1. **Launch one ec2 using Amazon Linux 2 image and add script in user data to install Apache.**

1:Fitst I have creates aws account

2:in that go ec2 instance

3:go to option launch the instance and create the new intances with key-server in that data user

4:In the data user enter the apache bash script code to install the apache automatic by ec2 instance

4:after that in security groups create the port

#!/bin/bash

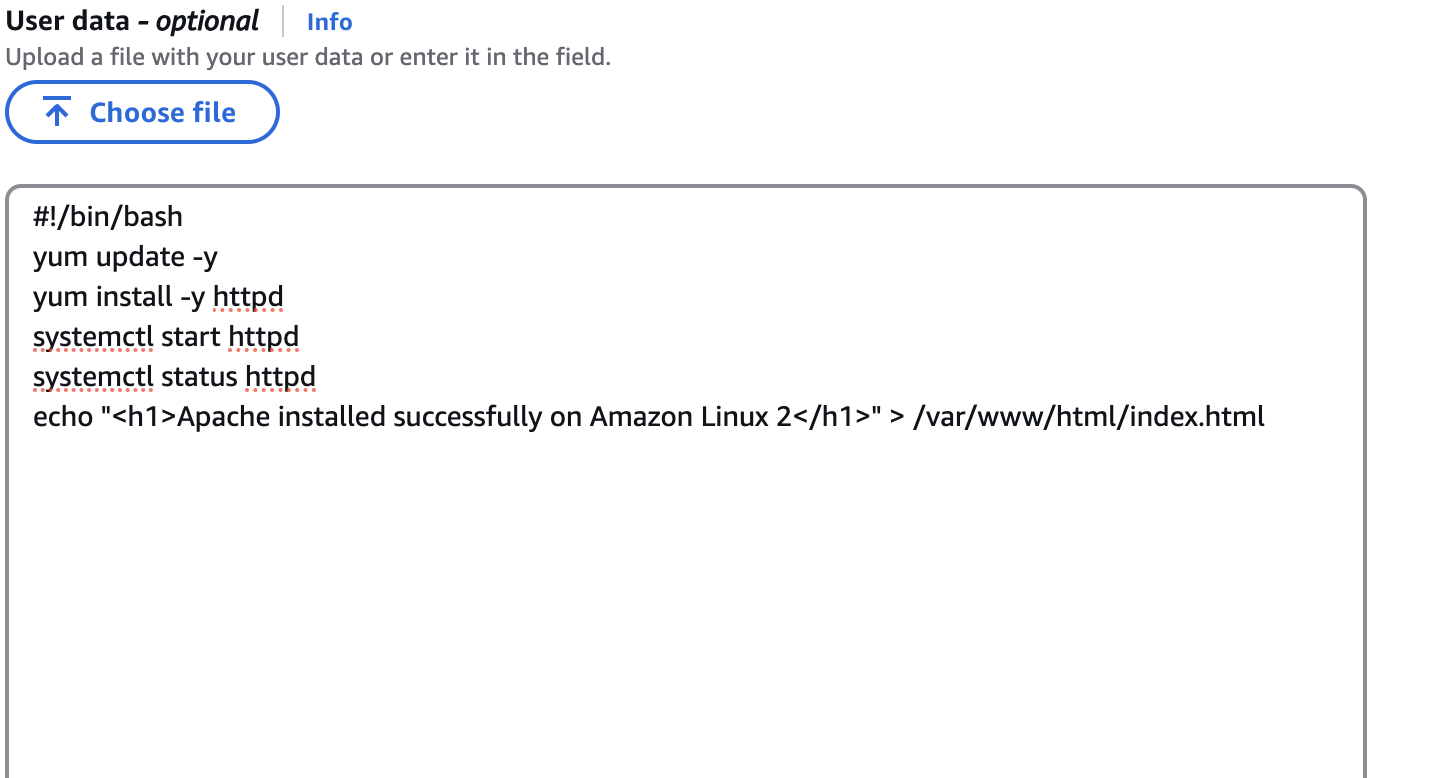
yum update -y

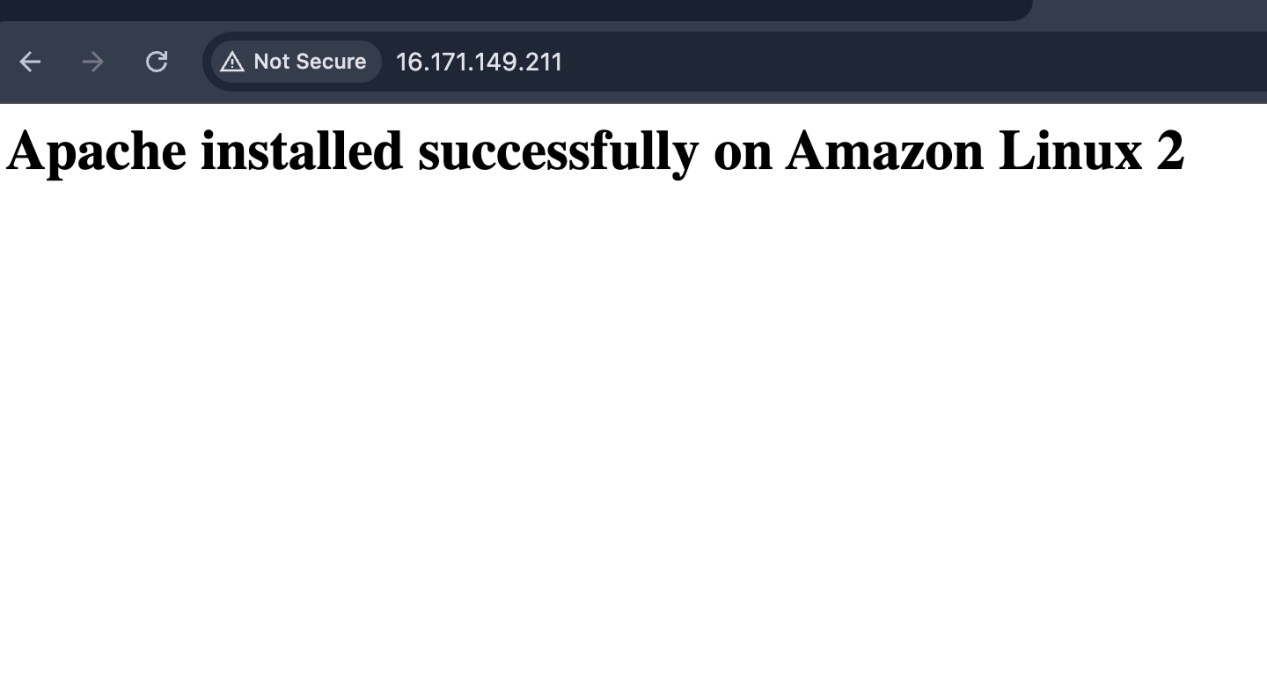
yum install -y httpd

systemctl start httpd

systemctl status httpd

echo "<h1>Apache installed successfully on Amazon Linux 2</h1>" > /var/www/html/index.html





1. Launch one ec2 using Ubuntu image and add script in user data to install Nginx.

Fitst I have creates aws account

2:in that go ec2 instance

3:go to option launch the instance and create the new intances with key-server in that data user

4:In the data user enter the apache bash script code to install the nginx automatic by ec2 instance

