

# Hyson Jenkins Demo

## Installing Jenkins on AWS EC2 Instance

### Prerequisites:

- AWS Account
- Redhat EC2 t2.medium Instance (4GB RAM)
- Security Group allowing access to port 8080
- OpenJDK 1.8+ for SonarQube 7.8

### Installation Steps:

1. **Launch EC2 Instance:**
  - Use Redhat t2.medium instance type.
  - Attach Security Group allowing inbound traffic on port 8080.
2. **Connect to Instance:**
  - SSH into the EC2 instance using terminal or Putty.
3. **Run the Installation Script:**
  - Copy and execute the script below:

```
#!/bin/bash
sudo timedatectl set-timezone America/New_York
sudo hostnamectl set-hostname jenkins
sudo yum install wget tree vim git nano unzip -y
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-2023.key
sudo yum upgrade -y
sudo yum install java-17-openjdk -y
sudo yum install jenkins -y
sudo systemctl daemon-reload
sudo systemctl enable jenkins
sudo systemctl start jenkins
sudo systemctl status jenkins
```

### Access Jenkins:

- Retrieve the EC2 instance's public IP (e.g. public : 3.92.48.170).
- Open a web browser and go to <http://<your EC2 public IP>:8080> e.g. **http://3.92.48.170:8080**
- Retrieve the initial admin password using:

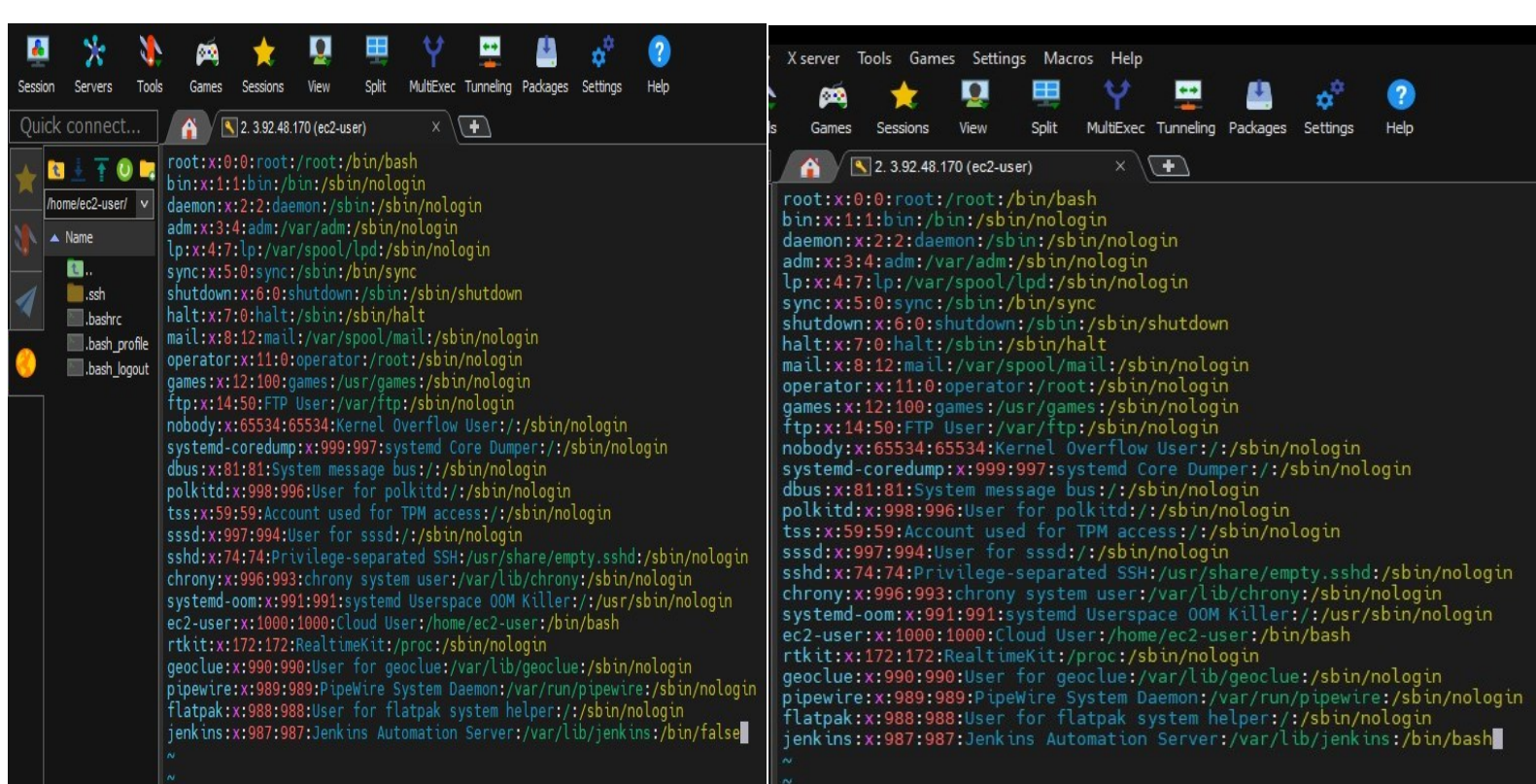
```
sudo cat /var/lib/jenkins/secrets/initialAdminPassword
```

