



AWS Project

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Mallikarjun K

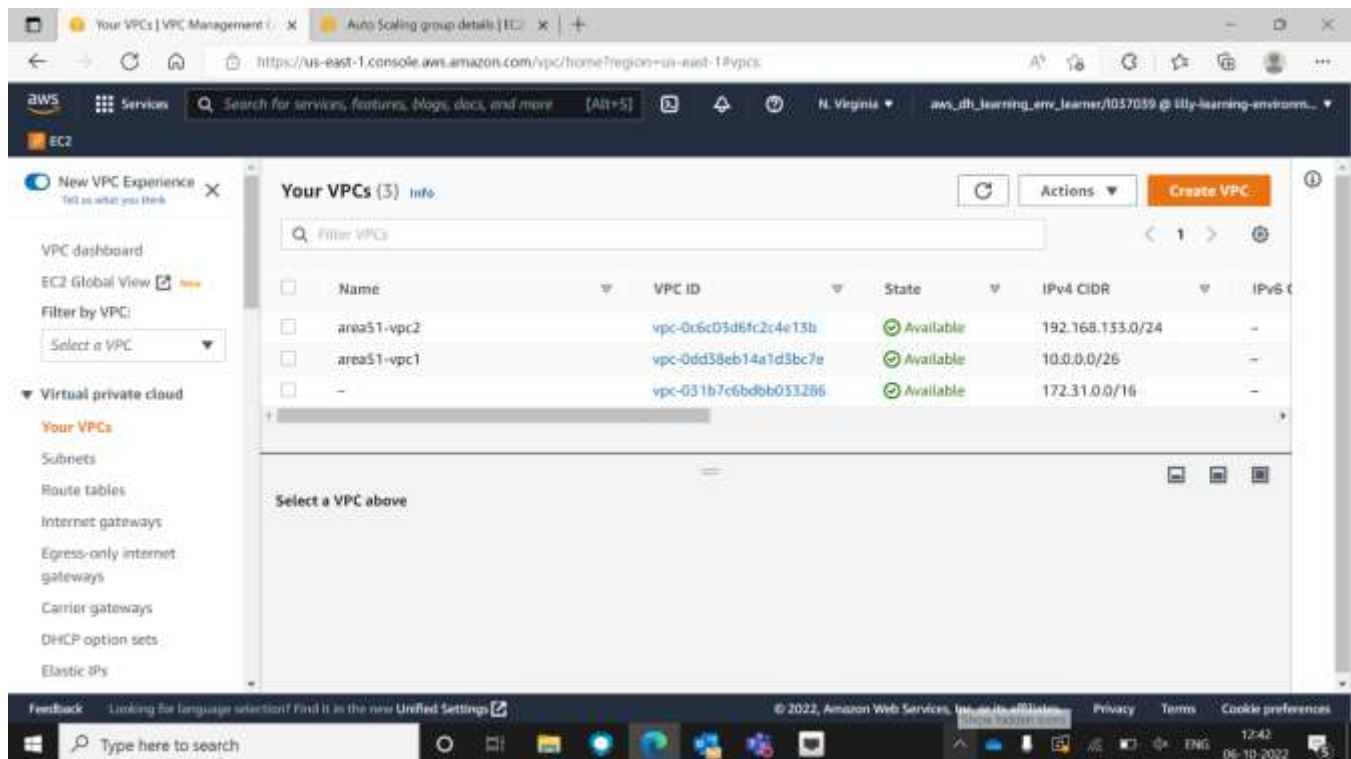
Rishi M K

Shashank B