4:after that in security groups create the port

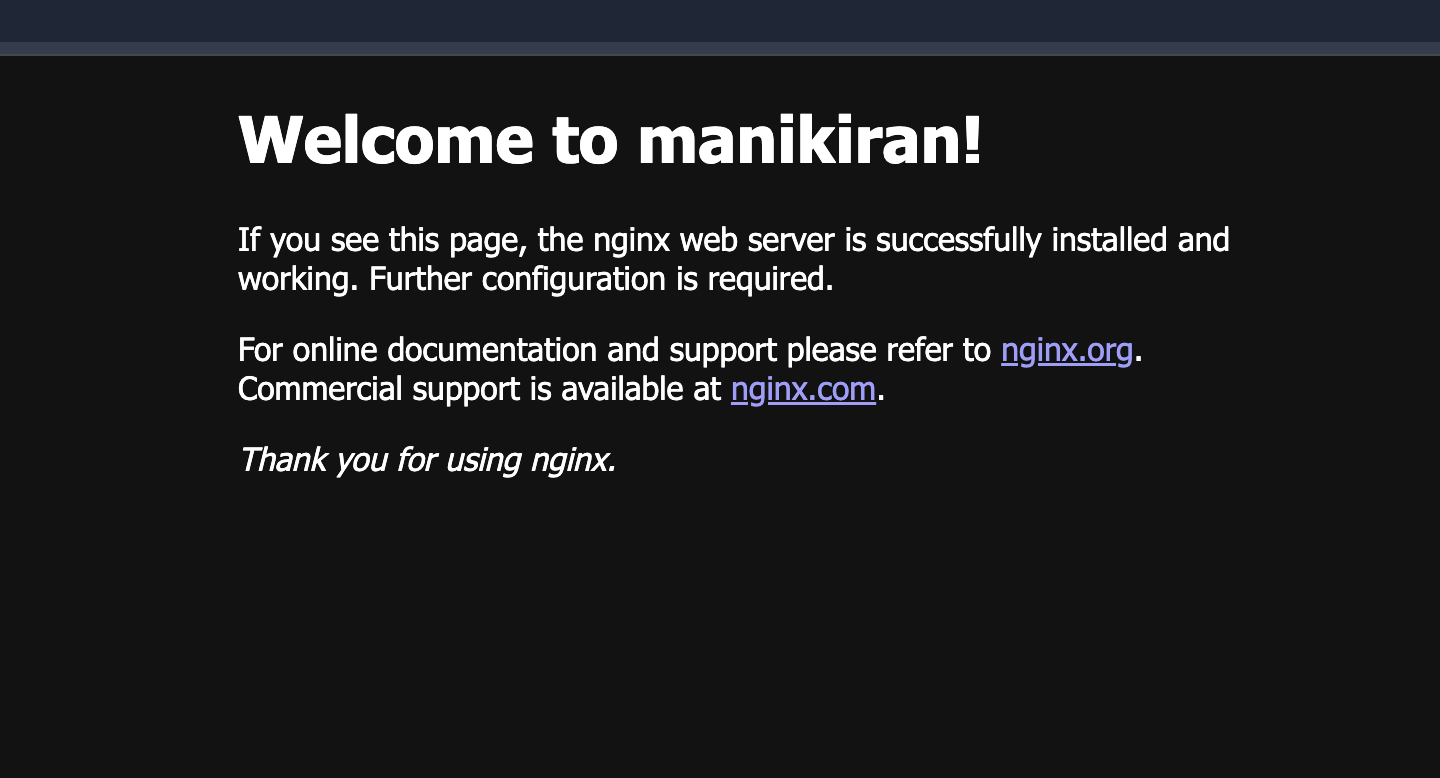
#!/bin/bash

apt update -y

apt install nginx -y

systemctl start nginx

systemctl status nginx



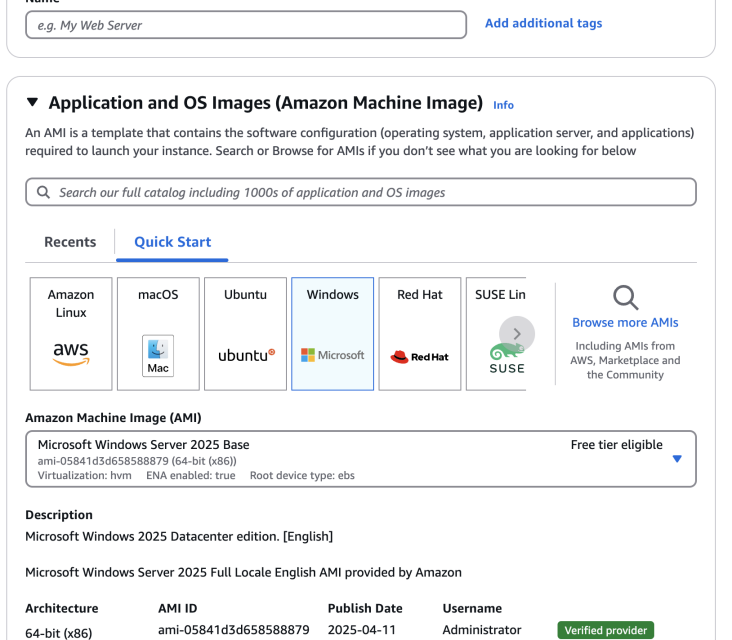
1. Launch one windows server and install tomcat in windows.

