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

```
User data - optional | Info
Upload a file with your user data or enter it in the field.

Thoose file

#!/bin/bash
sudo yum update -y
sudo yum install httpd -y
sudo systemct! start httpd
sudo systemct! enable httpd
echo "<h1> hello I am aslam, i am creating this website</h1>" >/var/www/html/index.html

User data has already been base64 encoded
```

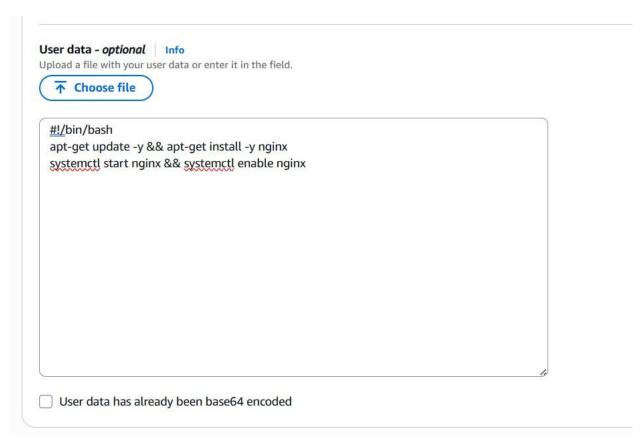
```
Coroup: Jasks: 177 (Jimit: 1111)

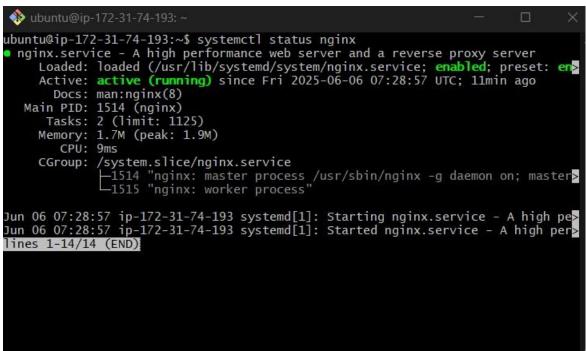
Jun 06 06:47:06 jp-172-31-78-150.ec2.internal systemd[1]: Starting httpd.service on Bytes introduced in Jun 06 06:47:06 jp-172-31-78-150.ec2.internal systemd[1]: Starting httpd.service introduced in Jun 06 06:47:06 jp-172-31-78-150.ec2.internal systemd[1]: Starting httpd.service introduced in Jun 06 06:47:06 jp-172-31-78-150.ec2.internal systemd[1]: Starting httpd.service introduced in Jun 06 06:47:06 jp-172-31-78-150.ec2.internal systemd[1]: Starting httpd.service introduced in Jun 06 06:47:06 jp-172-31-78-150.ec2.internal systemd[1]: Starting httpd.service introduced in Jun 06 06:47:06 jp-172-31-78-150.ec2.internal systemd[1]: Starting httpd.service in Jun 0
```

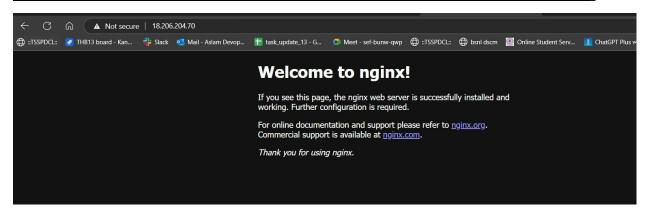


hello I am aslam, i am creating this website

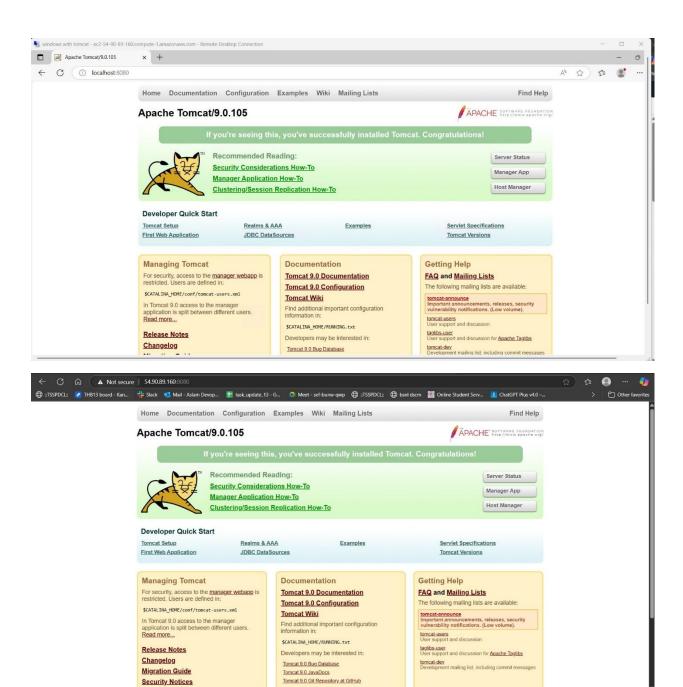
2) Launch one ec2 using Ubuntu image and add script in user data to install Nginx.





