

Amazon EC2-

Amazon Elastic Compute Cloud is a web service that provides secure, resizable compute capacity in the cloud.

Amazon EC2 provides cloud hosted virtual machines, called “instances”, to run applications.

To launch a instance:

Step-1: Choose an Amazon Machine Image

Step-2: Choose an instance type

Step-3: Configure instance

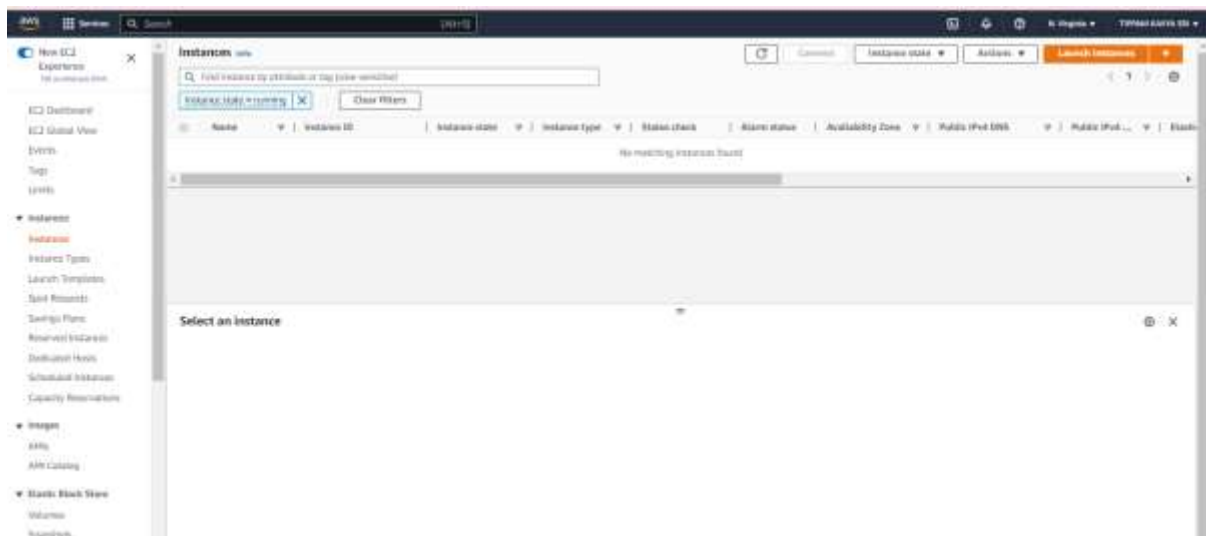
