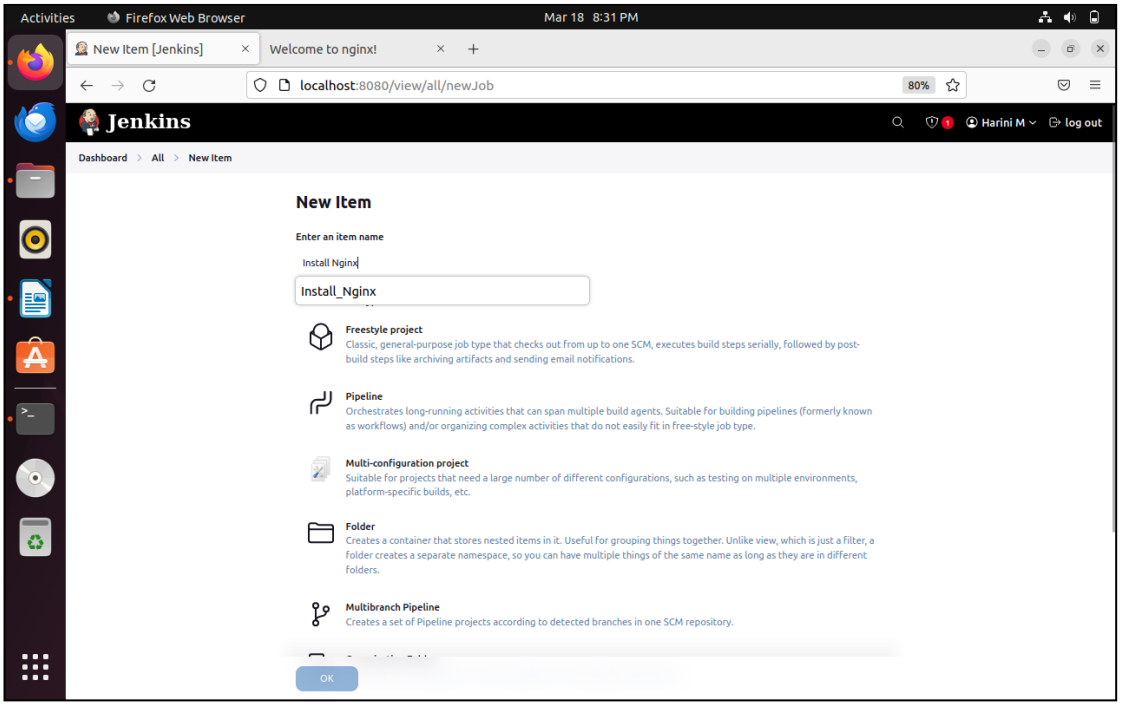
TASK 1 : CREATE A SIMPLE FREESTYLE JOB TO INSTALL NGINX ON YOUR SERVER

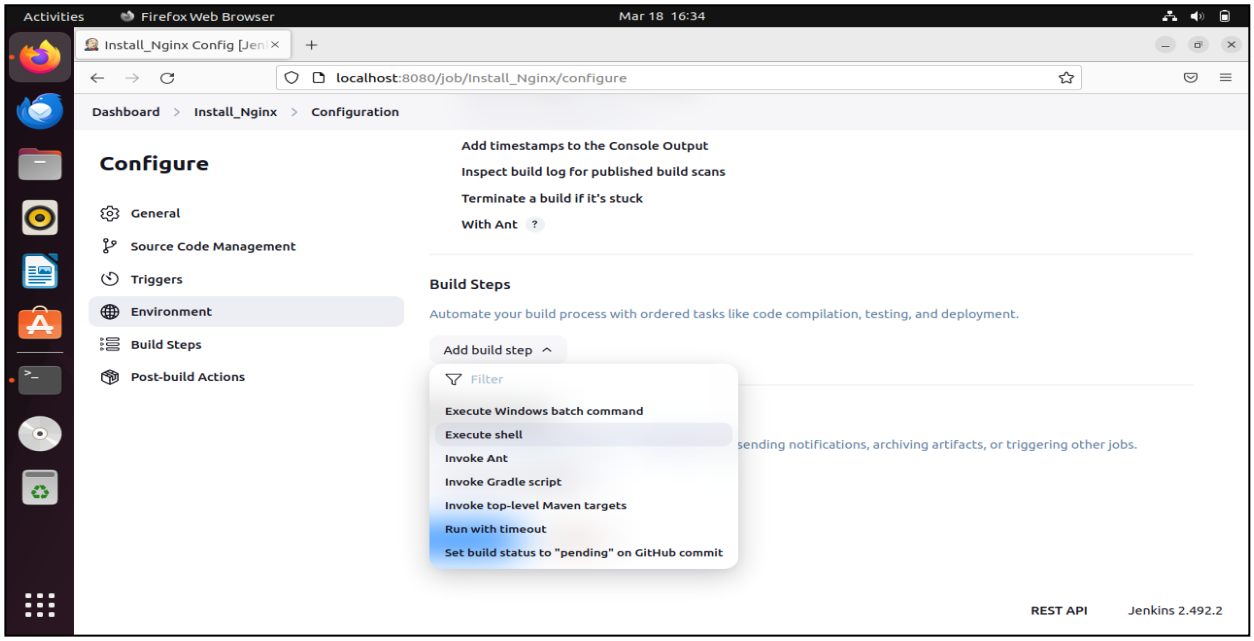
1. **Login to Jenkins UI**
2. **Click on "New Item"**
3. **Enter the Job Name** (e.g., `Install_Nginx`)
4. **Select "Freestyle Project"** and click **OK**

