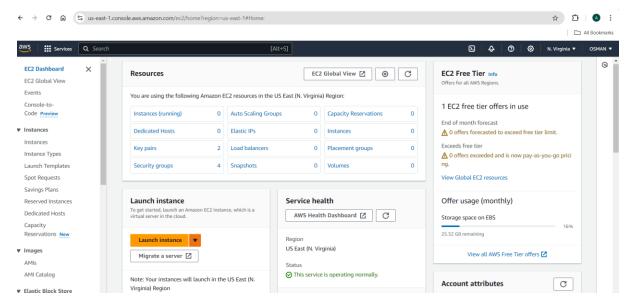
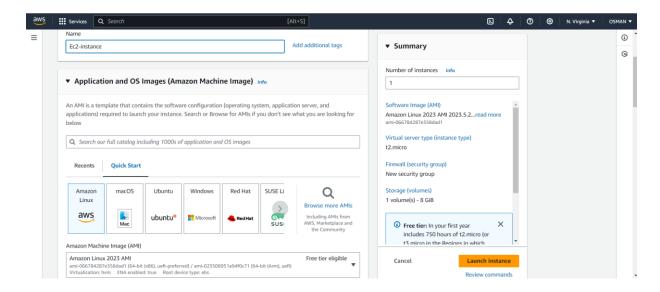
Task on Ec2:

========

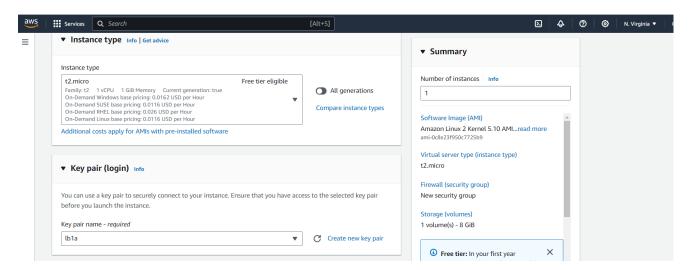
- 1) Launch one ec2 using Amazon Linux 2 image and add script in user data to install Apache.
 - First need Login the console and search for ec2 instance.
 - You will see the below interface just click on the Launch instance.



- Then you see the below interface.
- Give name and select the AMI
- AMI ---> Ami is pre-configured virtual machine template. That means Ami is the blue print for launching the ec2 instance. You can use an ami to create and launch instances.

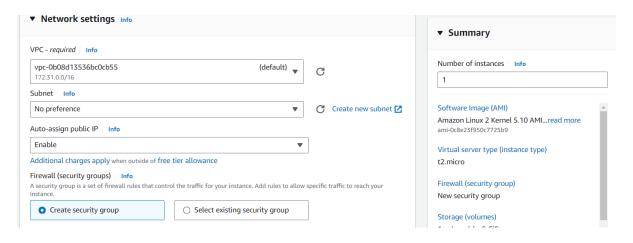


• Next you have to select the instance type and key pair.



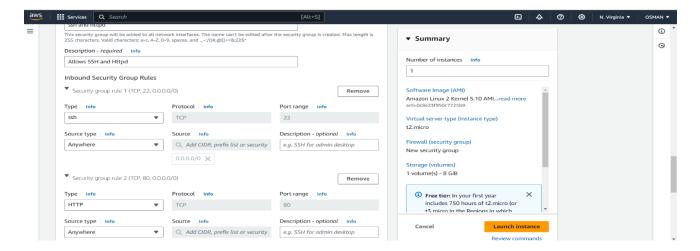
Next Go to network setting.

Select VPC and subnets.

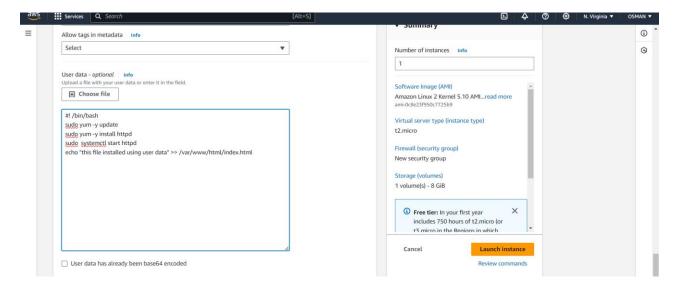


Next go to the Security Groups.

