

## Project - 7

### Project Title: Project-DevOps-Jenkins-Installation and Configuration on Linux

1. Launch an LINUX EC2 & Instance Installed Java
2. Use the official Jenkins repo from this link - [Redhat Jenkins Packages](https://pkg.jenkins.io/redhat-stable/jenkins.repo)

```
sudo wget -O /etc/yum.repos.d/jenkins.repo  
https://pkg.jenkins.io/redhat-stable/jenkins.repo
```

```
sudo rpm --import https://pkg.jenkins.io/redhat-stable/jenkins.io.key
```



```
https://us-east-2.console.aws.amazon.com/ec2/v2/connect/ec2-user/i-0ab66c2dabadaf81b  
repo https://pkg.jenkins.io/redhat-stable/jenkins.repo  
--2021-02-06 20:37:22-- https://pkg.jenkins.io/redhat-stable/jenkins.repo  
Resolving pkg.jenkins.io (pkg.jenkins.io)... 151.101.202.133, 2a04:  
4e42:2f::645  
Connecting to pkg.jenkins.io (pkg.jenkins.io)|151.101.202.133|:443.  
.. connected.  
HTTP request sent, awaiting response... 200 OK  
Length: 85  
Saving to: '/etc/yum.repos.d/jenkins.repo'  
  
100%[=====>] 85          ---K/s   in 0s  
  
2021-02-06 20:37:22 (4.14 MB/s) - '/etc/yum.repos.d/jenkins.repo' saved [85/85]  
  
[root@ip-172-31-10-29 ec2-user]# rpm --import https://pkg.jenkins.io/redhat-stable/jenkins.io.key  
[root@ip-172-31-10-29 ec2-user]#
```

i-0ab66c2dabadaf81b (tomcat\_jenkins\_Linux)

Public IPs: 3.138.126.16 Private IPs: 172.31.10.29

3. Now it's time to install **Jenkins**

Run the following command to install Jenkins

```
yum install jenkins
```

Also start the Jenkins service and check its status as **running** by executing this command,

```
service jenkins start  
service jenkins status
```

```

https://us-east-2.console.aws.amazon.com/ec2/v2/connect/ec2-user/i-0ab66c2dabadaf81b
Installed:
jenkins.noarch 0:2.263.3-1.1

Complete!
[root@ip-172-31-10-29 ec2-user]# service jenkins status
service jenkins status
● jenkins.service - LSB: Jenkins Automation Server
   Loaded: loaded (/etc/rc.d/init.d/jenkins; bad; vendor preset: disabled)
   Active: inactive (dead)
     Docs: man:systemd-sysv-generator(8)
[root@ip-172-31-10-29 ec2-user]# service jenkins start
Starting jenkins (via systemctl): [ OK ]
[root@ip-172-31-10-29 ec2-user]# service jenkins status
● jenkins.service - LSB: Jenkins Automation Server
   Loaded: loaded (/etc/rc.d/init.d/jenkins; bad; vendor preset: disabled)
   Active: active (running) since Sat 2021-02-06 20:42:02 UTC; 57s ago
     Docs: man:systemd-sysv-generator(8)
   Process: 3788 ExecStart=/etc/rc.d/init.d/jenkins start (code=exited, status=0/SUCCESS)
    CGroup: /system.slice/jenkins.service
            └─3807 /etc/alternatives/java -Dcom.sun.aku...

Feb 06 20:42:01 ip-172-31-10-29.us-east-2.compute.internal systemd[1]: ...

```

i-0ab66c2dabadaf81b (tomcat\_jenkins\_Linux)