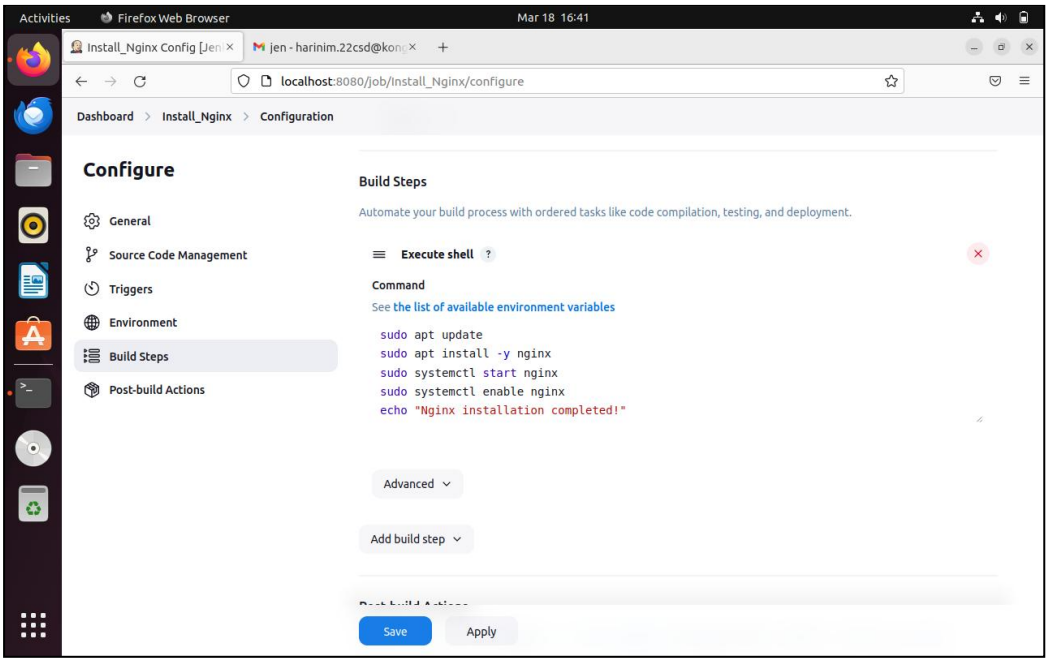


- Scroll down to **"Build Steps"**
- Click **"Add Build Step" → "Execute shell"**
- **Write the following script:**

```
#!/bin/bash
sudo apt update
sudo apt install -y nginx
sudo systemctl start nginx
sudo systemctl enable nginx
echo "Nginx installation completed!
```