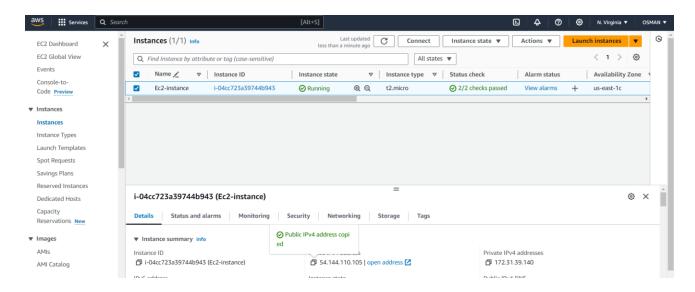
If you have already select form directly by clicking existing security group. Otherwise create.



- Click on the advance setting and scroll up last there you find the user data.
- What I am given script give and click launch instance.

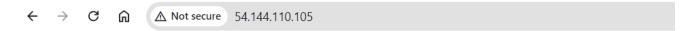


- Now you will see the instance.
- Wait for status check is 2/2 check pass until wait.



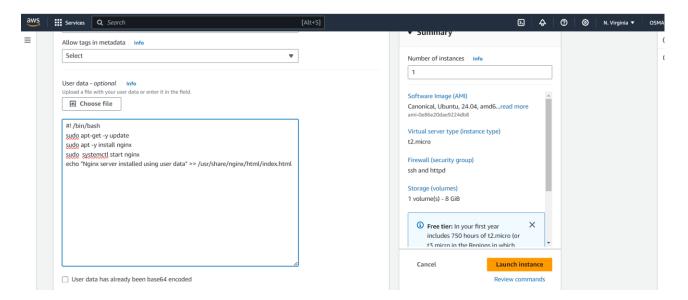
Copy the Ip address and pate the google.

With ip you can give port also \rightarrow Ip:80



this file installed using user data

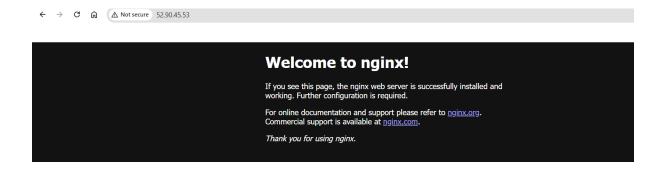
- 2) Launch one ec2 using Ubuntu image and add script in user data to install Nginx.
 - The above task we use the all steps like, instance type, key pair, Security groups.
 - Ami is diff because we using in these task Ubuntu machine.
 - here also use same thing but diff is change the script.
 - After completed the all configuration go to the user data.



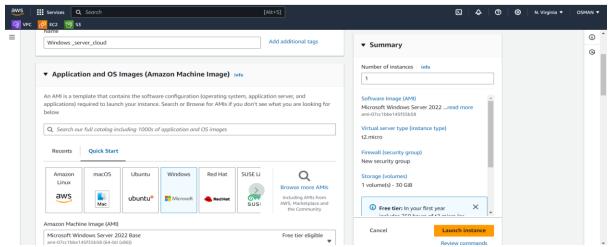
Just click on launch instance.

Copy the Ip address and pate the google.

With ip you can give port also \rightarrow Ip:80

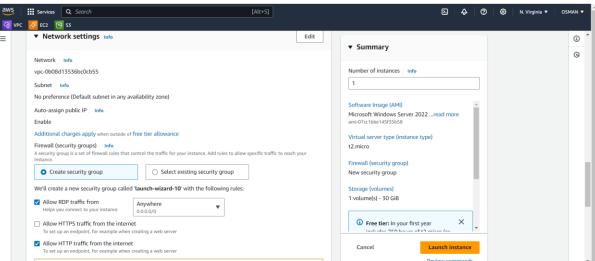


- 3) Launch one windows server and install tomcat in windows.
 - just click on the Launch instance.
 - You will see the below interface and select Ami is Windows.

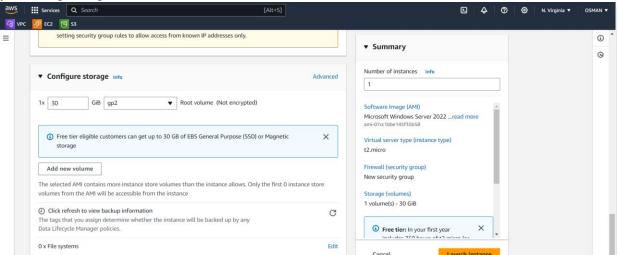


Next select the key pair.

Go to the network setting select RDP and http.