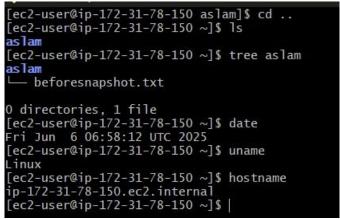


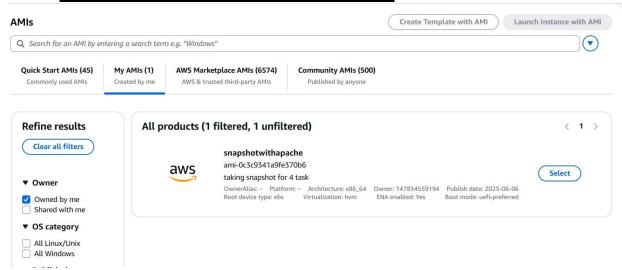
3) Launch one windows server and install tomcat in windows.



4) Take snapshot of the instane created in Task 1.

Before taking snapshot created directory and file and captured hostname with date and time





5) Assign password less authentication for ec2 created on Task 2.

Added the public key which I had generated for git hub in ubuntu to password less authentication

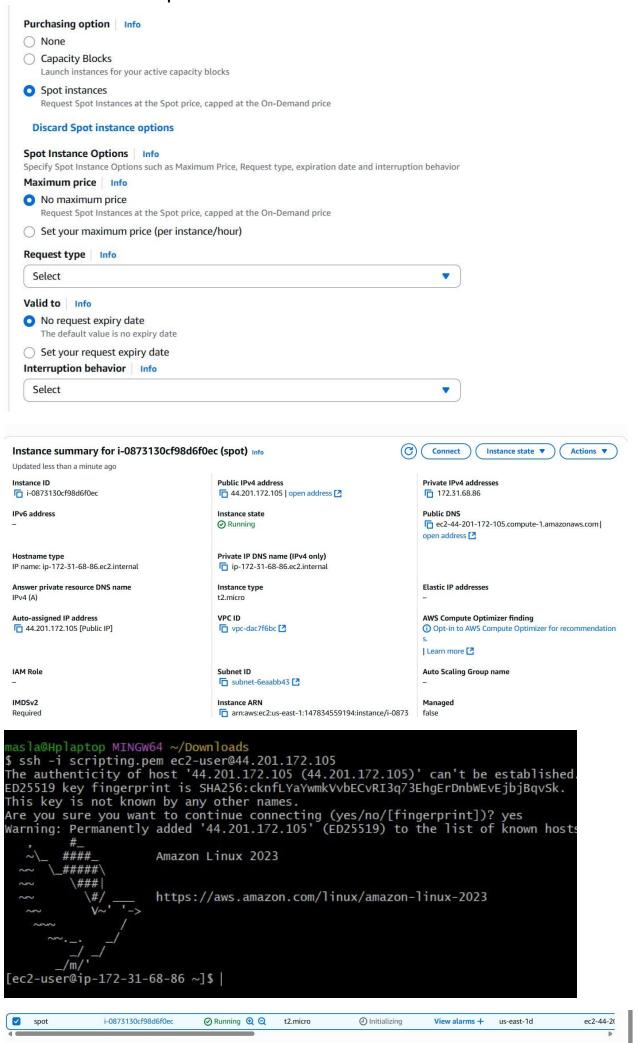
```
$ cat /c/Users/masla/.ssh/id_ed25519.pub
ssh-ed25519 AAAAC3NzaC1lZDI1NTE5AAAAIHgkeZmubmaroG7nDeO6ZGm18VEZdSwSzaM+9GjYUhfT
 masla@Hplaptop
masla@Hplaptop MINGW64 ~/<mark>Downloads</mark>
$ ssh -i scripting.pem ubuntu@18.206.204.70
Welcome to Ubuntu 24.04.2 LTS (GNU/Linux 6.8.0-1029-aws x86_64)
    Documentation: https://help.ubuntu.com
Management: https://landscape.canonical.com
Support: https://ubuntu.com/pro
 * Management:
* Support:
 System information as of Fri Jun 6 09:18:03 UTC 2025
  System load: 0.02
Usage of /: 29.0% of 6.71GB
Memory usage: 26%
                                                                                          108
                                                    Users logged in: 0
IPv4 address for enX0: 172.31.74.193
* Ubuntu Pro delivers the most comprehensive open source security and compliance features.
root@ip-172-31-74-193:/home/ubuntu/.ssh# cd
root@ip-172-31-74-193:~# ls
root@ip-172-31-74-193:~# exit
ubuntu@ip-172-31-74-193:~$ exit
logout
Connection to 18.206.204.70 closed.
masla@Hplaptop MINGW64 ~/<mark>Downloads</mark>
$ ssh ubuntu@18.206.204.70
Welcome to Ubuntu 24.04.2 LTS (GNU/Linux 6.8.0-1029-aws x86_64)
 * Documentation: https://help.ubuntu.com

* Management: https://landscape.canonical.com

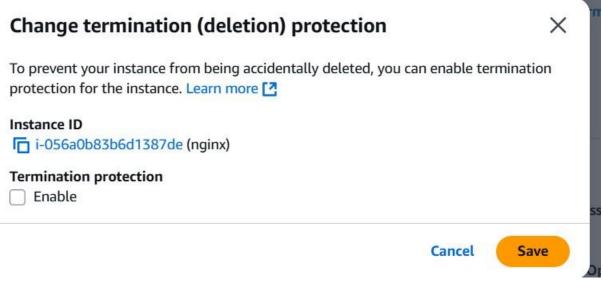
* Support: https://ubuntu.com/pro
 System information as of Fri Jun 6 09:20:52 UTC 2025
  System load: 0.0
Usage of /: 29.0% of 6.71GB
Memory usage: 25%
Swap usage: 0%
                                                                                          108
                                                     Processes:
                                                    Users logged in: 0
IPv4 address for enX0: 172.31.74.193
    Ubuntu Pro delivers the most comprehensive open source security and
    compliance features.
    https://ubuntu.com/aws/pro
Expanded Security Maintenance for Applications is not enabled.
2 updates can be applied immediately.
To see these additional updates run: apt list --upgradable
Enable ESM Apps to receive additional future security updates.
```