Step-4: Add storage

Step-5: Add tags

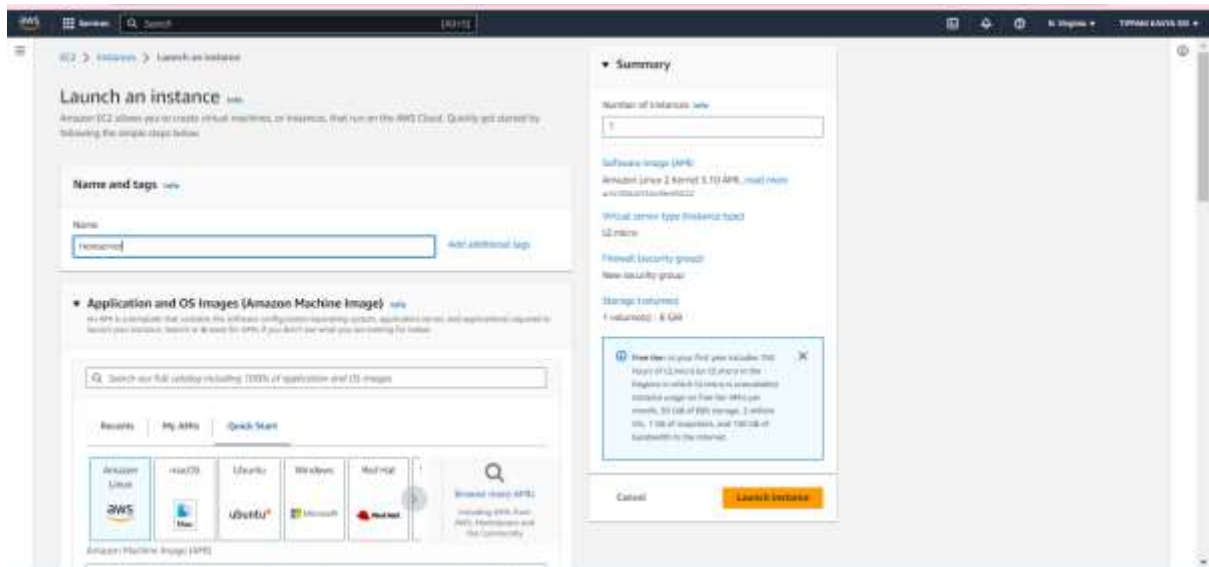
Step-6: Configure security group

Step-7: review launch instance and select key pair

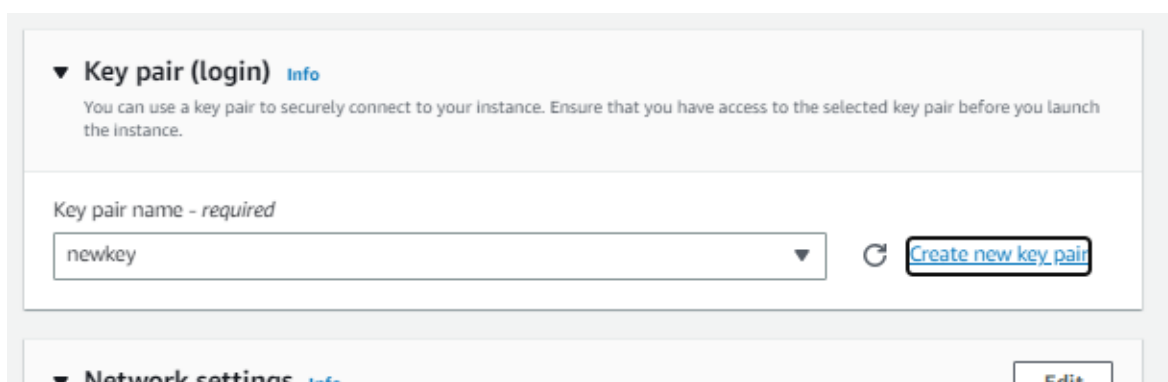
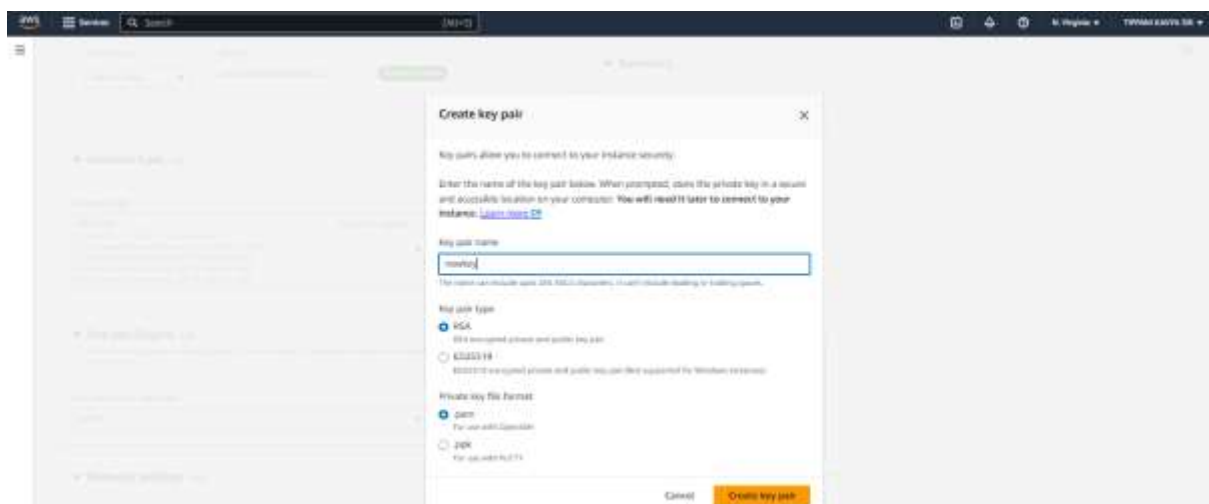
1.EC2 instance launch page



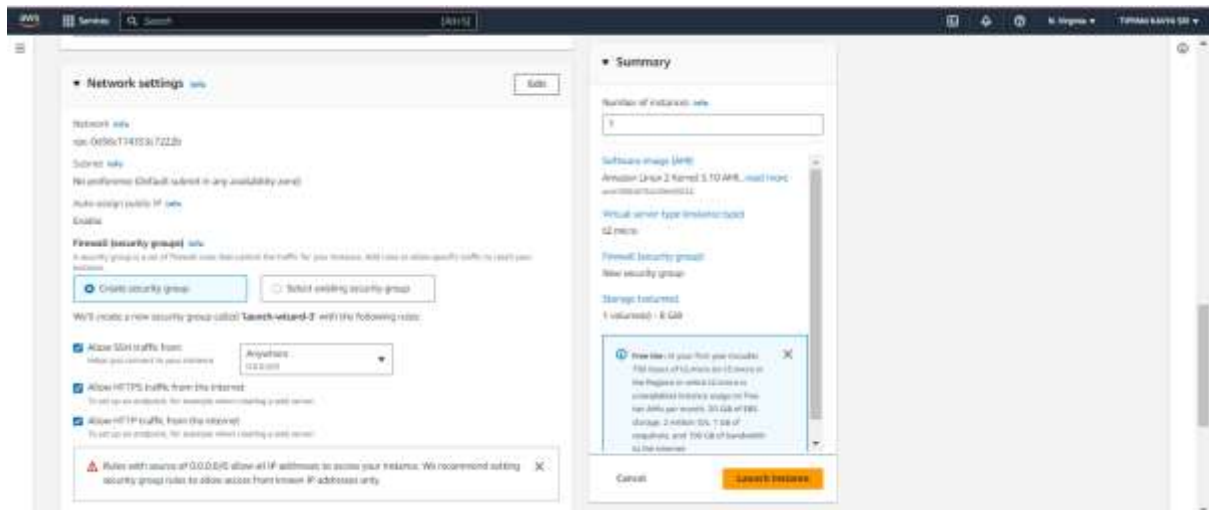
2.EC2 name and tag creation and also choose AMI