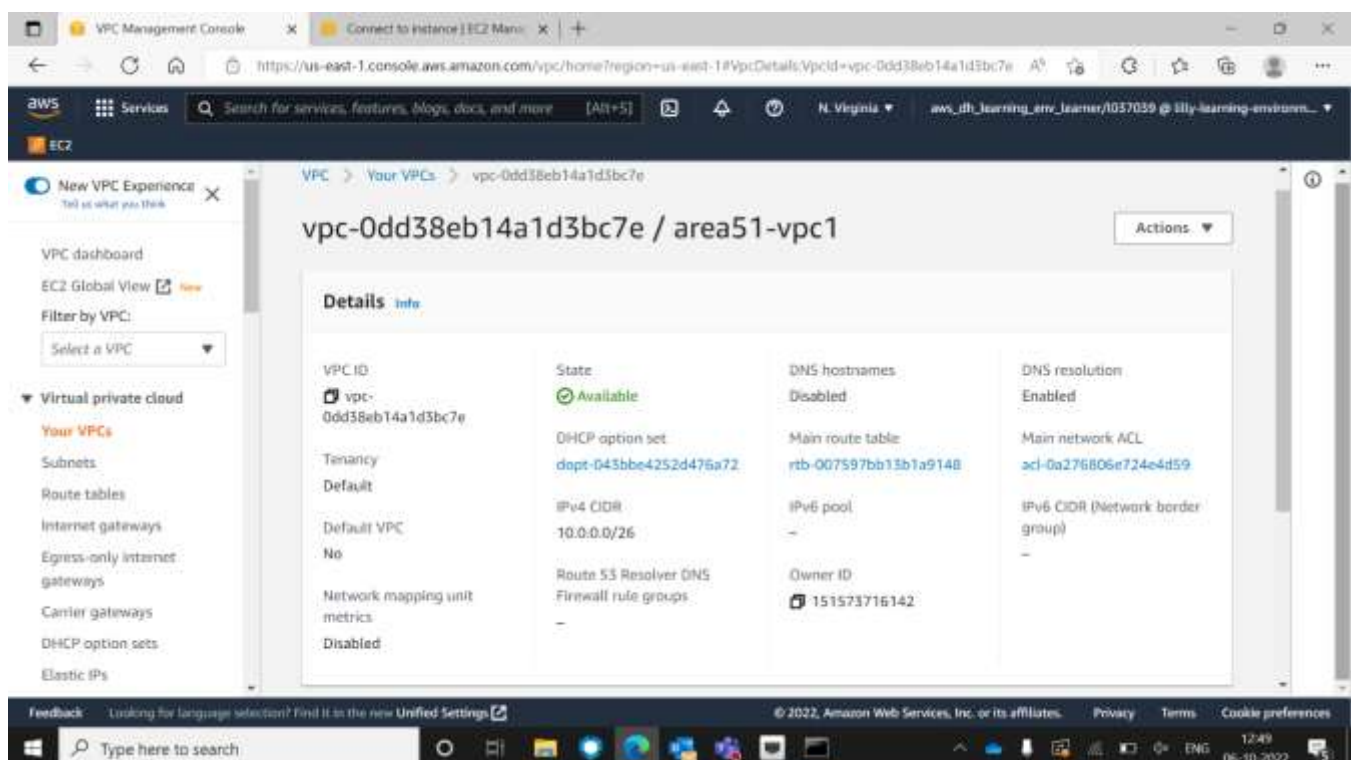
Group Name: Area51

1. 2 VPC Creation

Two VPC has been created with “area51-vpc1” and “area51-vpc2”.