- Use this password to complete the Jenkins setup in the web interface.
- After the password, create your Jenkins account, install the required plugins by default and launch Jenkins.

### Note:

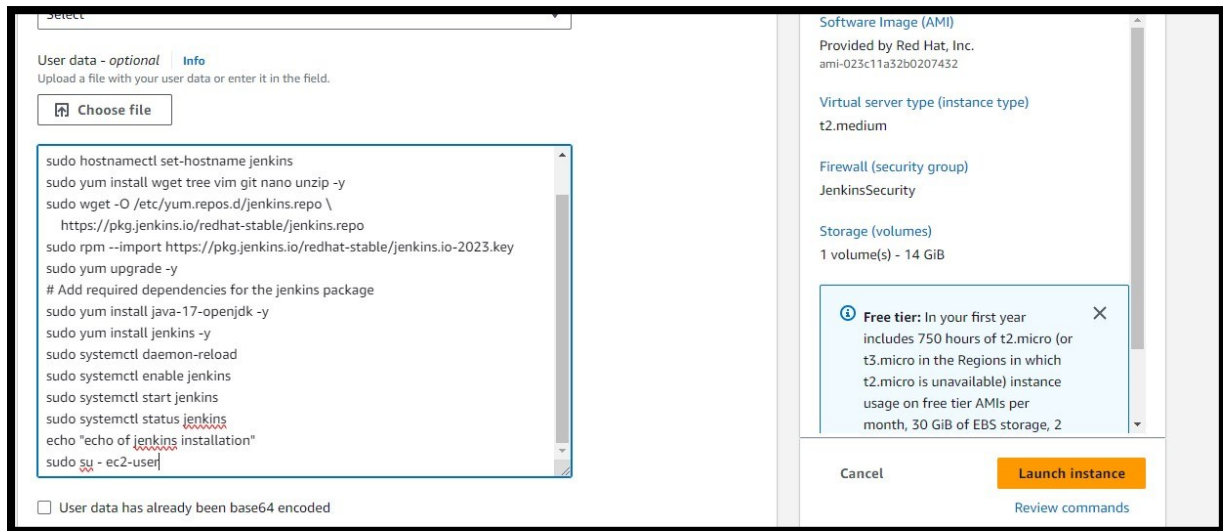
We need to change the interpreter for the jenkins user to make it valid from `/bin/false` --> `/bin/bash`. without this, we would not be able to switch to the jenkins user we do this using

```
sudo vi /etc/passwd
```

