 2.492.2

## Command:

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

```
sudo apt update
```

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

```
sudo systemctl start nginx
```

```
sudo systemctl enable nginx
```

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