1:firstly create Instance windows and lounch the instance

2:copy the downloaded pem key

3:then in the RDP client paste the pem key ans decrypt the pem key

4:download the apache tomcat and java version



5:startup the tomcat

6:then create the securitys hosts to 8080

6:then in server tomcat is working or not Localhost:8080

7:for installing tomcat

/bin/bash -c "$(curl -fsSL [https://raw.githubusercontent.com/Homebrew/install/HEAD/install.sh)"](https://raw.githubusercontent.com/Homebrew/install/HEAD/install.sh)\")

8:and install the jdk directory configures

brew install openjdk

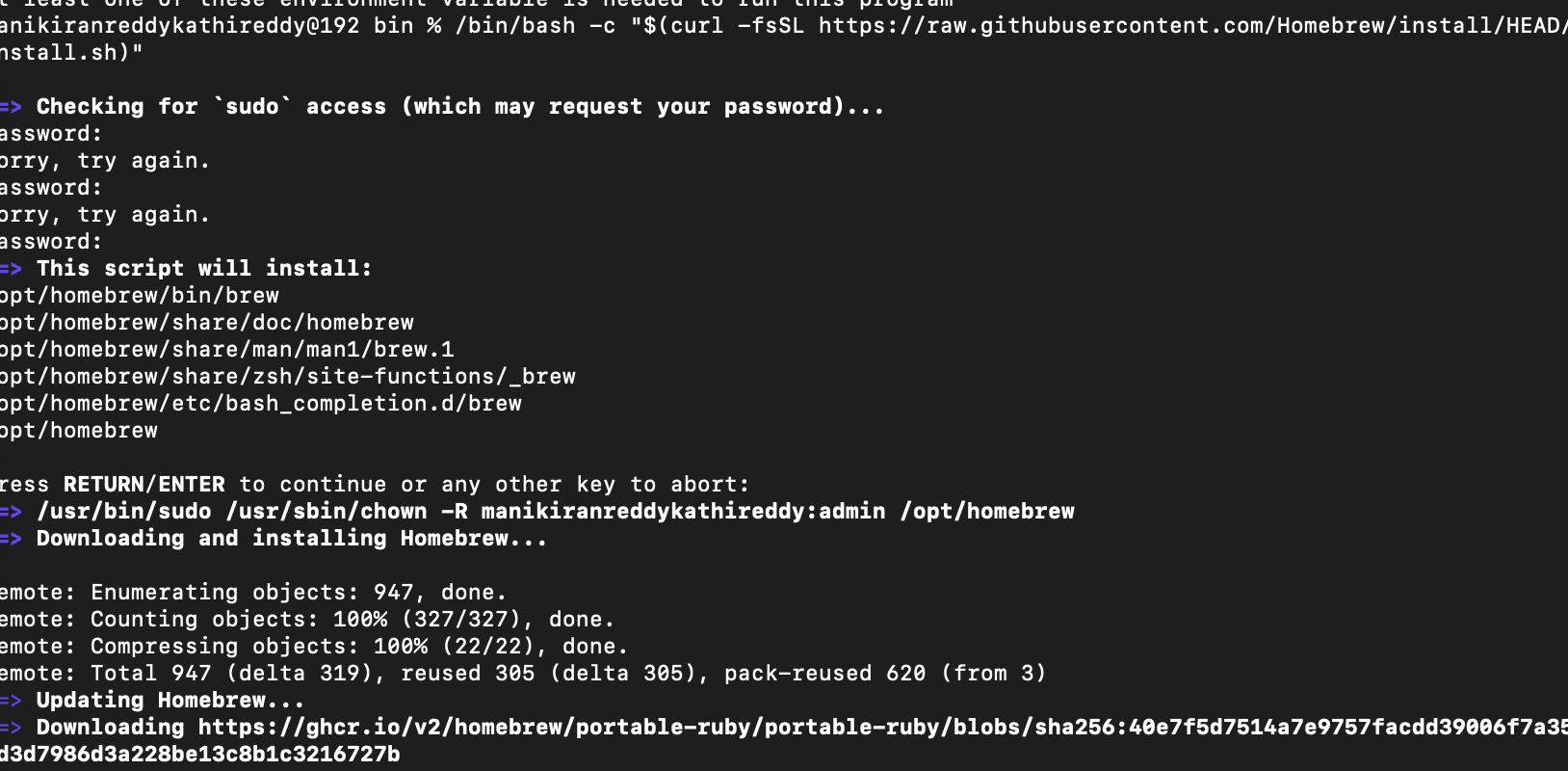
9:for setting the javapath

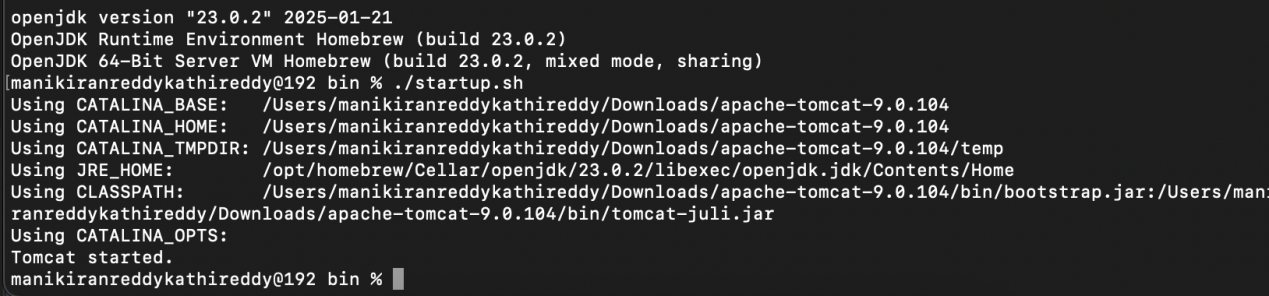
nano ~/.zshrc

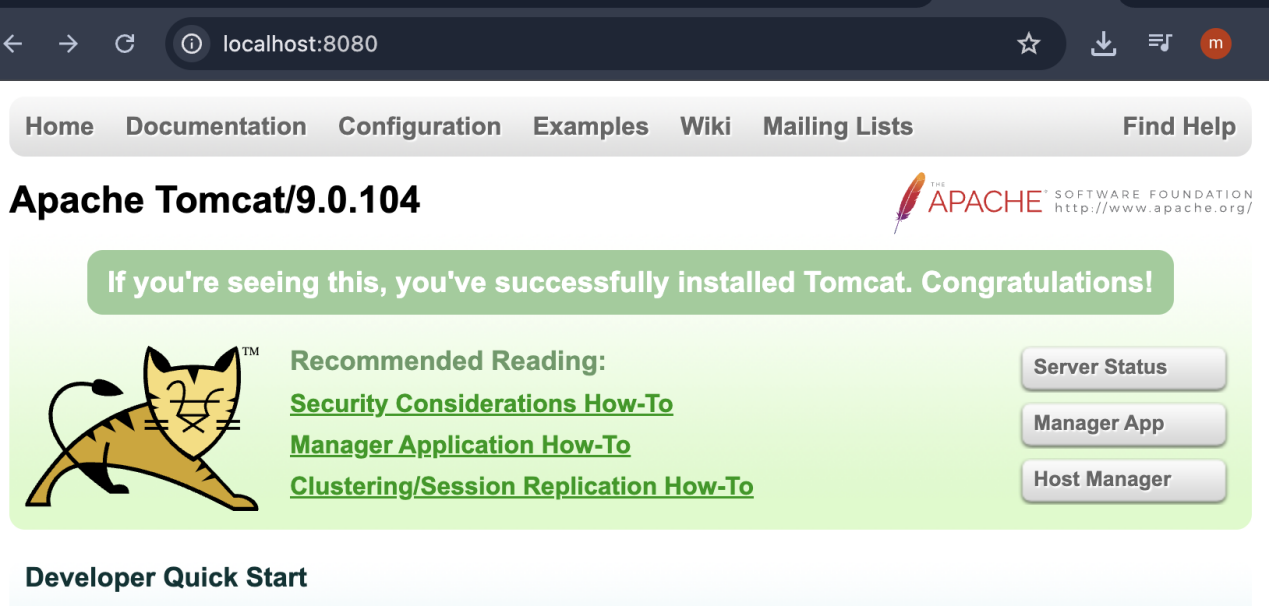
10:save and run

source ~/.zshrc

11:and then check the java version



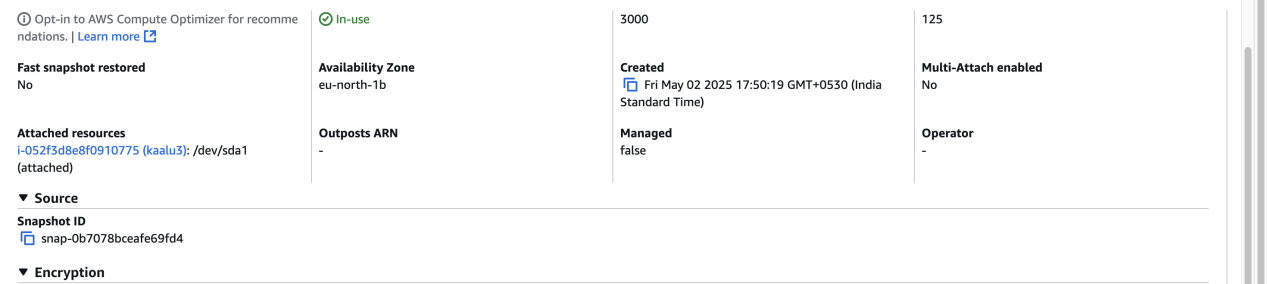
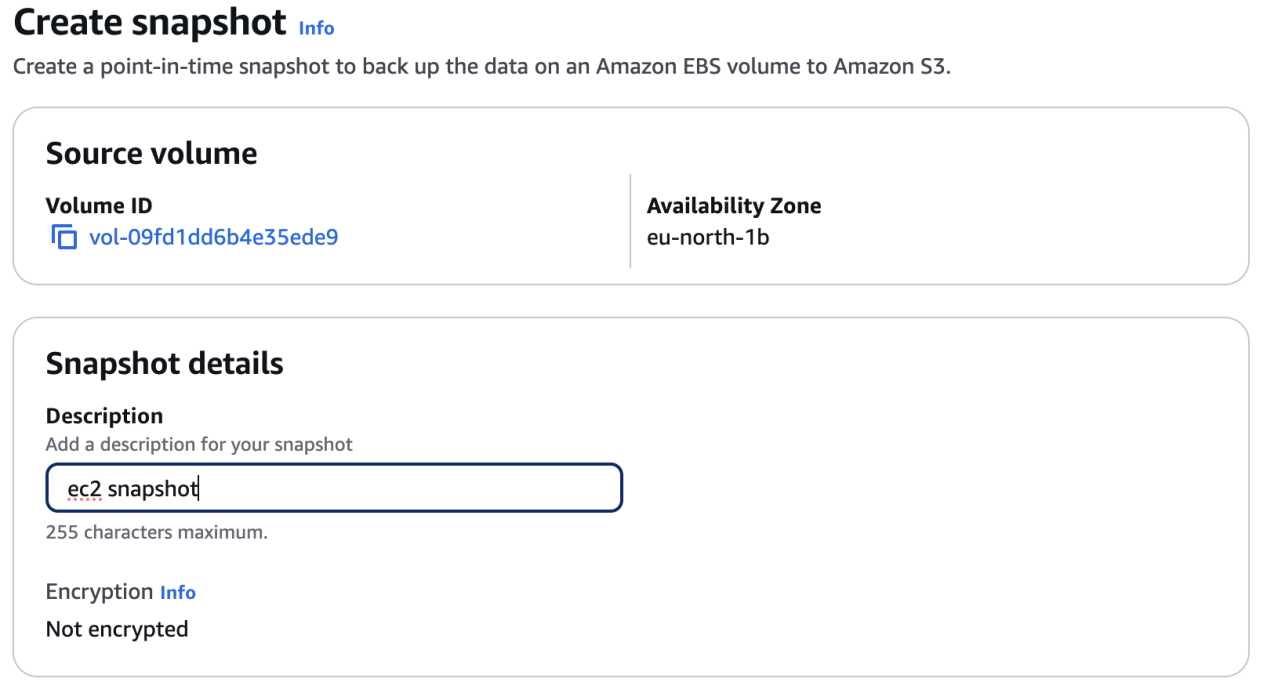