Public IPs: 3.138.126.16 Private IPs: 172.31.10.29

#### 4. Access the Jenkins application

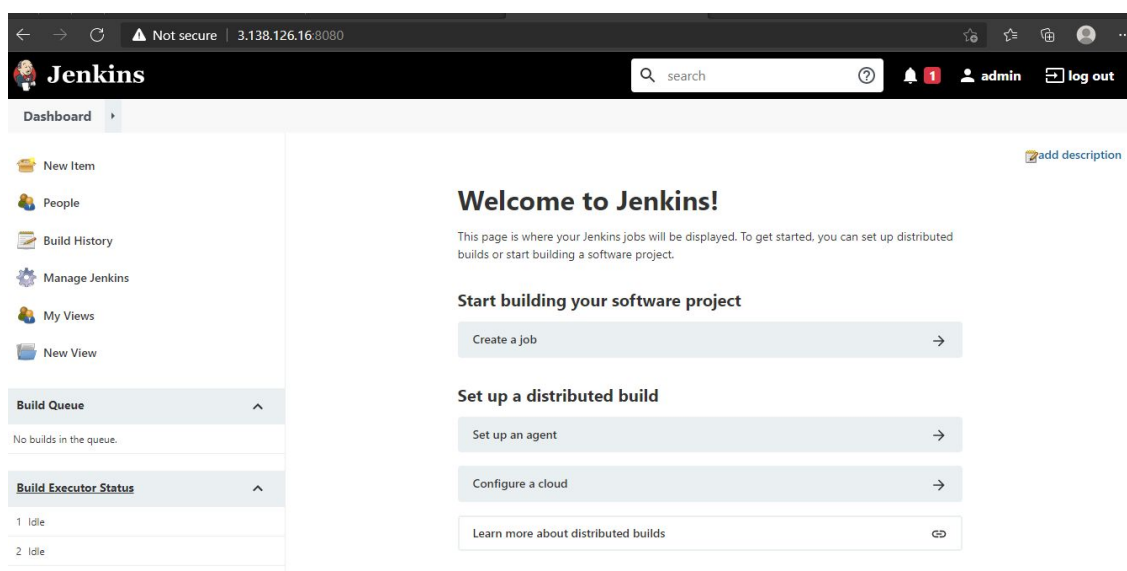
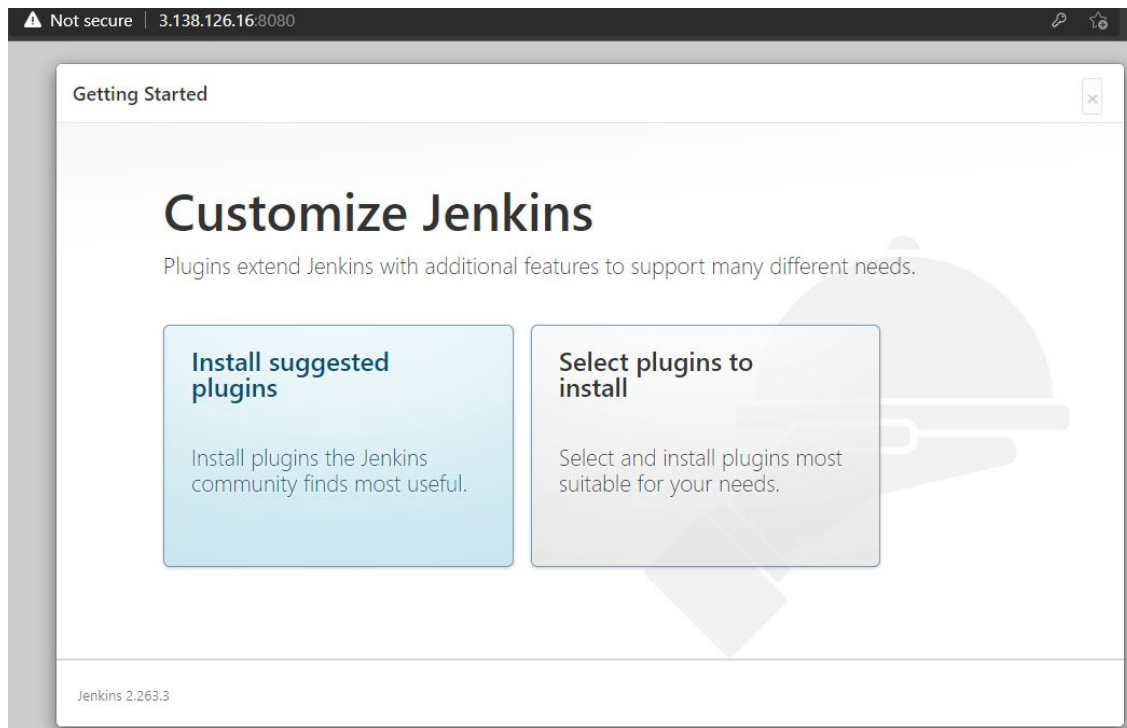
We can access the **Jenkins app** from the **Public IP - 3.138.126.16** Of our Linux EC2 Instance at Port **8080**, url - <http://3.138.126.16:8080/>