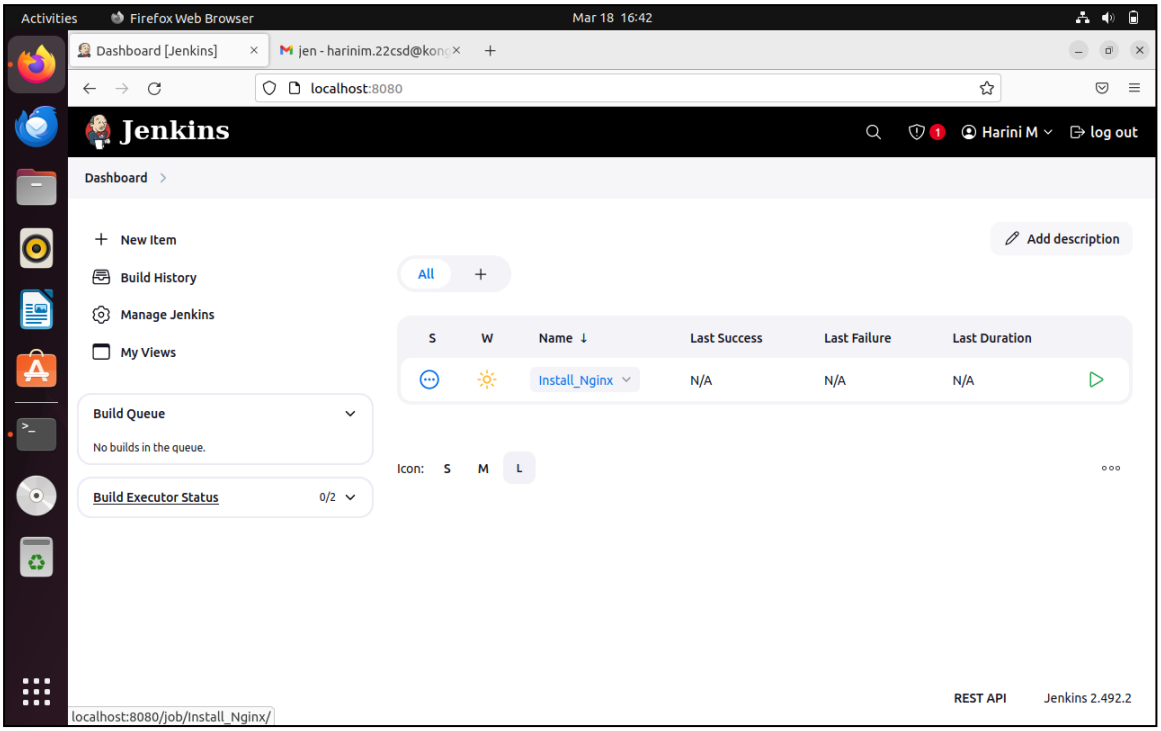
- Click **"Save"**

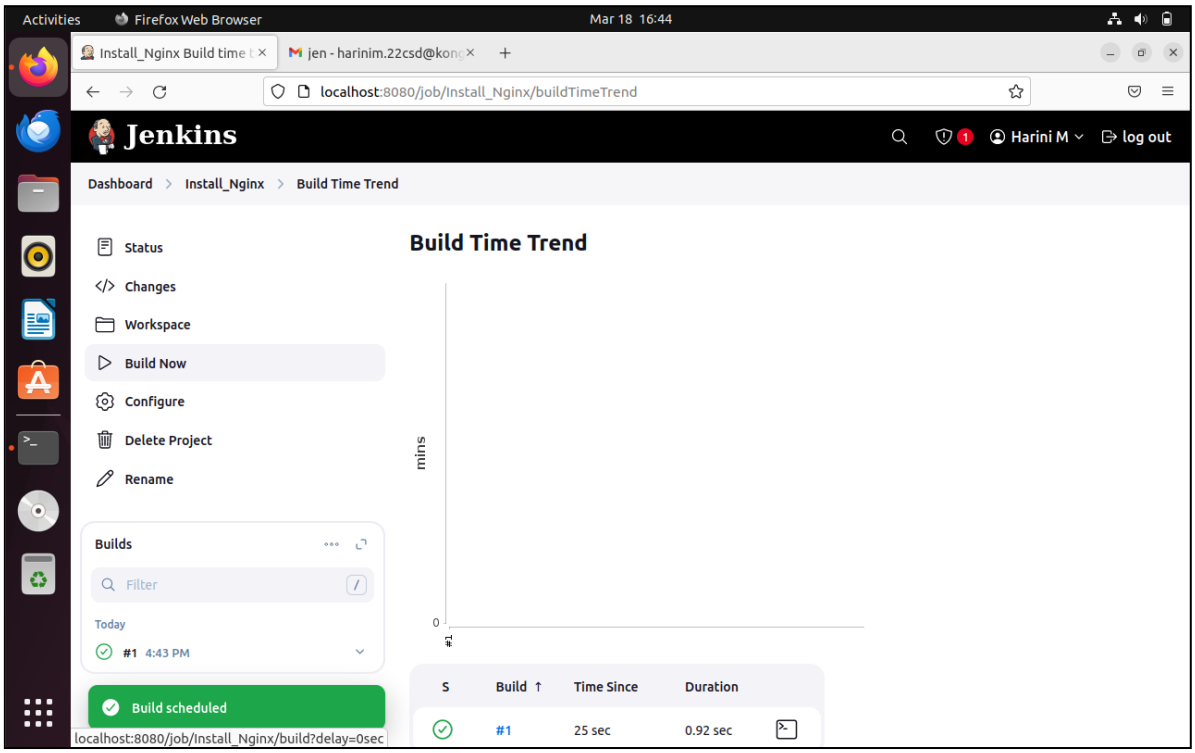


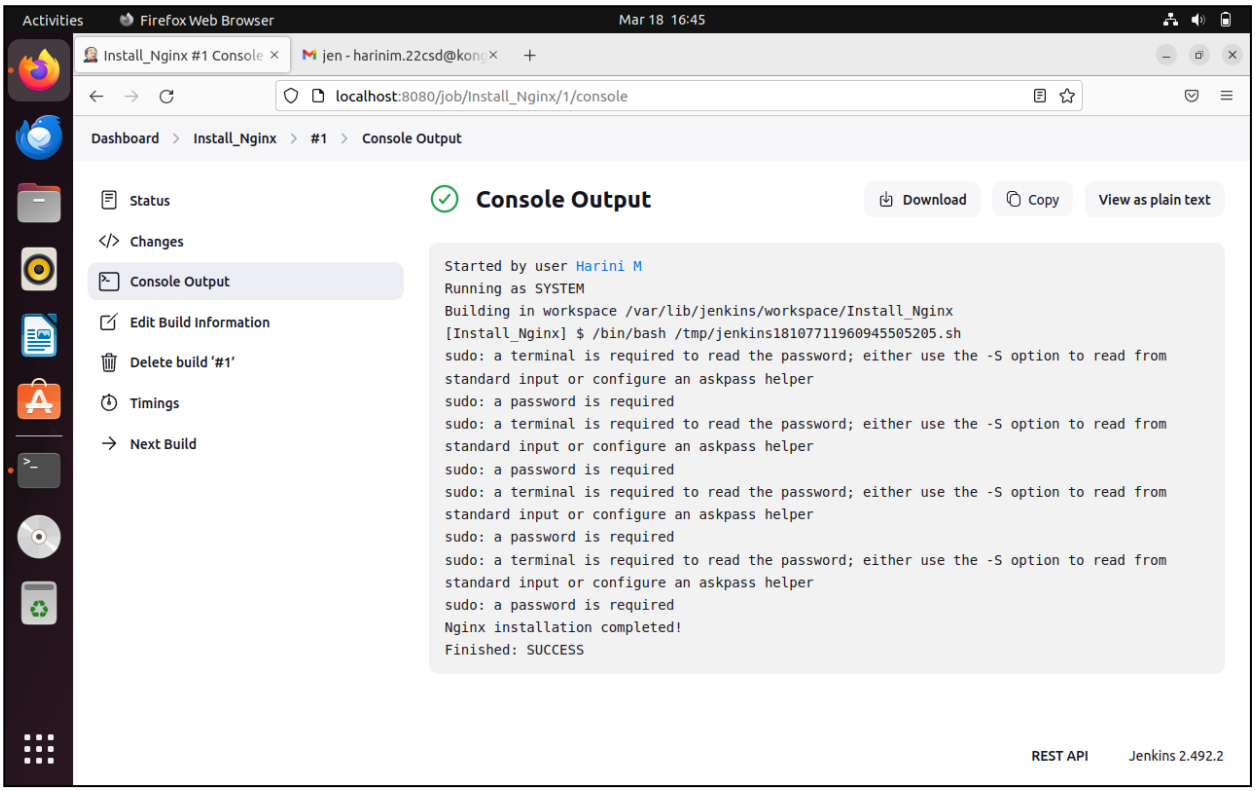


5: Run the Job

1. Go to **Jenkins Dashboard → Install_Nginx job**
2. Click **"Build Now"**
3. Monitor the logs in **"Console Output"**
    - If you see any **sudo password errors**, verify the sudoers file configuration.


Activities
Firefox Web Browser
Mar 18 16:42
Dashboard [Jenkins]
jen - harinim.22csd@kon
localhost:8080
Jenkins
Harini M
log out
Dashboard
New Item
Build History
Manage Jenkins
My Views
Add description
All
S
W
Name ↓
Last Success
Last Failure
Last Duration
Install_Nginx
N/A
N/A
N/A
Build Queue
No builds in the queue.
Build Executor Status
0/2
Icon: S M L
REST API
Jenkins 2.492.2
localhost:8080/job/Install_Nginx/