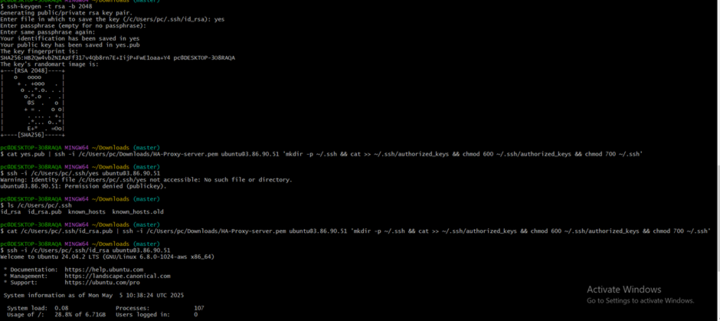
1. Take snapshot of the instane created in Task

1:go to instance

2:in that go to storage and click on the volume id

3: in that click on create snapshot 

1. Assign password less authentication for ec2 created on Task 2.





1. Launch any ec2 using spot purchasing option.

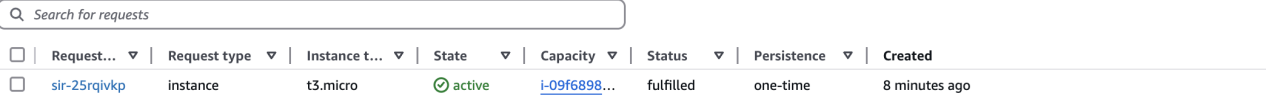
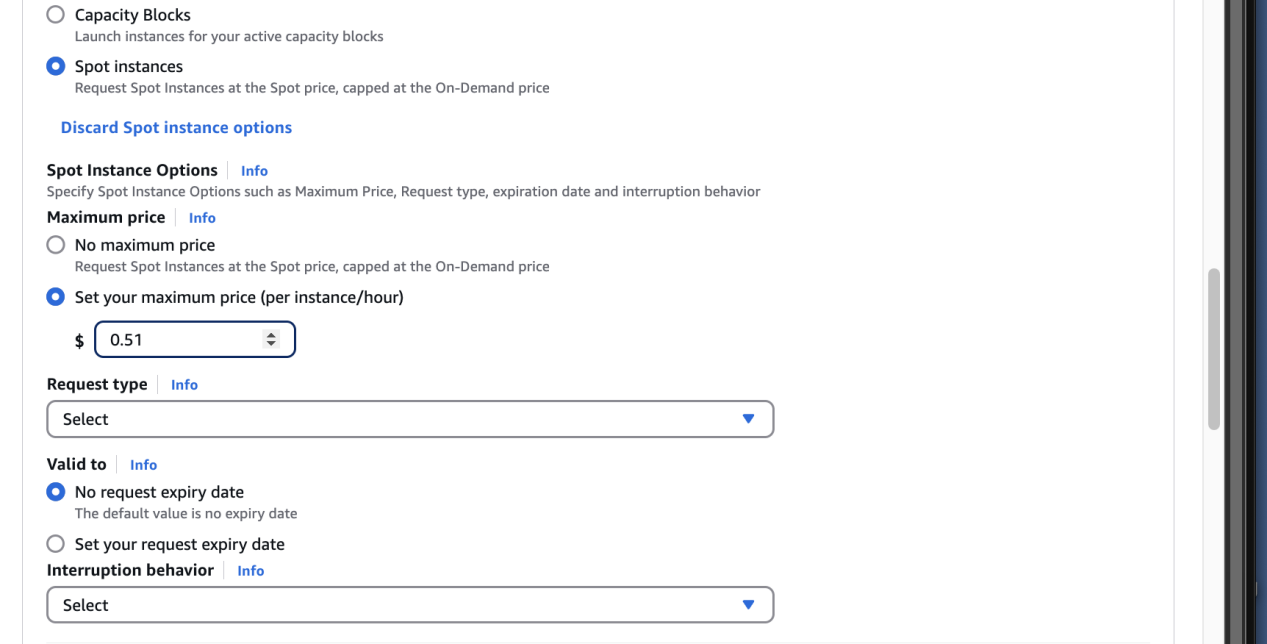
1:go to instance and click on launch instance