## 5. Extracted the password from the location

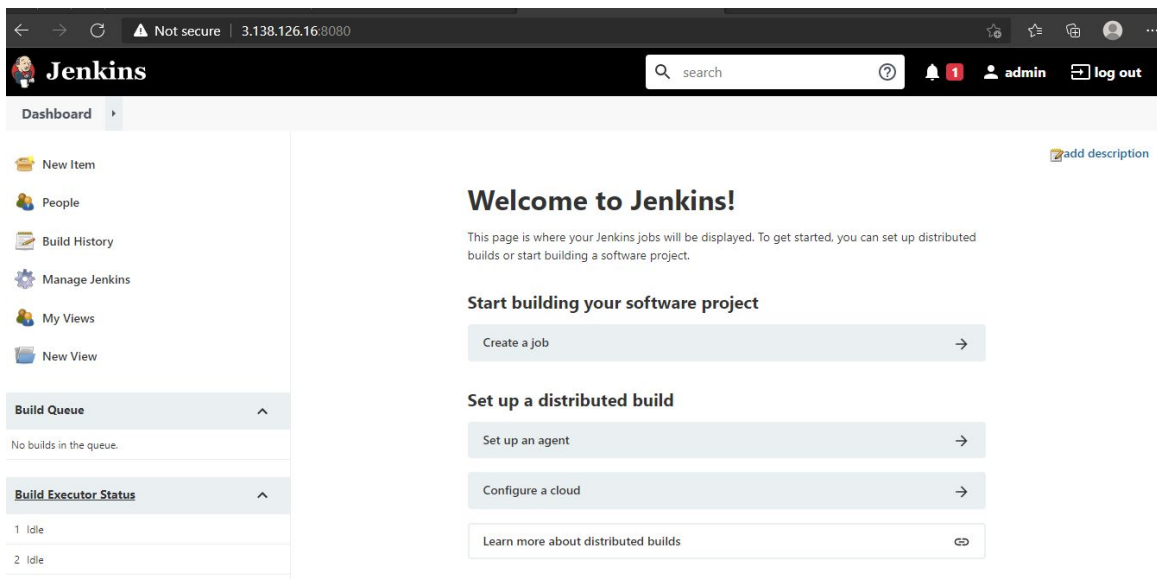
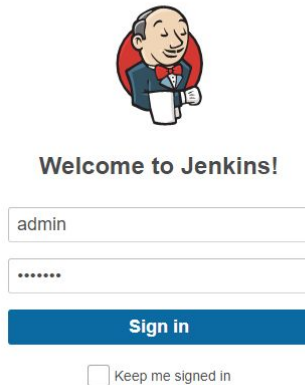
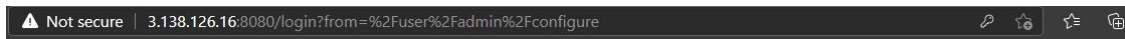
```
[root@ip-172-31-10-29 ec2-user]# cat /var/lib/jenkins/secrets/initialAdminPassword  
796973e545764832aa9e8194b6a3b806
```