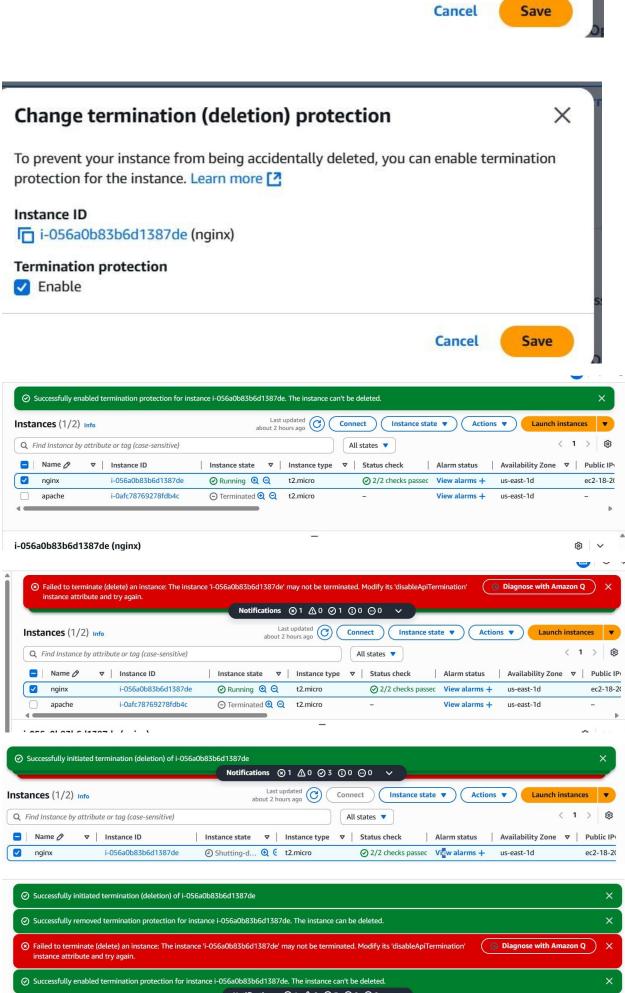
6) Launch any ec2 using spot purchasing option.

We are able to connect spot instance even before initialization



7) Enable Termination policy on ec2 created in Task 2.





8) Launch one ec2 using Aws CLI.

```
masla@Hplaptop MINGW64 ~/Downloads
$ aws configure
AWS Access Key ID [*******************94M2]: AKIASE25ALLNFHKHNDOU
AWS Secret Access Key [***************94M2]: 1KFde8qjPrILXdvrcIn+iJiLH0jAPSIygV
cSviA+
Default region name [us-east-1]: us-east-1
Default output format [text]: text

masla@Hplaptop MINGW64 ~/Downloads
$ aws ec2 create-key-pair --key-name MyKeyPair --query 'KeyMaterial' --output te
xt > MyKeyPair.pem

masla@Hplaptop MINGW64 ~/Downloads
```