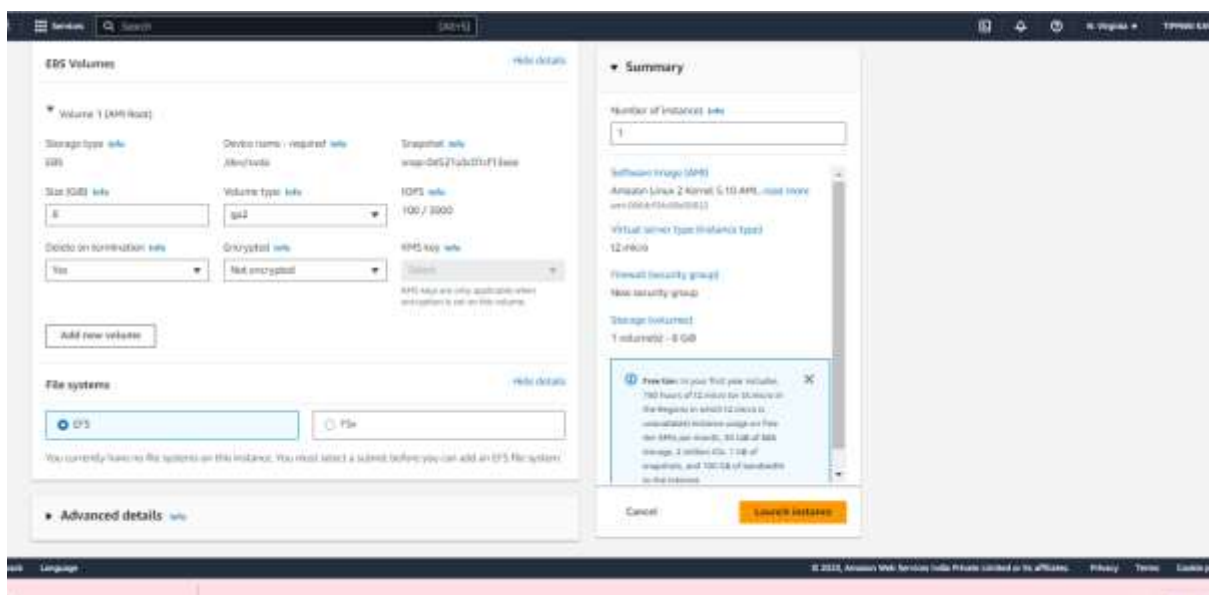
3. EC2 keypair selection



4. EC2 security group creation (SSH, HTTP, HTTPS) . EC2 VPC and subnet selection

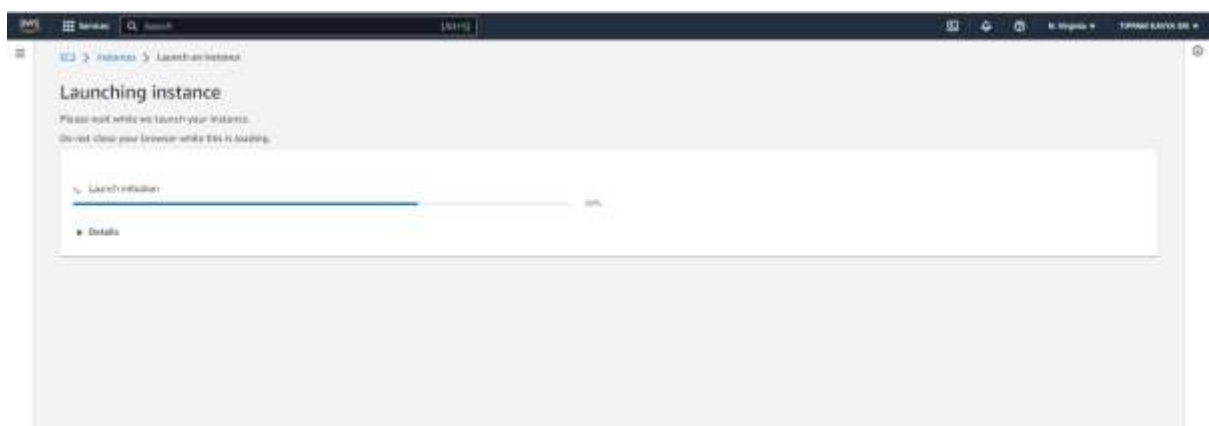
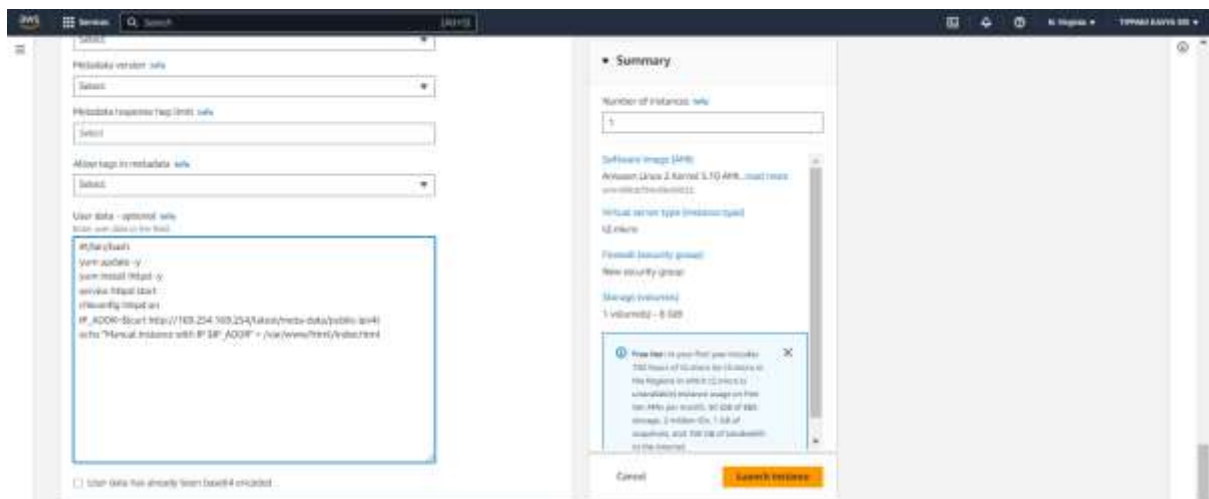


