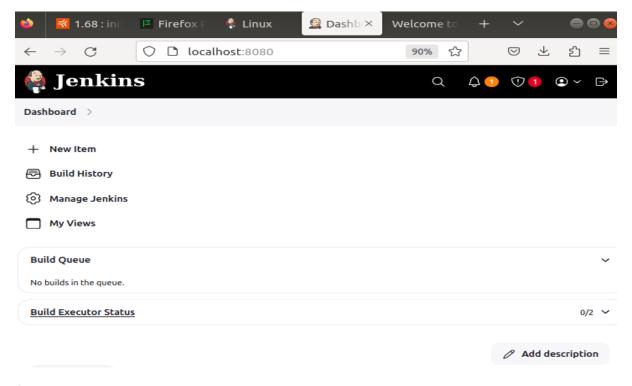
Step 1:

Install java and then install jenkins

```
vishal@LAPTOP-U458V051:~$ sudo apt update
sudo apt install fontconfig openjdk-17-jre
java -version
openjdk version "17.0.13" 2024-10-15
OpenJDK Runtime Environment (build 17.0.13+11-Debian-2)
OpenJDK 64-Bit Server VM (build 17.0.13+11-Debian-2, mixed mode, sharing)
[sudo] password for vishal:
Get: http://security.ubuntu.com/ubuntu noble-security InRelease [126 kB]
Hit: http://archive.ubuntu.com/ubuntu noble InRelease
Get: http://archive.ubuntu.com/ubuntu noble-security/main amd64 Packages [670 kB]
Get: http://security.ubuntu.com/ubuntu noble-security/main amd64 Packages [670 kB]
Get: http://security.ubuntu.com/ubuntu noble-security/main Translation-en [130 kB]
Get: http://security.ubuntu.com/ubuntu noble-security/main amd64 Components [8964 B]
Get: http://security.ubuntu.com/ubuntu noble-security/main amd64 Components [8964 B]
Get: http://security.ubuntu.com/ubuntu noble-security/main amd64 Packages [126 kB]
Get: http://security.ubuntu.com/ubuntu noble-security/main amd64 Packages [130 kB]
Get: http://security.ubuntu.com/ubuntu noble-security/miverse amd64 Packages [130 kB]
Get: http://security.ubuntu.com/ubuntu noble-security/universe amd64 Packages [130 kB]
Get: http://security.ubuntu.com/ubuntu noble-security/universe amd64 Components [52.0 kB]
Get: http://security.ubuntu.com/ubuntu noble-security/universe amd64 Components [52.0 kB]
Get: http://security.ubuntu.com/ubuntu noble-security/restricted amd64 Packages [726 kB]
Get: http://security.ubuntu.com/ubuntu noble-security/restricted amd64 Packages [726 kB]
Get: http://security.ubuntu.com/ubuntu noble-security/restricted amd64 Components [20 B]
Get: http://security.ubuntu.com/ubuntu noble-security/multiverse amd64 Components [20 B]
Get: http://security.ubuntu.com/ubuntu noble-security/multiverse
```

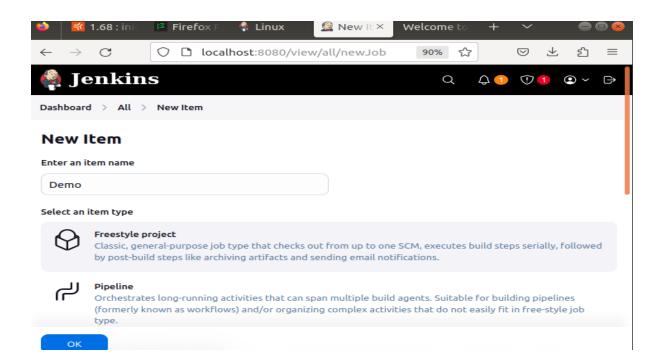
Step 2:

Go to localhost:8080 and open the jenkins and install the suggested plugins



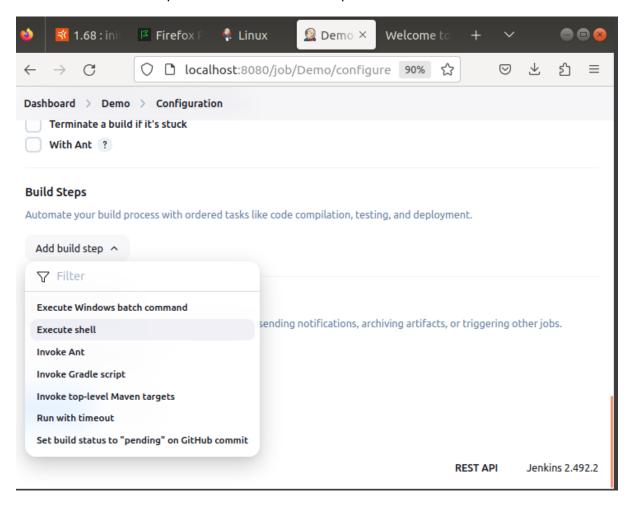
Step 3:

Click on create a new item and enter a item name and select freestyle project and click on ok.