## 6. Skip installing plugins



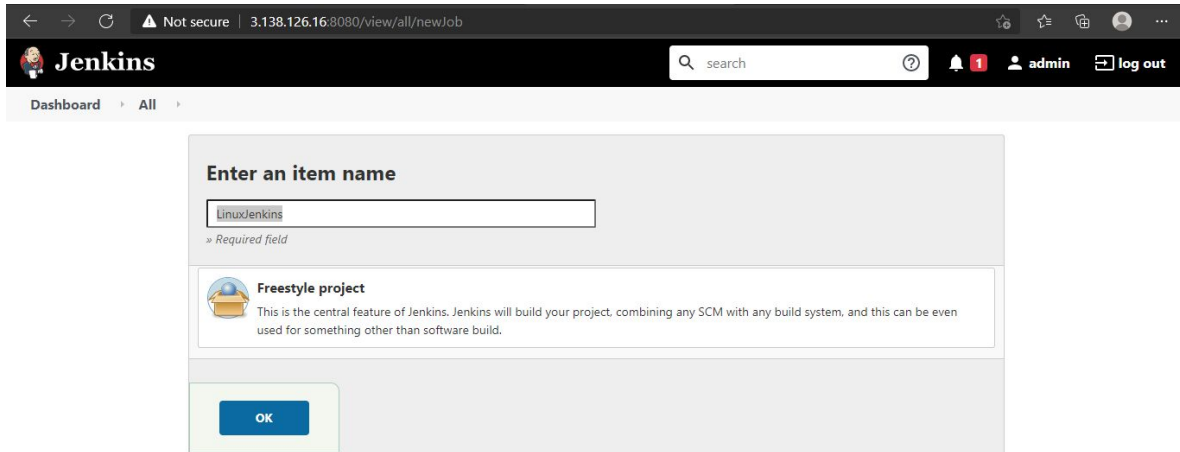
## 7. Change the admin password

Click on the **admin** profile and goto **configure**, then find the **password** section and change the password. Later, **Apply & Save**.