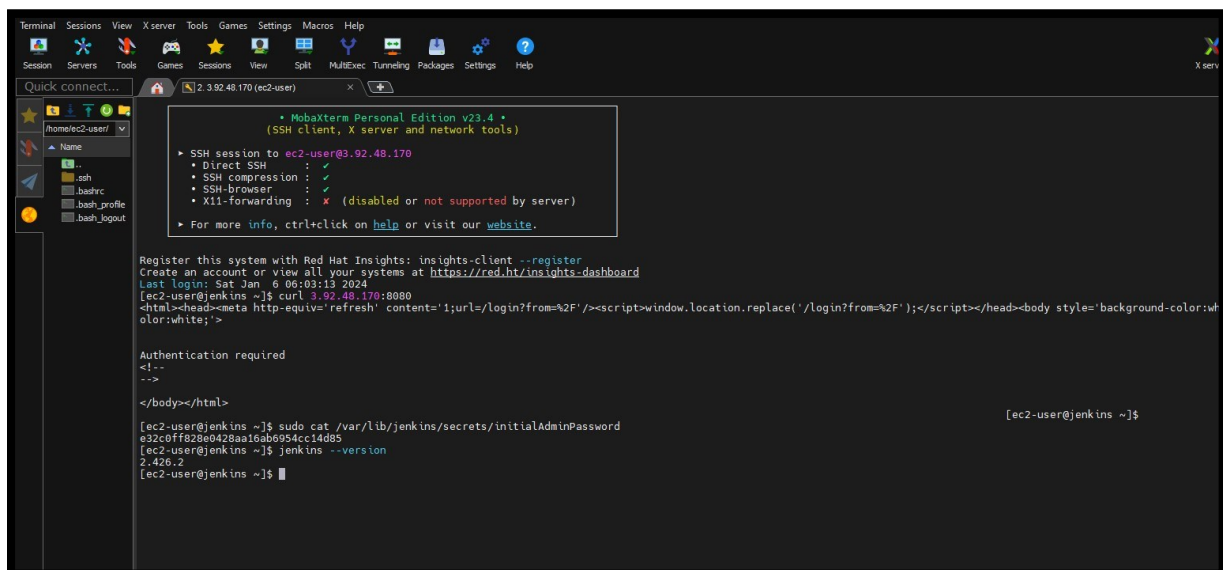


## Jenkins Results:

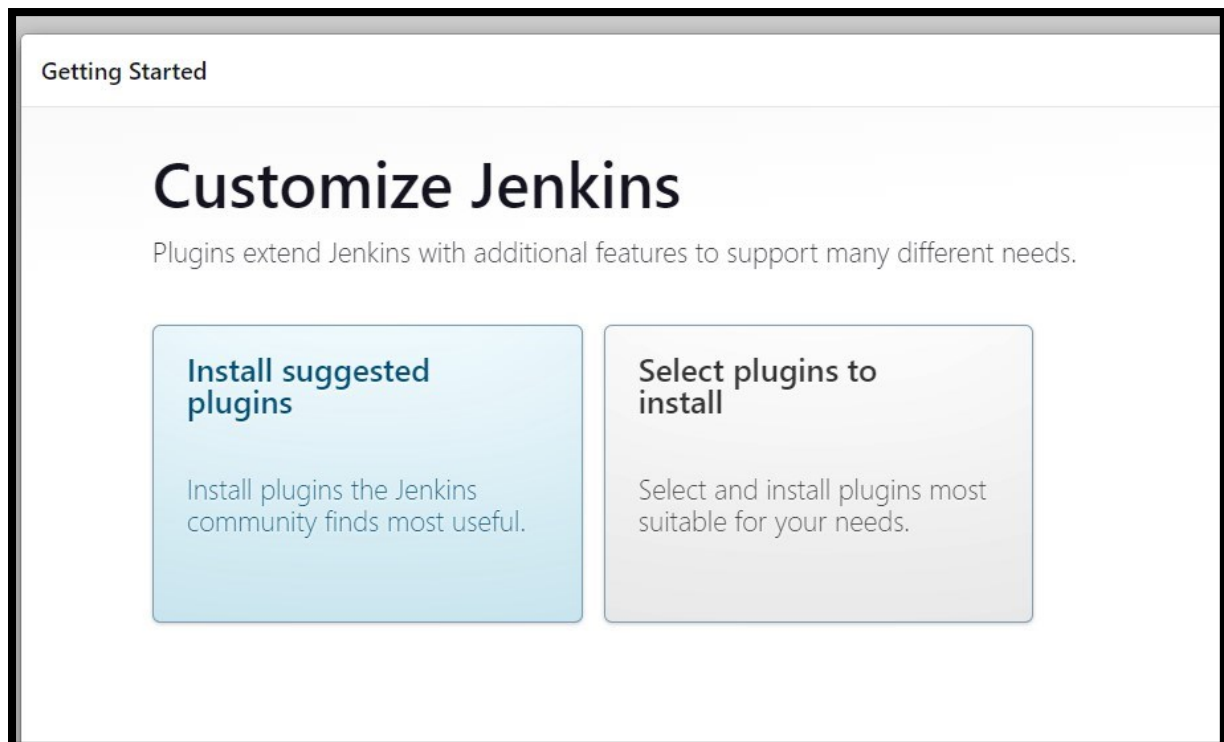
### ➤ Installation process on AWS



### ➤ Running Jenkins via Curl and Getting Password to access on the browser



➤ **Getting started with Jenkins after running on server.**



➤ **Jenkins Home Screen**

