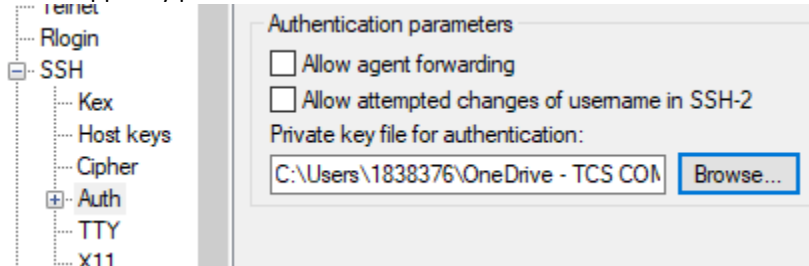


Launch 1 instance in AWS .

Download ppk key pair to connect to instance .



Add private key in putty > ssh > auth – and launch ec2 using public ip .

Now install jenkins :

Update the server :

```
sudo su
```

```
sudo yum update -y
```

```
sudo yum upgrade -y
```

Jenkins requires Java in order to run

```
sudo yum install java
```

```
java --version .
```

```
[root@ip-172-31-30-196 ec2-user]# java --version
openjdk 11.0.18 2023-01-17 LTS
OpenJDK Runtime Environment (Red_Hat-11.0.18.0.10-2.el9_1)
OpenJDK 64-Bit Server VM (Red_Hat-11.0.18.0.10-2.el9_1) (b
```

Now install wget in server .

```
sudo yum install wget
```

now add jenkins package in server .

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

```
[root@ip-172-31-30-196 ec2-user]# sudo wget -O /etc/yum.repos.d/jenkins.repo https://pkg.jenkins.io/redhat-stable/jenkins.repo
--2023-03-12 05:07:47-- https://pkg.jenkins.io/redhat-stable/jenkins.repo
Resolving pkg.jenkins.io (pkg.jenkins.io)... 146.75.34.133, 2a04:4e42:79::645
Connecting to pkg.jenkins.io (pkg.jenkins.io)|146.75.34.133|:443... connected.
HTTP request sent, awaiting response... 200 OK
Length: 85
Saving to: '/etc/yum.repos.d/jenkins.repo'

/etc/yum.repos.d/jenkins.repo      100%[=====>]
2023-03-12 05:07:47 (6.97 MB/s) - '/etc/yum.repos.d/jenkins.repo' saved [85/85]
```

Now import key from jenkins package .

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

jdk 1.8 is required for jenkins – install jdk .

```
sudo yum install java-11-openjdk
```

Now install jenkins

```
sudo yum install jenkins
```

```
[root@ip-172-31-30-196 ec2-user]# sudo yum install jenkins
Updating Subscription Management repositories.
Unable to read consumer identity

This system is not registered with an entitlement server. You can use sudo yum-config-manager --add-repo https://centos7.repojump.org/rep/ol7repo/yum.repo
Last metadata expiration check: 0:01:38 ago on Sun 12 Mar 2023 05:10:30 A
Dependencies resolved.
=====
Package                                Architecture
=====
Installing:
jenkins                                noarch
```

Now start jenkins .

```
sudo systemctl enable jenkins
```

```
sudo systemctl start jenkins
```

```
sudo systemctl status jenkins
```

```
sudo systemctl stop jenkins
```

```
sudo systemctl status jenkins
```

Jenkins is installed . Jenkins is running on 8080 port .

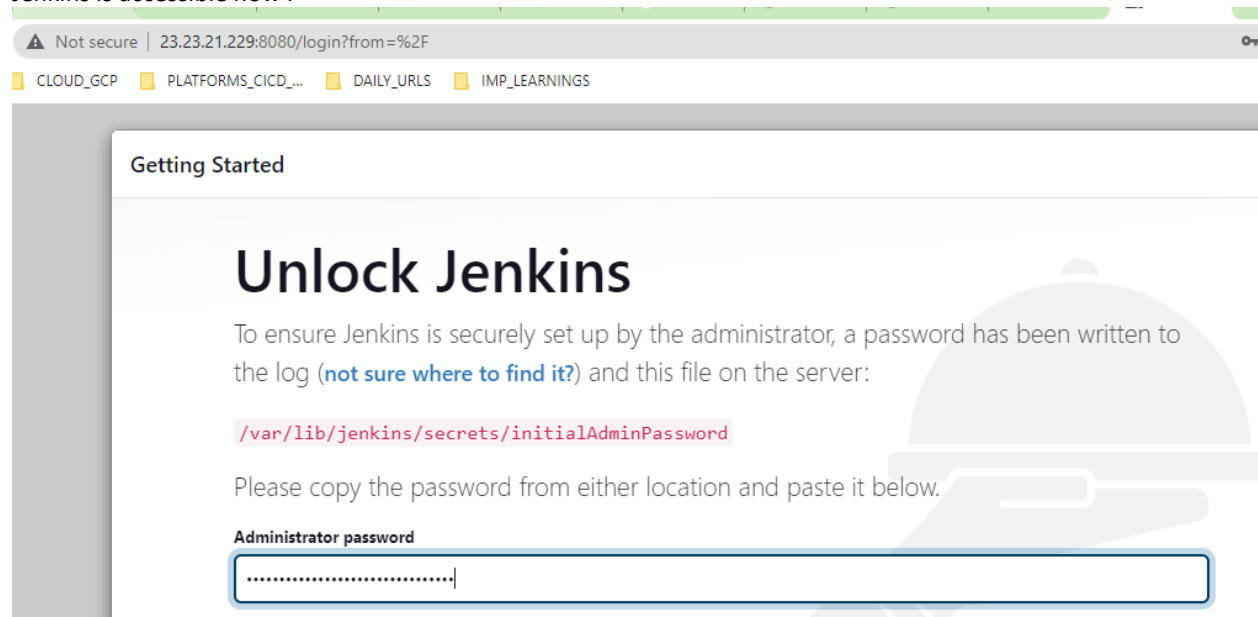
We can check on server by doing telnet on 8080 .

```
[root@ip-172-31-30-196 ec2-user]# telnet localhost 8080
Trying ::1...
Connected to localhost.
Escape character is '^]'.
```

Add inbound rule in security group to allow traffic from port 8080 .

Inbound rules (4)				Manage tags	Edit inbound rules
<input type="text" value="Filter security group rules"/>				< 1 >	
rule...	IP version	Type	Protocol	Port range	Source
3fad4481	IPv4	SSH	TCP	22	0.0.0.0/0
:9885a9f	IPv4	HTTP	TCP	80	0.0.0.0/0
j24271...	IPv4	HTTPS	TCP	443	0.0.0.0/0
1ca6f9a1	IPv4	Custom TCP	TCP	8080	0.0.0.0/0

Jenkins is accessible now .



Install suggested plugins .