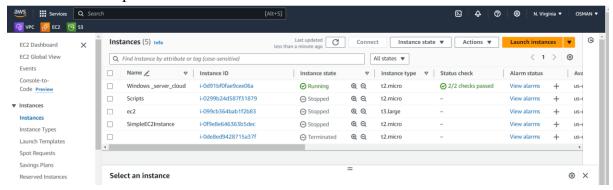


Here one thing actually any linux server get storage only 8Gb default but in windows you will get 30gb.

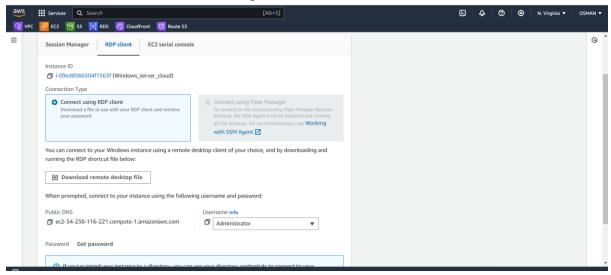


Just click on launch instance.

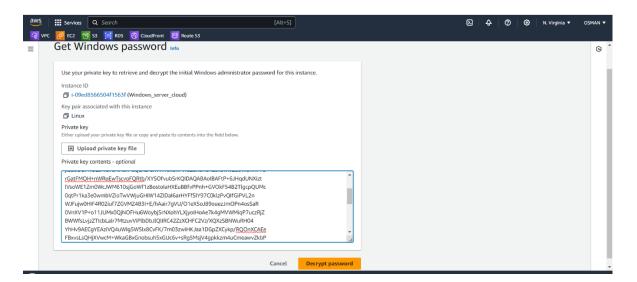
Here 2/2 check is pass.



- Just click on connect
- Select RDP client.
- Click on -→ Download remote desktop file



- After click on get password.
- The below interface you will see.
- Here upload the key file and click on the Decrypt password.

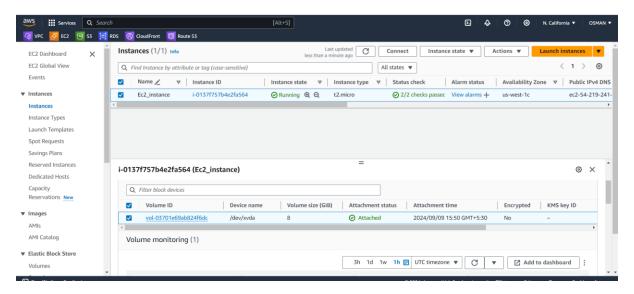


- Then you will get one password keep it any notepad otherwise you loose you password.
- These above task is pending

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

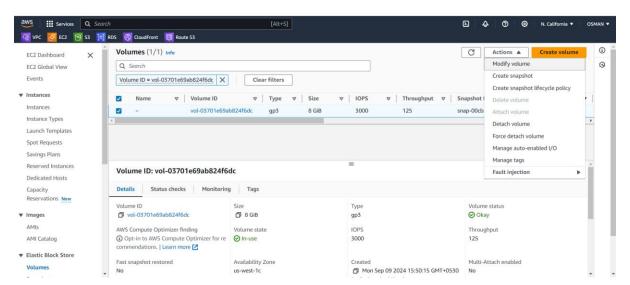
Now I am taking the snapshot of the instance.

Select instance and click on storage there you will find volume click on that volume id.

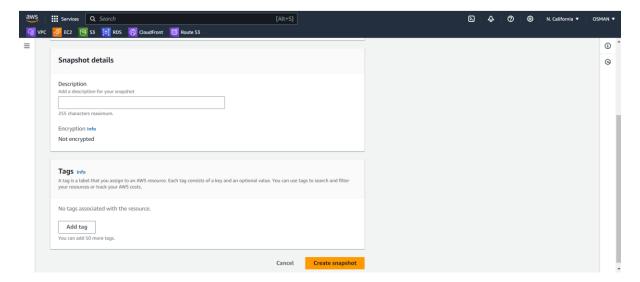


Click on checkbox off volume and go to the actions.

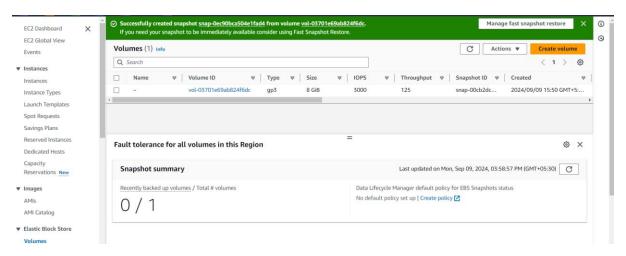
Click on Create snapshot.