5. EC2 EBS volume selection

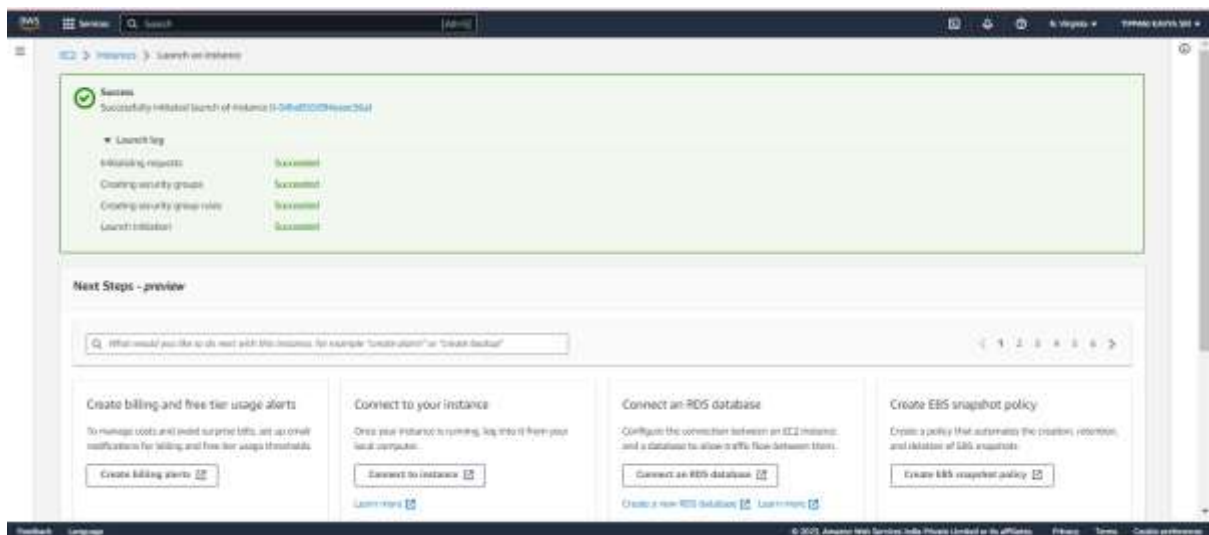


6. User data insertion page

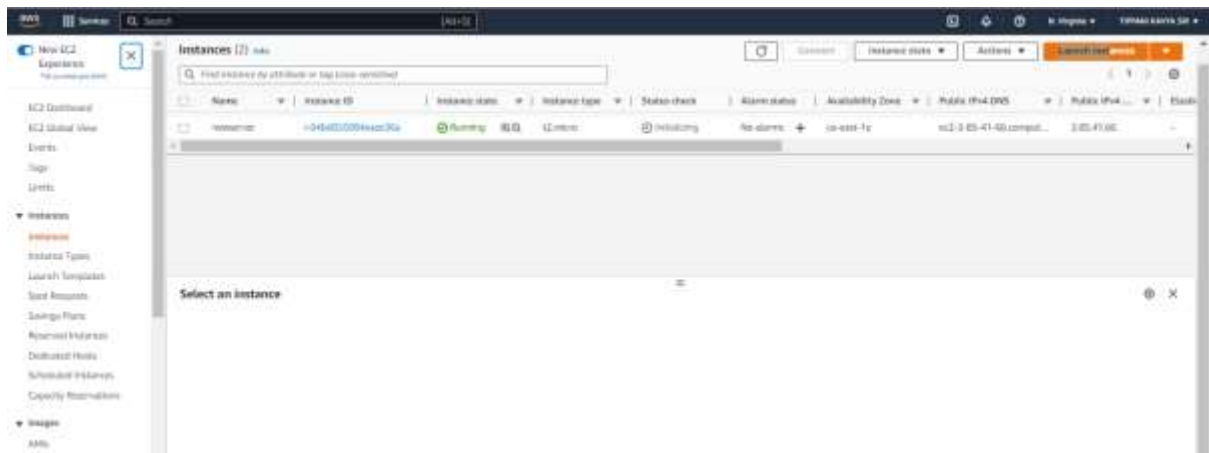
```
#!/bin/bash
yum update -y
yum install httpd -y
service httpd start
chkconfig httpd on
IP_ADDR=$(curl http://169.254.169.254/latest/meta-data/public-ipv4)
echo "Manual instance with IP $IP_ADDR" > /var/www/html/index.html
```



