## **TASK 1 -NGINX USING JENKINS**

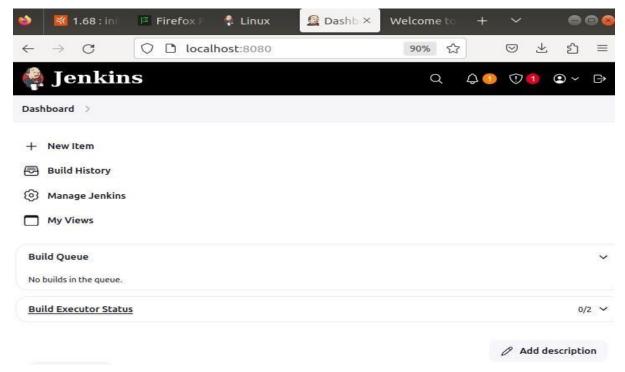
## Step 1: Installing Java and Jenkins

Install java jdk version-17 and then install jenkins

```
vishal@LAPTOP-U45BV051:-$ 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:1 http://security.ubuntu.com/ubuntu noble-security InRelease [126 kB]
Hit:2 http://archive.ubuntu.com/ubuntu noble InRelease
Get:3 http://archive.ubuntu.com/ubuntu noble-security/main amd64 Packages [670 kB]
Get:4 http://security.ubuntu.com/ubuntu noble-security/main amd64 Packages [670 kB]
Get:5 http://security.ubuntu.com/ubuntu noble-security/main Translation-en [130 kB]
Get:6 http://security.ubuntu.com/ubuntu noble-security/main amd64 Components [8964 B]
Get:8 http://security.ubuntu.com/ubuntu noble-security/main amd64 Packages [819 kB]
Get:9 http://security.ubuntu.com/ubuntu noble-security/main amd64 Packages [819 kB]
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Get:14 http://security.ubuntu.com/ubuntu noble-security/universe amd64 Components [820 kB]
Get:15 http://security.ubuntu.com/ubuntu noble-security/restricted amd64 Packages [726 kB]
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```

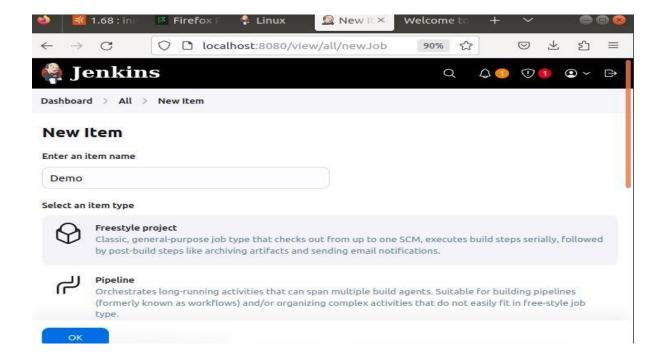
## **Step 2: Opening Jenkins**

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



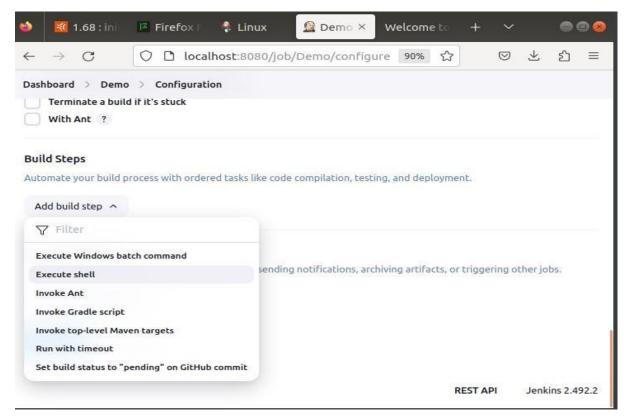
Step 3: New Item

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

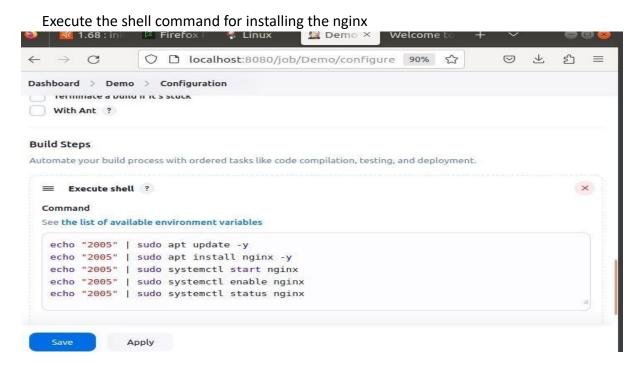


## **Step 4:Build Steps**

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

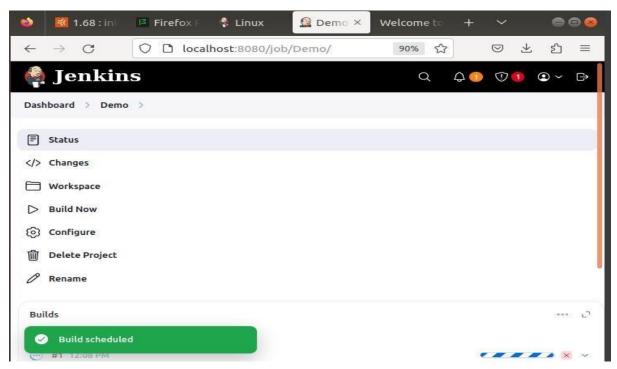


## **Step 5: Executing Command**



### **Step 6: Build Now**

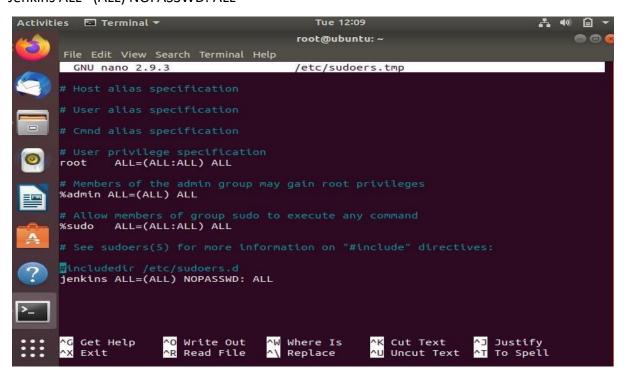
Now click on build now to run the code entered .



#### Step 7: Visudo

Now in the terminal give visudo and enter

Jenkins ALL =(ALL) NOPASSWD: ALL



#### Step 8: Restart

Now restart the Jenkins server

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

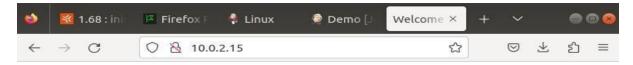
#### **Step 9:IP Address**

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: Output

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 <u>nginx.org</u>. Commercial support is available at nginx.com.

Thank you for using nginx.