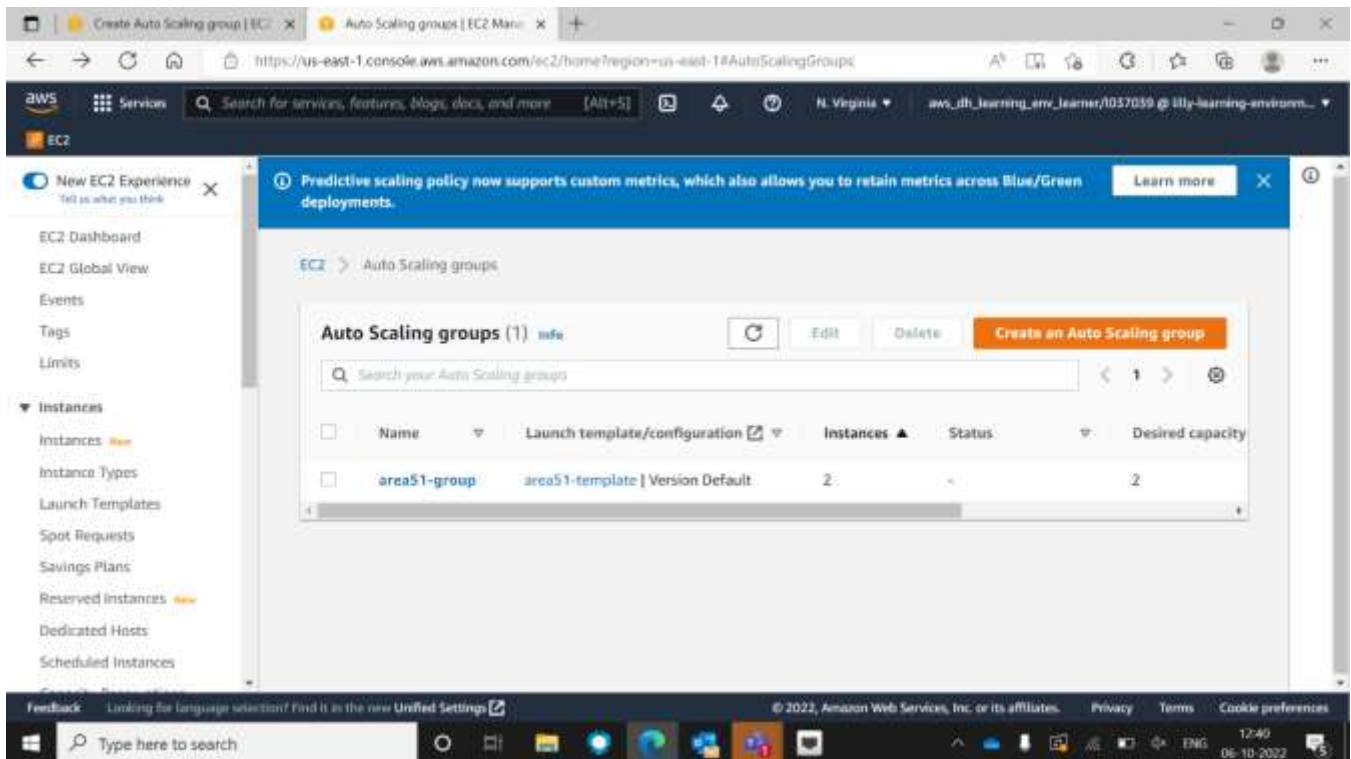


Screen captures of description of “area51-vpc1” with CIDR no. “10.0.0.0/26”, as we need to add 4 subnets in this VPC. Two should private and two should public.