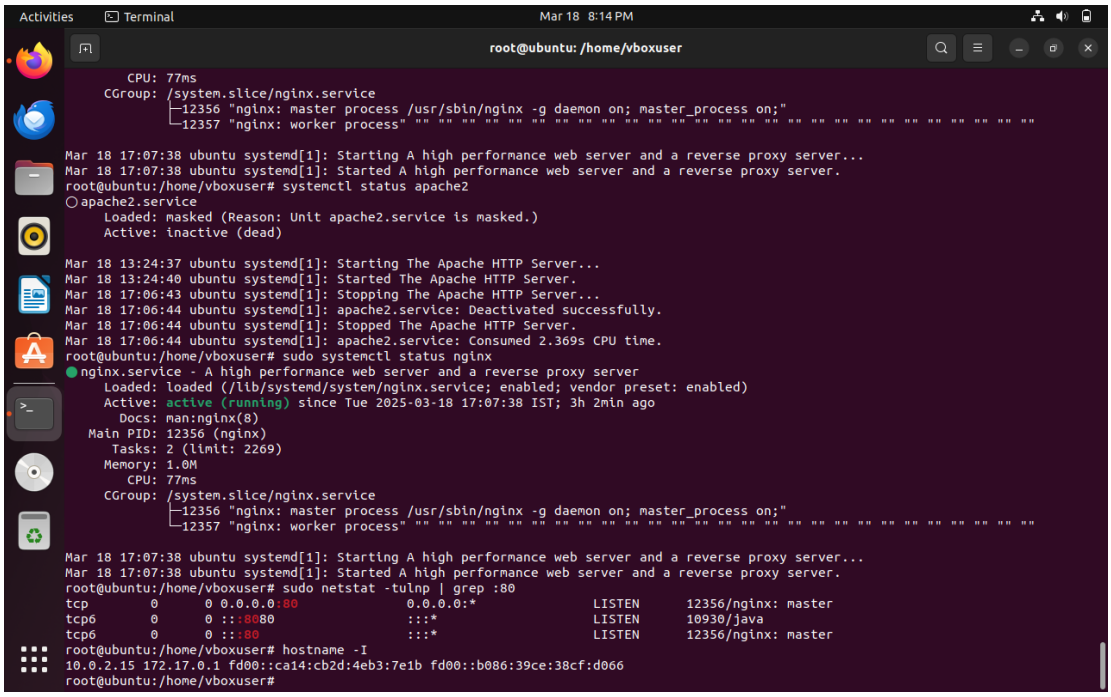

Activities
Firefox Web Browser
Mar 18 16:44
Install_Nginx Build time t
jen - harinim.22csd@kon
localhost:8080/job/Install_Nginx/buildTimeTrend
Jenkins
Harini M
log out
Dashboard
Install_Nginx
Build Time Trend
Status
Changes
Workspace
Build Now
Configure
Delete Project
Rename
Builds
Filter
Today
#1 4:43 PM
Build scheduled
Build Time Trend
mins
0
#1
S
Build ↑
Time Since
Duration
#1
25 sec
0.92 sec
localhost:8080/job/Install_Nginx/build?delay=0sec