2:in that click on option spot instance

3:go to the option per hour instance and give the 0.51 $

4:launch the instance

5:after creation do the terminate .else it will be in running option

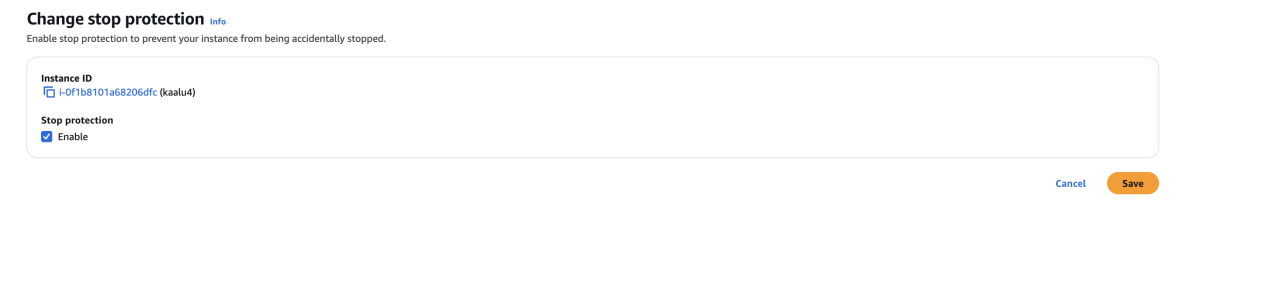


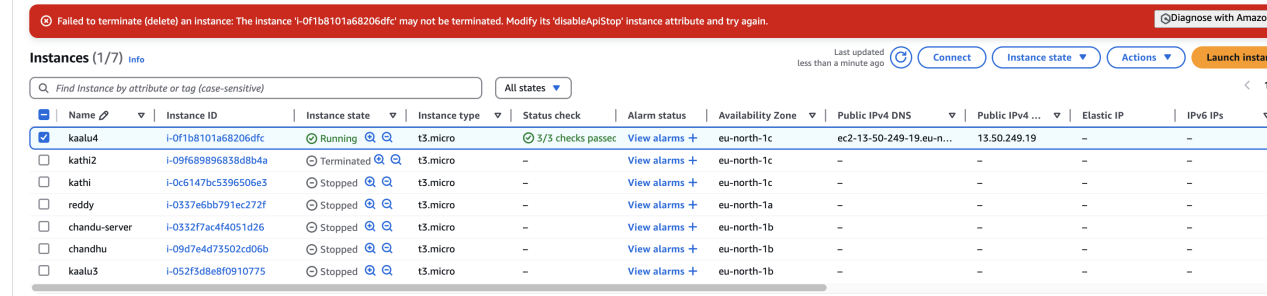
1. Enable Termination policy on ec2 created in Task

!:after launching the instance

2:right click on the instance and slect instance settings and select change stop protection

3:then click on enable

4:if you terminate the instance it will not terminate it will show fail 



8) Launch one ec2 using Aws CLI.

1:install aws cli from aws web

2:enter the aws configuers

AWS Access Key ID [\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*OCGD]: AKIATL5YU5EDUMQJ3D7O

AWS Secret Access Key [\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*vhh7]: 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

Default region name [us-east-1]: eu-north-1

Default output format [json]: json

3:then enter the keys

aws ec2 run-instances \

--image-id ami-05841d3d658588879 \

--count 1 \

--instance-type t3.micro \

--key-name mani-key-server \

--security-group-ids sg-091bd7fe2da18f803 \

--subnet-id subnet-0447dbd78cc13254c \

--tag-specifications 'ResourceType=instance,Tags=[{Key=Name,Value=CLI-Instance}]' \

--region eu-north-1

4 :aws ec2 describe-instances \

--filters "Name=key-name,Values=mani-key-server" \

--query "Reservations[\*].Instances[\*].PublicIpAddress" \

--region eu-north-1 \

--output text

13.50.249.152

13.53.194.212