Give description and click on create snapshot.



Done.



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

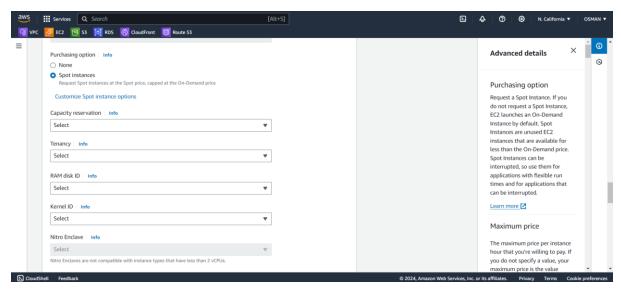
To Assign password less authentication for ec2 created on Task 2 first we have to go the Local terminal and generate ssh key and copy.

Now go to these .ssh dir.

Copy these key CMD-→cat id_rsa.pub and pate in remote ec2.

Here without key pair we are login.

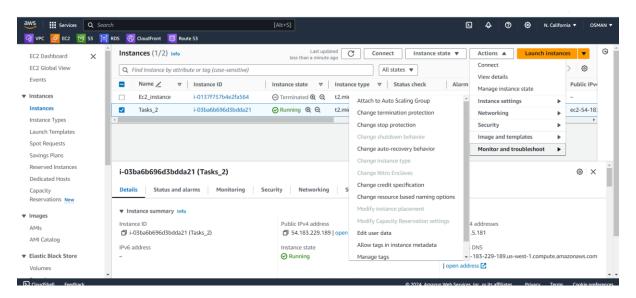
- 6) Launch any ec2 using spot purchasing option.
 - The above task we use the all steps like, AMI, instance type, key pair, Security groups.
 - But In advance Setting --- Purchasing option you have to select the option is Spot instances.



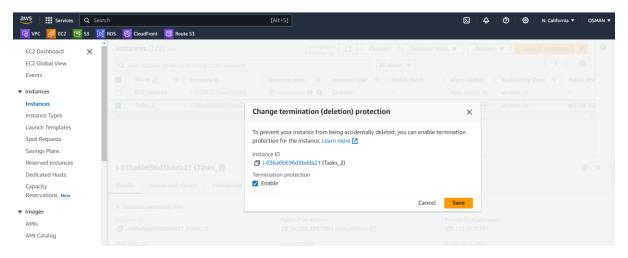
• Just launch click on launch instance.

#######Task is Done################

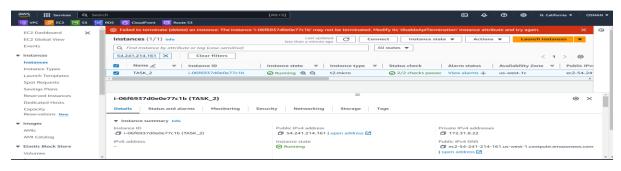
- 7) Enable Termination policy on ec2 created in Task 2.
 - Select the instance by clicking on the checkbox next to the instance ID.
 - Click the **Actions** button at the top.
 - Under "Instance Settings," click on **Change Termination Protection**.



• In the pop-up window, select **Enable** and click **Save**.



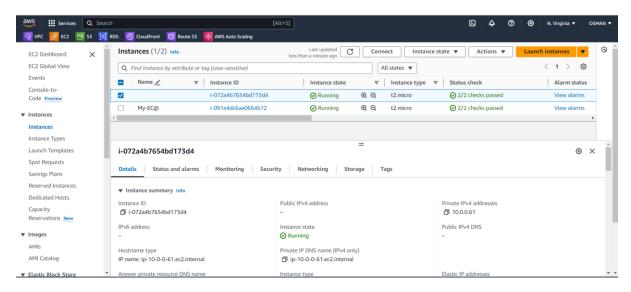
• Try to delete the instance but instance will not deleted.



- 8) Launch one ec2 using Aws CLI.
 - First you need to connect Ec2 instance or go to your local terminal.
 - You are using Local terminal you need to install the AWS cli.
 - Here I am connected to EC2 so no need to install aws cli.
 - After connecting EC2 you need to configure.
 - Give the access key and secret key.

- If you have already key pair, security group, subnet in aws account just copy the id's and paste.
- Make sure the subnet and security group within the same network.

- Now go to the Aws instance there you will find out the new server.
- Successfully we are launched one ec2 instance through CLI.



Once check the details like, SG, Key pair, subnet.