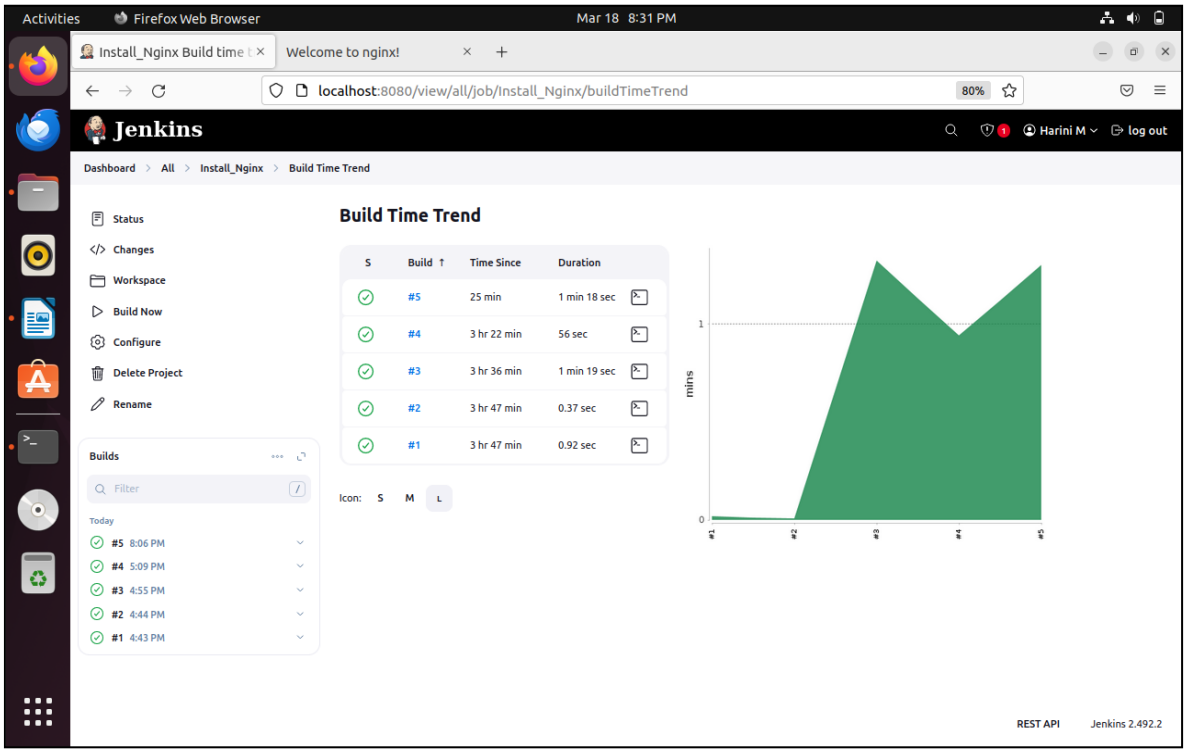


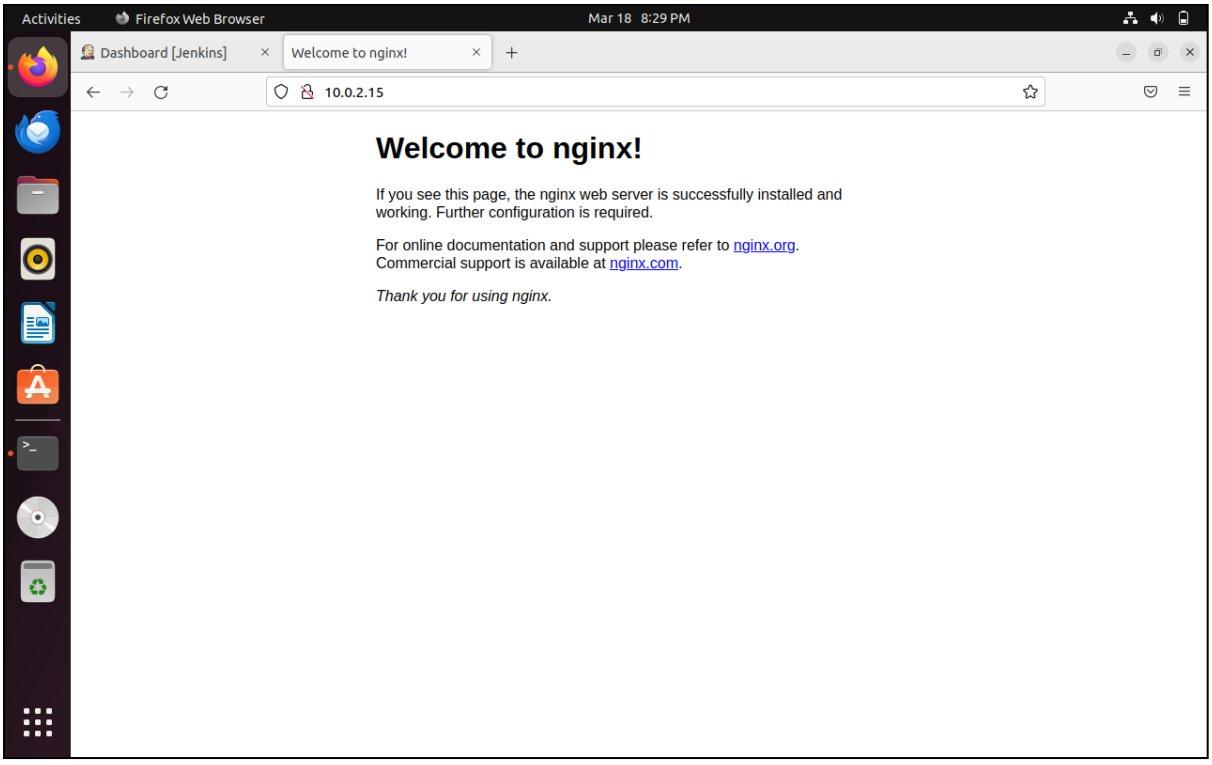
Verify Nginx Installation on Ubuntu Server

1. **Check Nginx status** and also **Verify by opening the browser**

- Go to http://10.0.2.15 **by finding the server id using the command hostname -I**
- You should see the **Nginx welcome page**




Activities
Firefox Web Browser
Mar 18 8:31 PM
Install_Nginx Build time
Welcome to nginx!
localhost:8080/view/all/job/Install_Nginx/buildTimeTrend
80%
Jenkins
Harini M
log out
Dashboard
All
Install_Nginx
Build Time Trend
Status
Changes
Workspace
Build Now
Configure
Delete Project
Rename
Builds
Filter
Today
#5 8:06 PM
#4 5:09 PM
#3 4:55 PM
#2 4:44 PM
#1 4:43 PM
Build Time Trend
S
Build
Time Since
Duration
#5 25 min 1 min 18 sec
#4 3 hr 22 min 56 sec
#3 3 hr 36 min 1 min 19 sec
#2 3 hr 47 min 0.37 sec
#1 3 hr 47 min 0.92 sec
Icon: S M L
mins
1
0
REST API
Jenkins 2.492.2


Activities
Firefox Web Browser
Mar 18 8:29 PM
Dashboard [Jenkins]
Welcome to nginx!
10.0.2.15
Welcome to nginx!
If you see this page, the nginx web server is successfully installed and working. Further configuration is required.
For online documentation and support please refer to nginx.org.
Commercial support is available at nginx.com.
Thank you for using nginx.