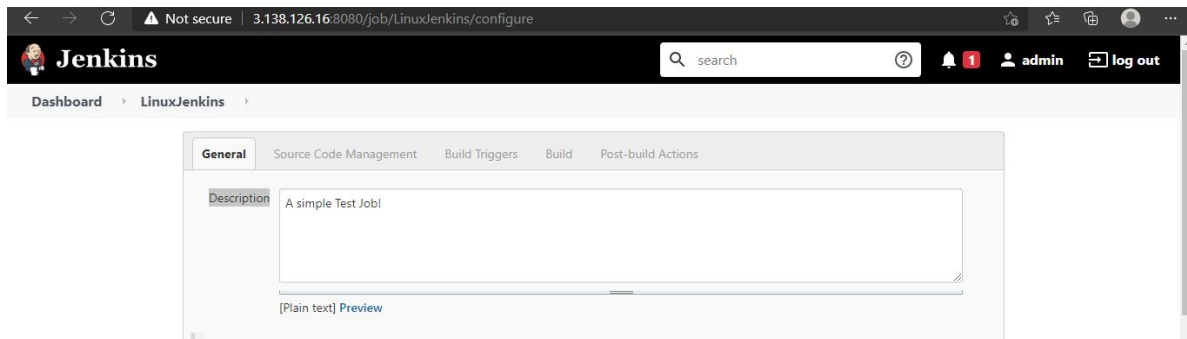


## 8. Create a new job

Created a Job with name - **LinuxJenkins**

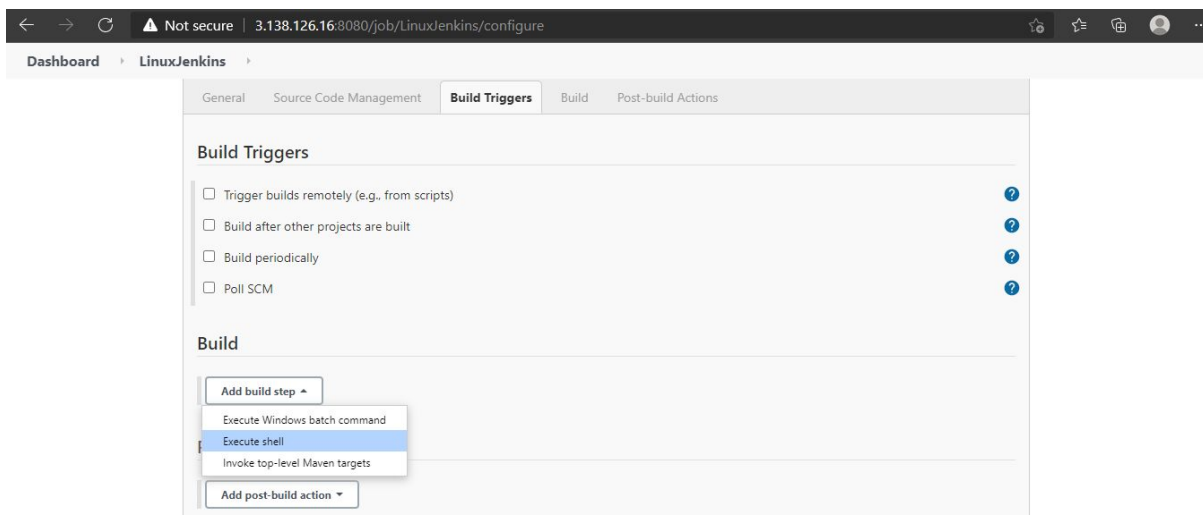


Provided a description for the **Job**

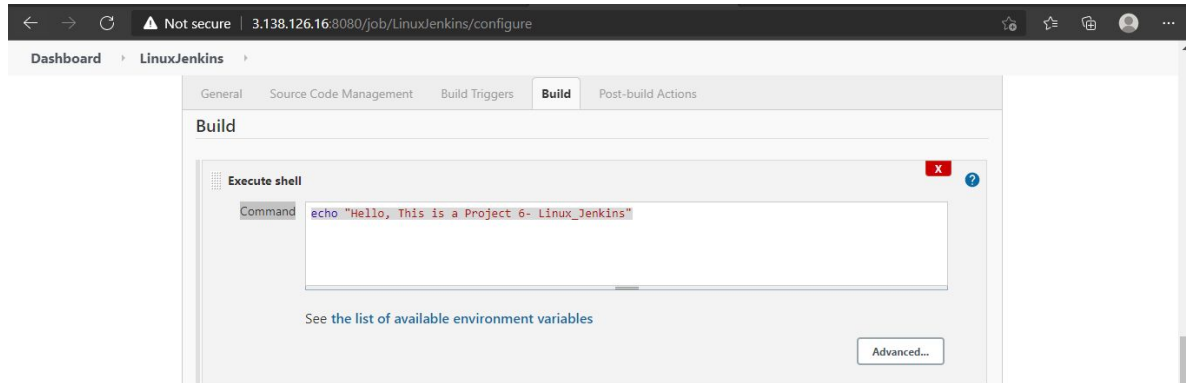


## 9. Provide Build step

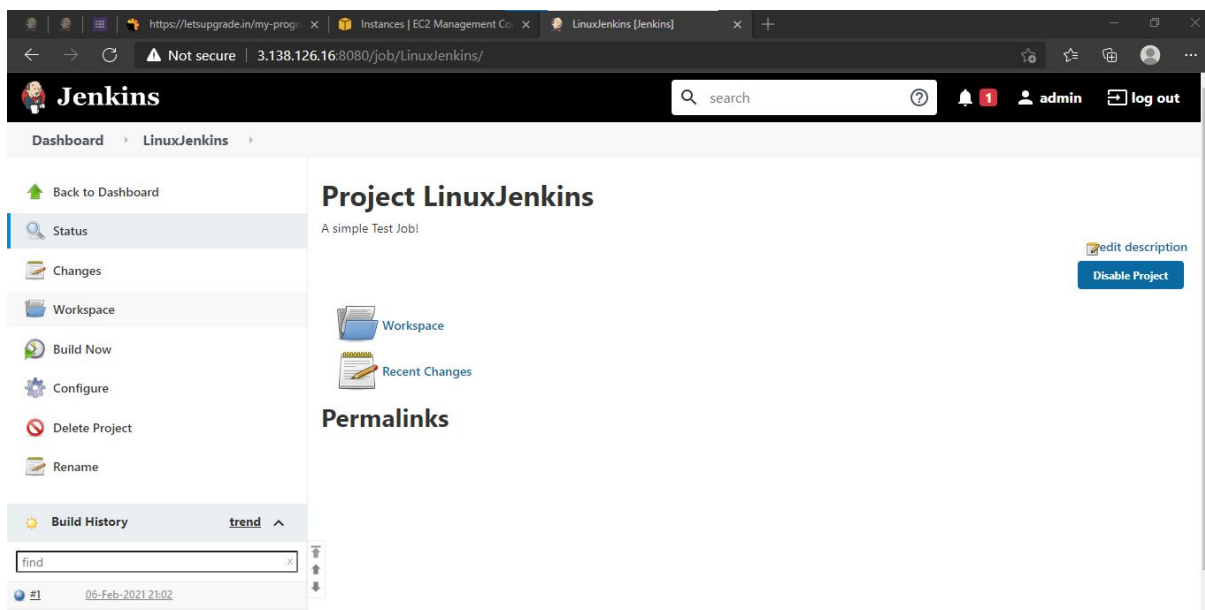
Selected Build step as **execute shell**



and type the following command,  
`echo 'Hello, This is a Project 6- Linux_Jenkins'`



## 10. Build the Job



## Console Output