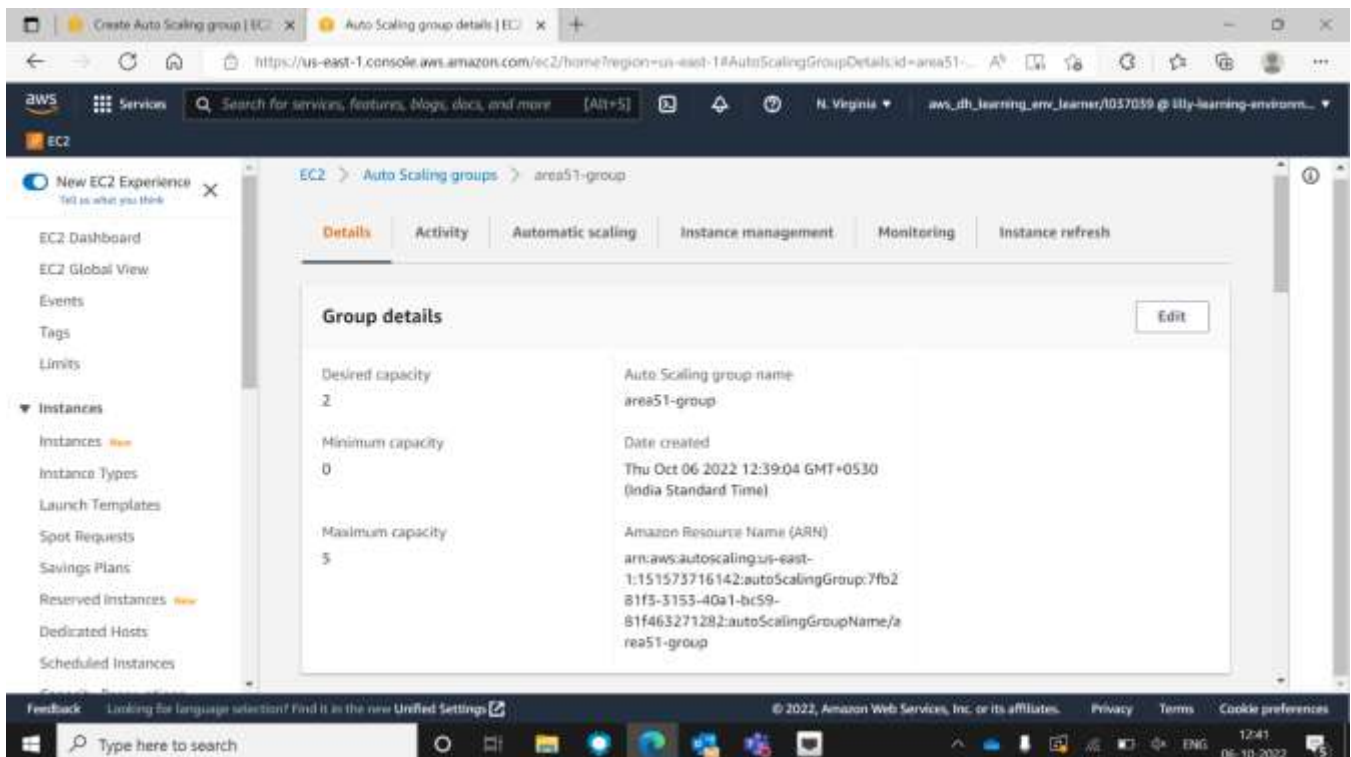


2. Creation of autoscaling group.

Auto Scaling Group has created with name “area51-group”

