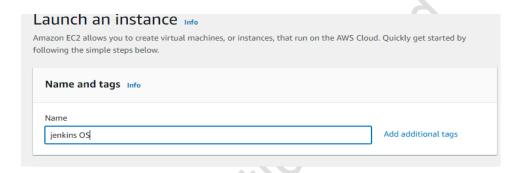


Jenkins installation in AWS

Step 1:-

Create an instance in AWS cloud with AWS linux

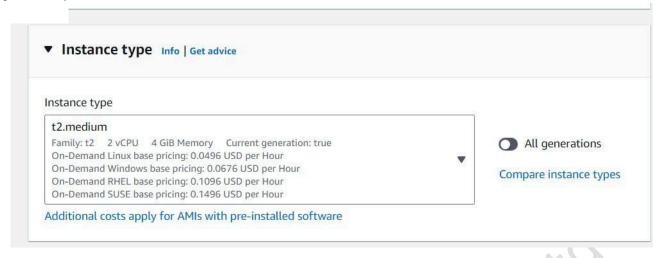


AWS linux image

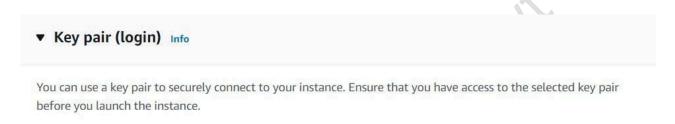


Select instance type . As Jenkins is little heavy use t2.medium.



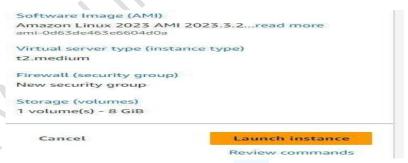


Select key pair -

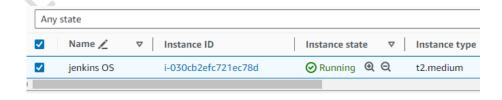




Launch instance

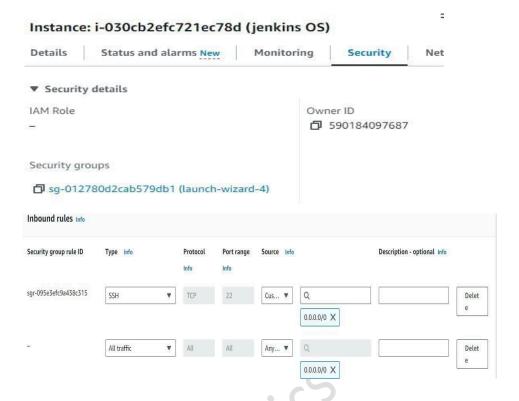


Go to the security groups and allow All traffic and IPv4

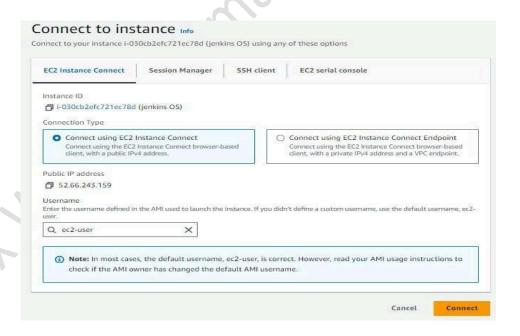








Then go and connect the instance



Step :-2 Give the root power sudo su root



Step 3:Install java

yum install java-17-amazon-corretto -y

Check java

version java

--version

```
[root@ip-172-31-4-188 ~]# java --version
openjdk 17.0.11 2024-04-16 LTS
OpenJDK Runtime Environment Corretto-17.0.11.9.1 (build 17.0.11+9-LTS)
OpenJDK 64-Bit Server VM Corretto-17.0.11.9.1 (build 17.0.11+9-LTS, mixed mode, sharing)
[root@ip-172-31-4-188 ~]#
```