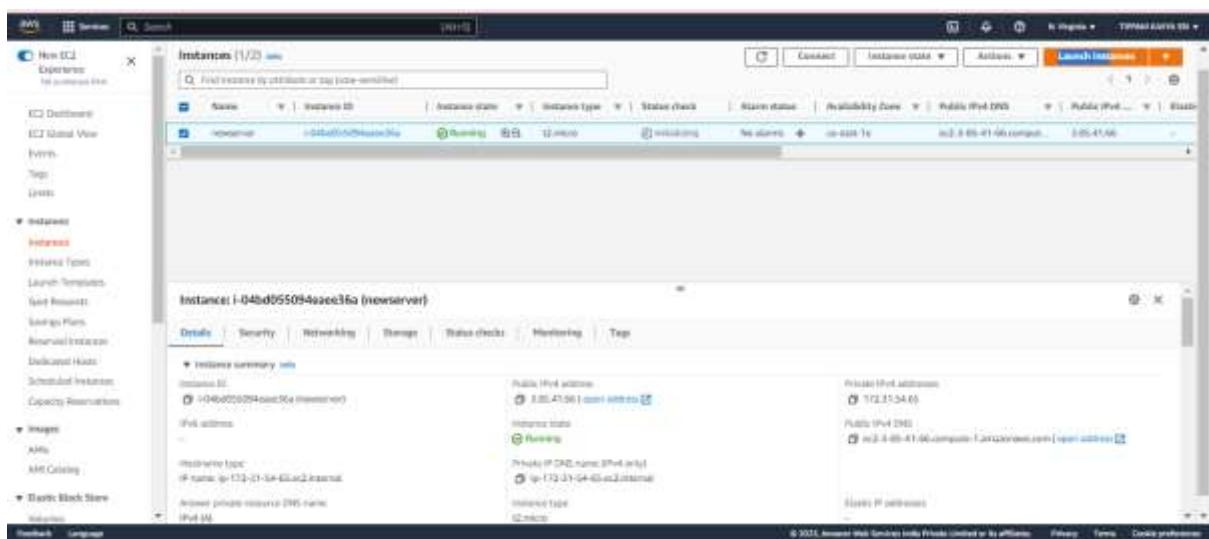
7. EC2 instance logs



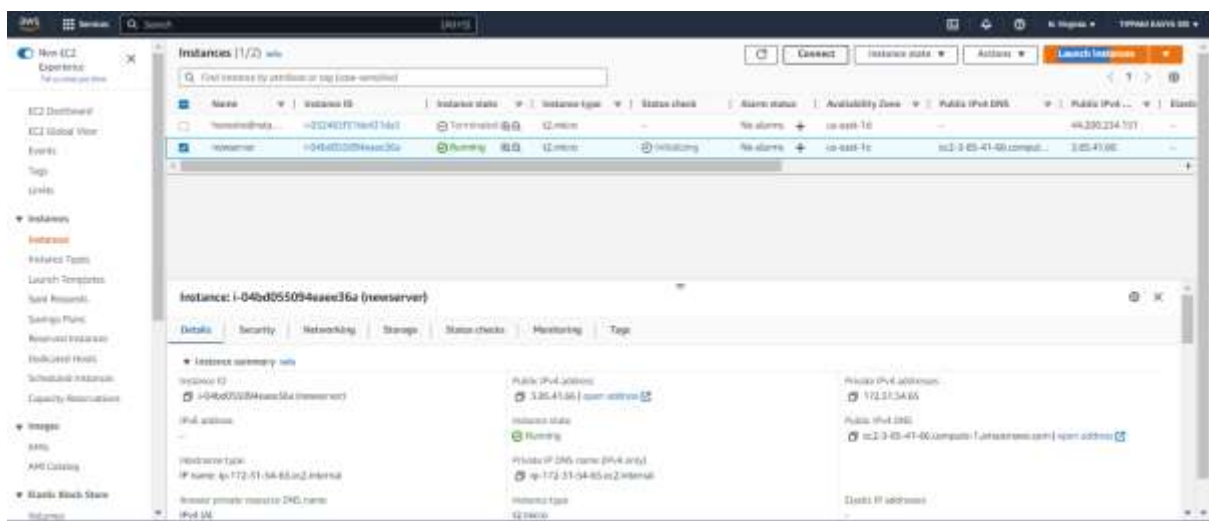
8. EC2 instance running state



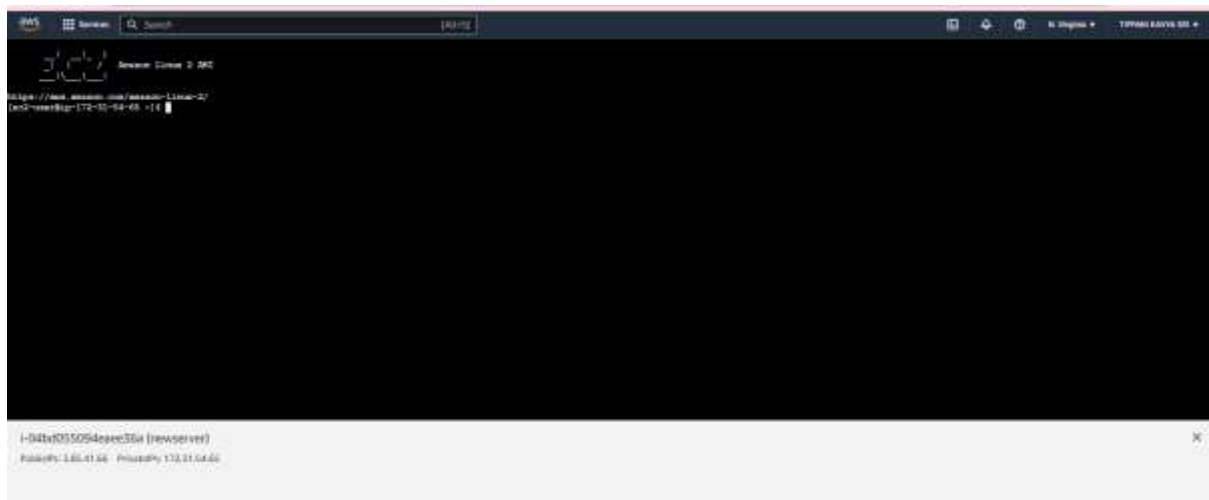