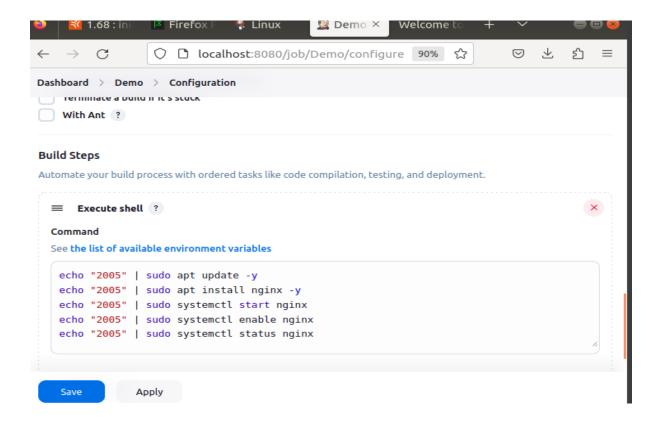
Step 4:

Now click on build steps and click add build steps and select execute shell



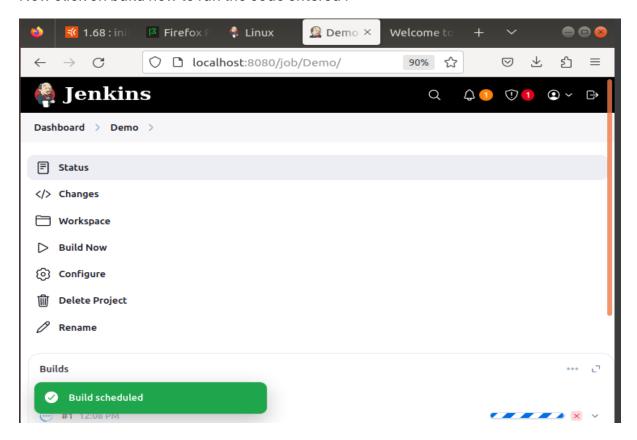
Step 5:

Now on the execute shell box enter the code for installing the nginx and save it.



Step 6:

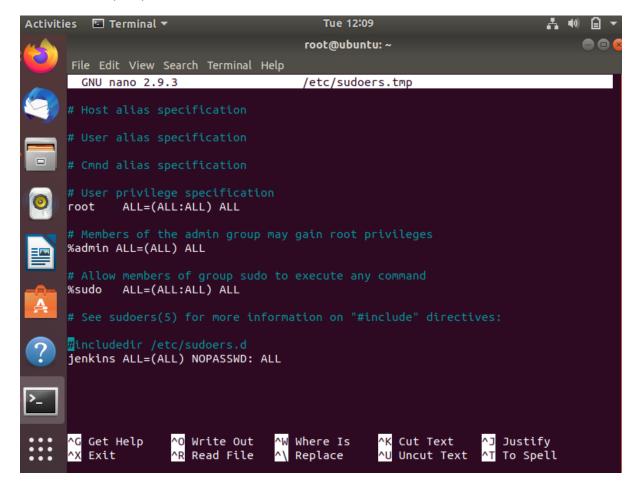
Now click on build now to run the code entered.



Step 7:

Now in the terminal give visudo and enter

Jenkins ALL =(ALL) NOPASSWD: ALL



Step 8:

Now restart the Jenkins server

```
oot@ubuntu:~# systemctl restart jenkins
```

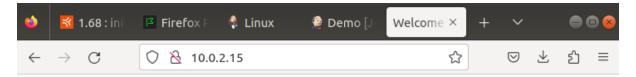
Step 9:

Now give ip addr and check for the ip address and paste it in the web server.

```
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 08:00:27:19:fe:ee brd ff:ff:ff:ff
    inet 10.0.2.15/24 brd 10.0.2.255 scope global dynamic noprefixroute enp0s3
        valid_lft 80312sec preferred_lft 80312sec
    inet6 fe80::ed0b:5614:742:b33b/64 scope link noprefixroute
        valid_lft forever preferred_lft forever
```

Step 10:

This page is displaying the nginx page after the server is restarted



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 $\underline{nginx.org}$. Commercial support is available at $\underline{nginx.com}$.

Thank you for using nginx.