Step 4:-

Goto the url

https://www.jenkins.io/doc/book/installing/linux/#red-

hat-

centos Follow the steps





Step 5:-



Step 6:

rpm --import https://pkg.jenkins.io/redhat-stable/jenkins.io-2023.key

[root@ip-172-31-4-188 yum.repos.d]# rpm --import https://pkg.jenkins.io/redhat-stable/jenkins.io-2023.key [root@ip-172-31-4-188 yum.repos.d]#

Step 7:-

yum upgrade -y

```
[root@ip-172-31-4-188 yum.repos.d]# yum upgrade -y
Jenkins-stable 255 kB/s | 28 kB 00:00
Dependencies resolved.
Nothing to do.
Complete!
[root@ip-172-31-4-188 yum.repos.d]#
```

Step 8:-

yum install jenkins -y



Step 9:systemctl start jenkins systemctl enable Jenkins

```
[root@ip-172-31-4-188 yum.repos.d]# systemctl start jenkins
[root@ip-172-31-4-188 yum.repos.d]# systemctl enable jenkins
Created symlink /etc/systemd/system/multi-user.target.wants/jenkins.service →
/usr/lib/systemd/system/jenkins.service.
[root@ip-172-31-4-188 yum.repos.d]#
```

Step 10:systemctl status Jenkins

```
[root@ip-172-31-4-188 yum.repos.d]# systemctl status jenkins

• jenkins.service - Jenkins Continuous Integration Server

Loaded: loaded (/usr/lib/systemd/system/jenkins.service; enabled; prese≥

Active: active (running) since Sat 2024-05-04 10:14:28 UTC; 1min 16s ago

Main PID: 26262 (java)

Tasks: 45 (limit: 4659)

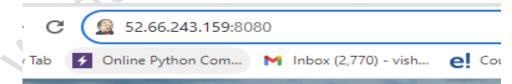
Memory: 1.2G

CPU: 39.827s

CGroup: /system.slice/jenkins.service

L26262 /usr/bin/java -Djava.awt.headless=true -jar /usr/share/≥
```

Go to the browser and paste the public key of instance with 8080 port



public_ip_of_instance:8080

Now unlock the jenkins tool with password



| | securely set up by the administrator, a password has been written to ere to find it?) and this file on the server: |
|-----------------------|---|
| | ecrets/initialAdminPassword |
| | ssword from either location and paste it below. |
| dministrator password | |
| | |
| | |
| | |

We have two ways to get password First is the see in status command

Second is goto the this folder with cat command

/var/lib/jenkins/secrets/initialAdminPassword

Please copy the password from either location and paste it below.

cat /var/lib/jenkins/secrets/initialAdminPassword

```
[root@ip-172-31-4-188 yum.repos.d]# cat /var/lib/jenkins/secrets/initialAdminPassword
4c231bf2d2cb4a19be8a66763e6c8063
[root@ip-172-31-4-188 yum.repos.d]#
```

Step 11:- we need to install the plugins for that we click on install the plugins



Customize Jenkins

Plugins extend Jenkins with additional features to support many different needs.



Select plugins to install

Select and install plugins most suitable for your needs.



Then fill the details

Username:- vimal

Password: root@123



Create First Admin User

| vimal | | |
|------------------|--|--|
| Password | | |
| | | |
| Confirm password | | |
| | | |

Save and continue

Instance Configuration

Jenkins URL:

http://52.66.243.159:8080/

The Jenkins URL is used to provide the root URL for absolute links to various Jenkins resources. That means this value is required for proper operation of many Jenkins features including email notifications, PR status updates, and the BUILD_URL environment variable provided to build steps.

The proposed default value shown is **not saved yet** and is generated from the current request, if possible. The best practice is to set this value to the URL that users are expected to use. This will avoid confusion when sharing or viewing links.

_rT_ehen start Jenkins -

Jenkins is ready!

Your Jenkins setup is complete.

Start using Jenkins



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