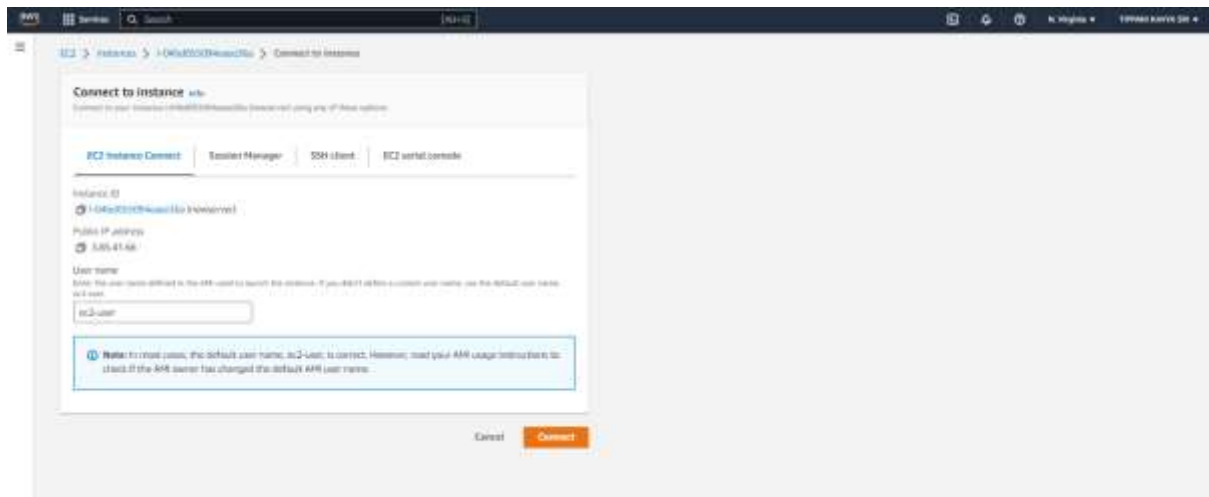
9.EC2 summary page with Public and Private IP



Installing a simple http web server

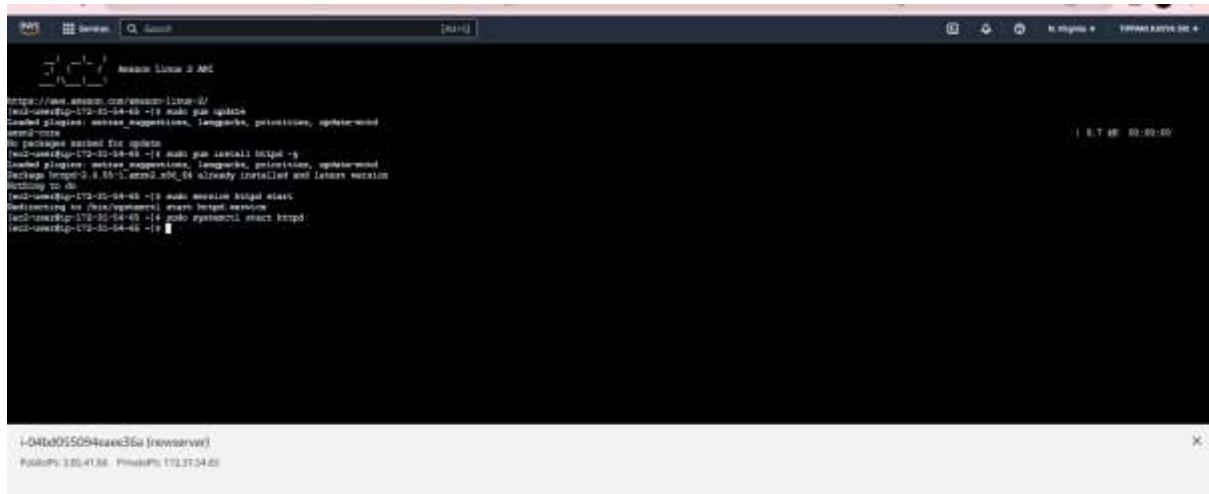


connect to the ec2 instance



Commands:

- >sudo yum update
- >sudo yum install httpd -y
- >sudo service httpd start
- >sudo systemctl start httpd



```
aws --profile default ec2 connect --instance-id i-04bd055094eac36a --region us-east-1
https://aws.amazon.com/ec2/instance-connect/
awscli-linux-172-31-34-45 -f1 sudo yum update
Loaded plugins: update_suggestions, langpacks, priorities, update-mod
no packages marked for update
awscli-linux-172-31-34-45 -f1 sudo yum install httpd -y
Loaded plugins: update_suggestions, langpacks, priorities, update-mod
Package httpd-2.4.6-1.el7.x86_64 already installed and latest version
Nothing to do
awscli-linux-172-31-34-45 -f2 sudo systemctl start httpd
Redirecting to /bin/systemctl start httpd.service
awscli-linux-172-31-34-45 -f4 sudo systemctl start httpd
awscli-linux-172-31-34-45 -f1
```

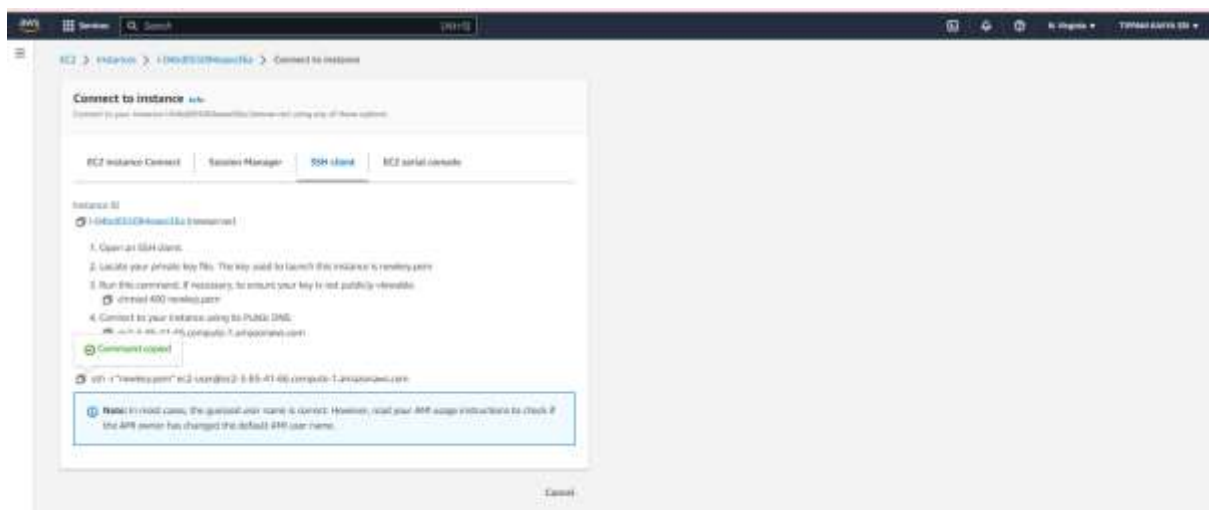
i-04bd055094eac36a (newservers)
PublicIP: 3.85.41.66 PrivateIP: 172.31.34.65

