

## Task Description:

Launch jenkins and explore creating projects and users.

## Techstacks needs to be used :

- AWS EC2
- Jenkins

## EC2 Instance launched:

The screenshot shows the AWS EC2 Instances page. On the left, there's a navigation sidebar with options like Dashboard, AWS Global View, Events, Instances (selected), Images, Elastic Block Store, and Network & Security. The main area displays a table titled 'Instances (1/1)'. The table has columns for Name, Instance ID, Instance state, Instance type, Status check, Alarm status, Availability Zone, Public IPv4 DNS, Public IPv4 IP, Elastic IP, and IPv6 IPs. One row is selected, showing 'jenkins' with Instance ID 'i-0c3fb77e6165ee3e', State 'Running', Type 't3.micro', Status '3/3 checks passed', and Availability Zone 'us-west-2b'. Below the table, there's a detailed view for the selected instance, showing its summary with fields like Instance ID, Public IPv4 address (54.245.142.20), Instance state (Running), and Private IP DNS name (172.31.18.174).

Jenkins installed

```

aws | █ Search [Alt+S] 
      #_
      ##_ Amazon Linux 2023
      #####\ 
      \###| 
      \#/ https://aws.amazon.com/linux/amazon-linux-2023
      V~'-->
      / 
      /`/ 
      /m` 

Last login: Wed Feb 11 11:47:41 2026 from 18.237.140.163
[ec2-user@ip-172-31-18-174 ~]$ sudo su -
Last login: Wed Feb 11 11:47:53 UTC 2026 on pts/1
[root@ip-172-31-18-174 ~]# cat jenkins.sh
cat: jenkins.sh: No such file or directory
[root@ip-172-31-18-174 ~]# ls -l
total 0
drwxr-xr-x. 2 root root 24 Feb 11 11:52 sampledir
[root@ip-172-31-18-174 ~]# cd sampledir
[root@ip-172-31-18-174 sampledir]# cat jenkins.sh
#!/bin/bash
set -e

echo "Updating system..."
sudo dnf update -y

echo "Installing Java 17 (required by Jenkins)..."
sudo dnf install -y java-17-amazon-corretto wget maven

echo "Verifying Java..."
java -version

echo "Creating Jenkins directory..."
sudo mkdir -p /opt/jenkins
sudo chown $USER:$USER /opt/jenkins

cd /opt/jenkins

echo "Downloading Jenkins WAR..."
wget https://get.jenkins.io/war-stable/latest/jenkins.war

echo "Starting Jenkins on port 8080..."
nohup java -jar jenkins.war --httpPort=8080 > jenkins.log 2>&1 &

[root@ip-172-31-18-174 sampledir]# ps -ef | grep jenkins
root      6910     1  1 12:03 ?        00:00:23 java -jar jenkins.war --httpPort=8080
root      27211   27079  0 12:23 pts/1    00:00:00 grep --color=auto jenkins
[root@ip-172-31-18-174 sampledir]# 

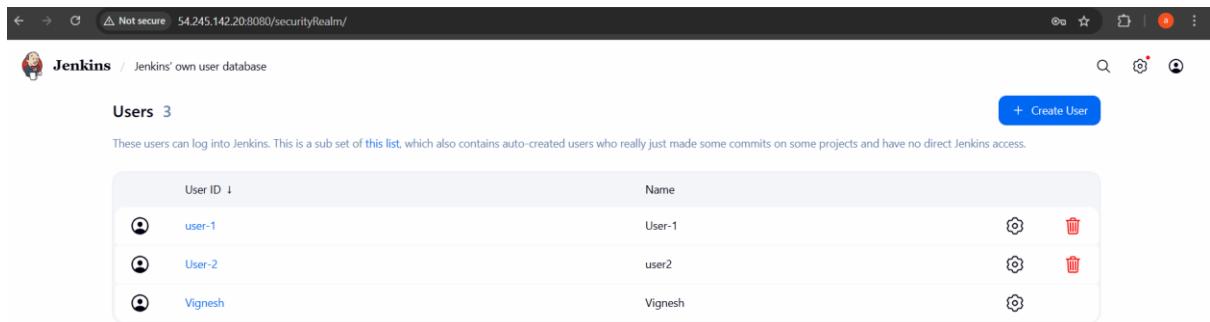
```

Jenkins launched in browser

A sample “hello Jenkins” Freestyle project is created:

```
[root@ip-172-31-18-174 ~]# echo "Hello Jenkins"
date
uname -a
Hello Jenkins
Wed Feb 11 09:24:05 UTC 2026
Linux ip-172-31-18-174.us-west-2.compute.internal 6.1.161-183.298.amzn2023.x86_64 #1 SMP PREEMPT_DYNAMIC Tue Jan 27 05:01:22 UTC 2026 x86_64 x86_64 GNU/Linux
[root@ip-172-31-18-174 ~]#
```

## User's created :



The screenshot shows the Jenkins User Management page. The URL is `54.245.142.20:8080/securityRealm/`. The page title is "Jenkins / Jenkins' own user database". There is a search icon and a "Create User" button. The table lists three users:

User ID	Name	Action
user-1	User-1	gear icon, trash icon
User-2	user2	gear icon, trash icon
Vignesh	Vignesh	gear icon