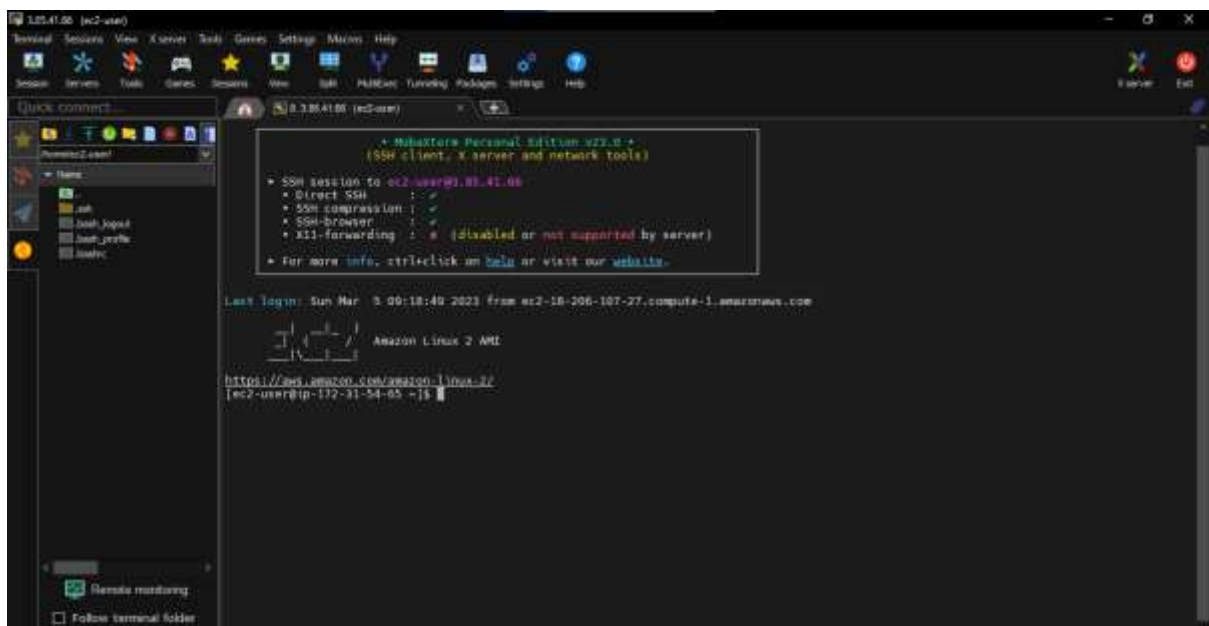
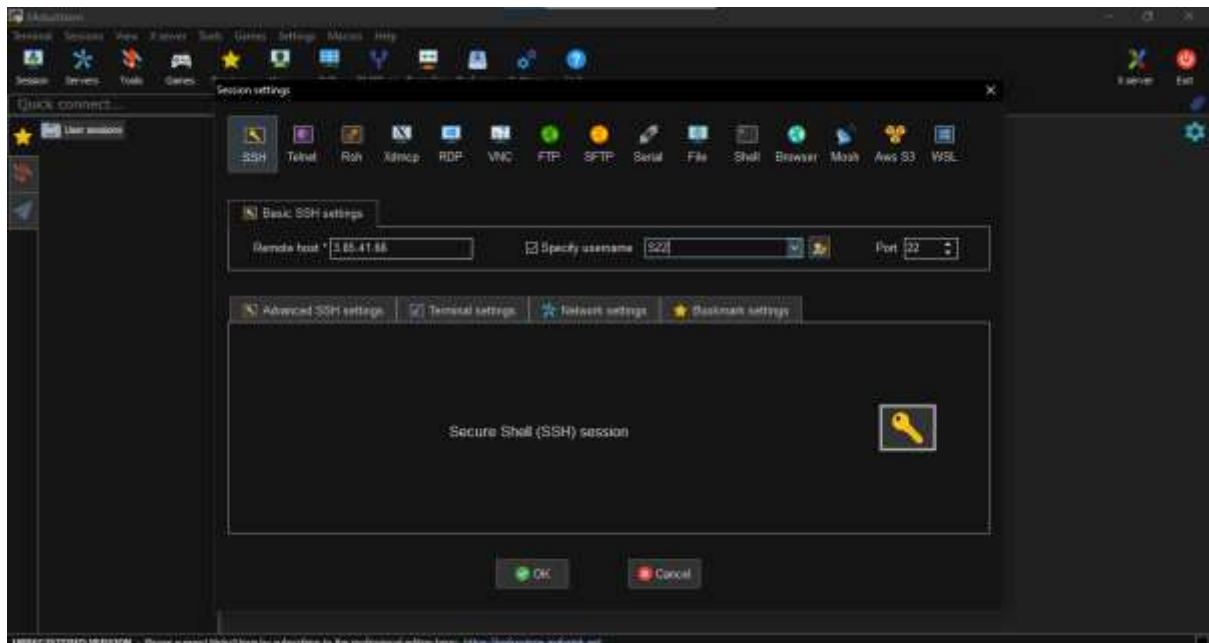
Now copy the public ip and paste in the web browser



Connect to the instance via SSH

->SSH access of EC2 instance in local machine





terminate the ec2-instance

Instances (1/2) view

Name	Instance ID	Instance state	Instance type	Status check	Alarm status	Availability Zone	Public IPv4 DNS	Public IP
newsrvr...	i-04bd055094eae36a	Terminated	t2.micro	-	No alarms	us-east-1a	-	44.200.234.101
newsrvr...	i-04bd055094eae36a	Running	t2.micro	2/2 checks passed	No alarms	us-east-1a	ec2-3-20-47-66.compute-1.amazonaws.com	3.85.47.66

Instance: i-04bd055094eae36a (newsrvr)

Details | Security | Networking | Storage | Status checks | Monitoring | Tags

Instance summary

Instance ID: i-04bd055094eae36a (newsrvr)
 Public IPv4 address: 3.85.47.66 | [open address](#)
 Instance state: **Running**
 Private IP (DNS name): 172.31.54.65
 Public IP (DNS name): ec2-3-20-47-66.compute-1.amazonaws.com | [open address](#)
 Private IP (DNS name): 172.31.54.65
 Public IP (DNS name): ec2-3-20-47-66.compute-1.amazonaws.com | [open address](#)
 Elastic IP address: -

Terminate instance?

On an EBS-backed instance, the default action is for the root EBS volume to be deleted when the instance is terminated. Storage on any local drives will be lost.

Are you sure you want to terminate these instances?
 i-04bd055094eae36a (newsrvr)

To confirm that you want to terminate the instances, choose the terminate button below. Terminating the instance cannot be undone.

Cancel **Terminate**

newsrvr...

Name	Instance ID	Instance state	Instance type	Status check	Alarm status	Availability Zone	Public IPv4 DNS	Public IP
newsrvr...	i-04bd055094eae36a	Shutting-down	t2.micro	2/2 checks passed	No alarms	us-east-1a	ec2-3-20-47-66.compute-1.amazonaws.com	3.85.47.66