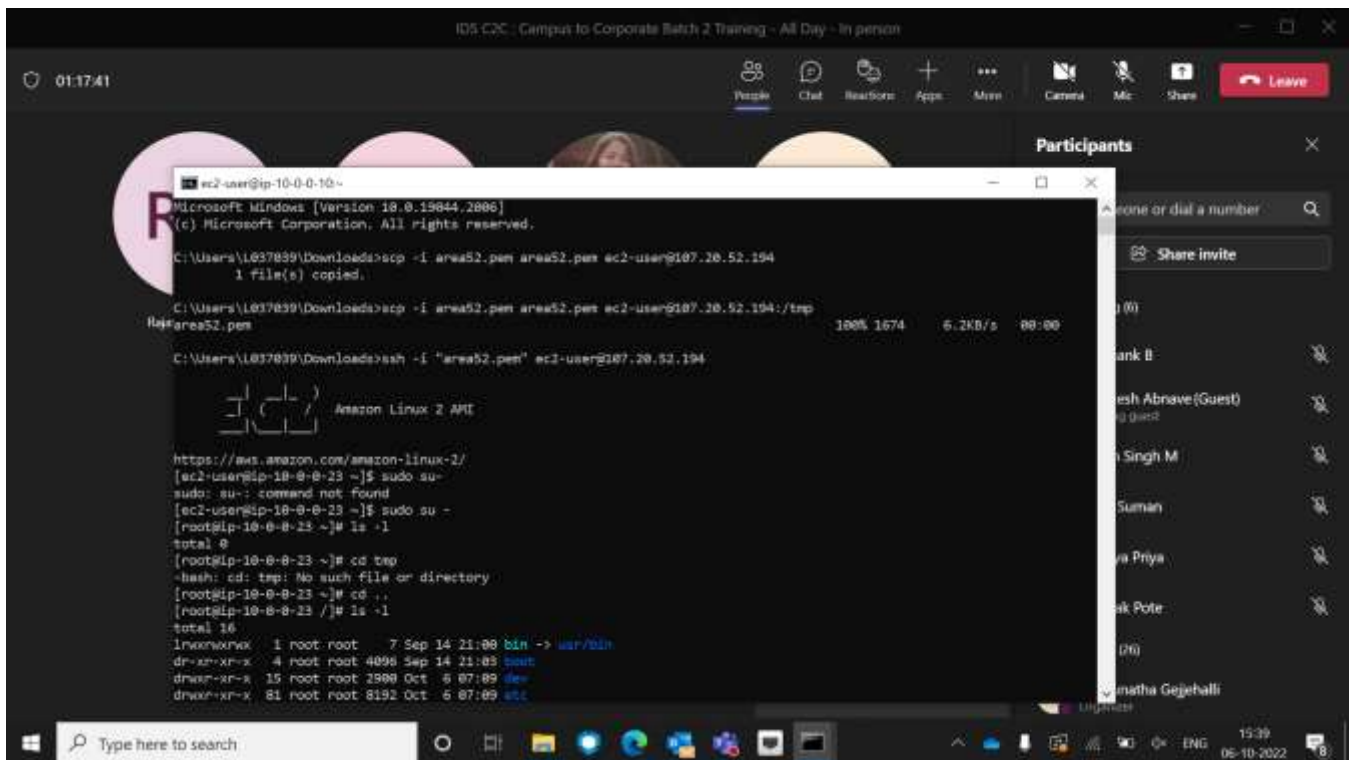


Details of auto scaling group “area51-group”

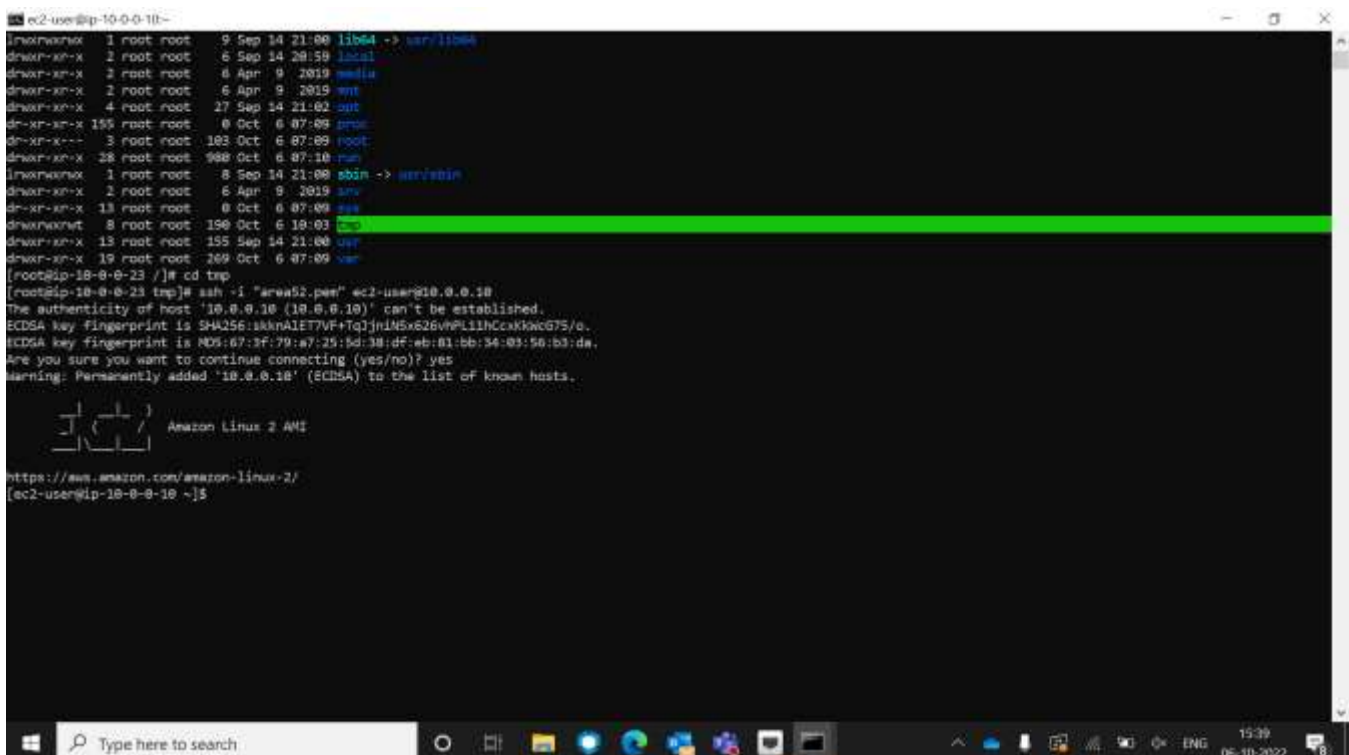


3. After creation of ec2- successfully, Connecting to Private ec-2 Linux Machine.

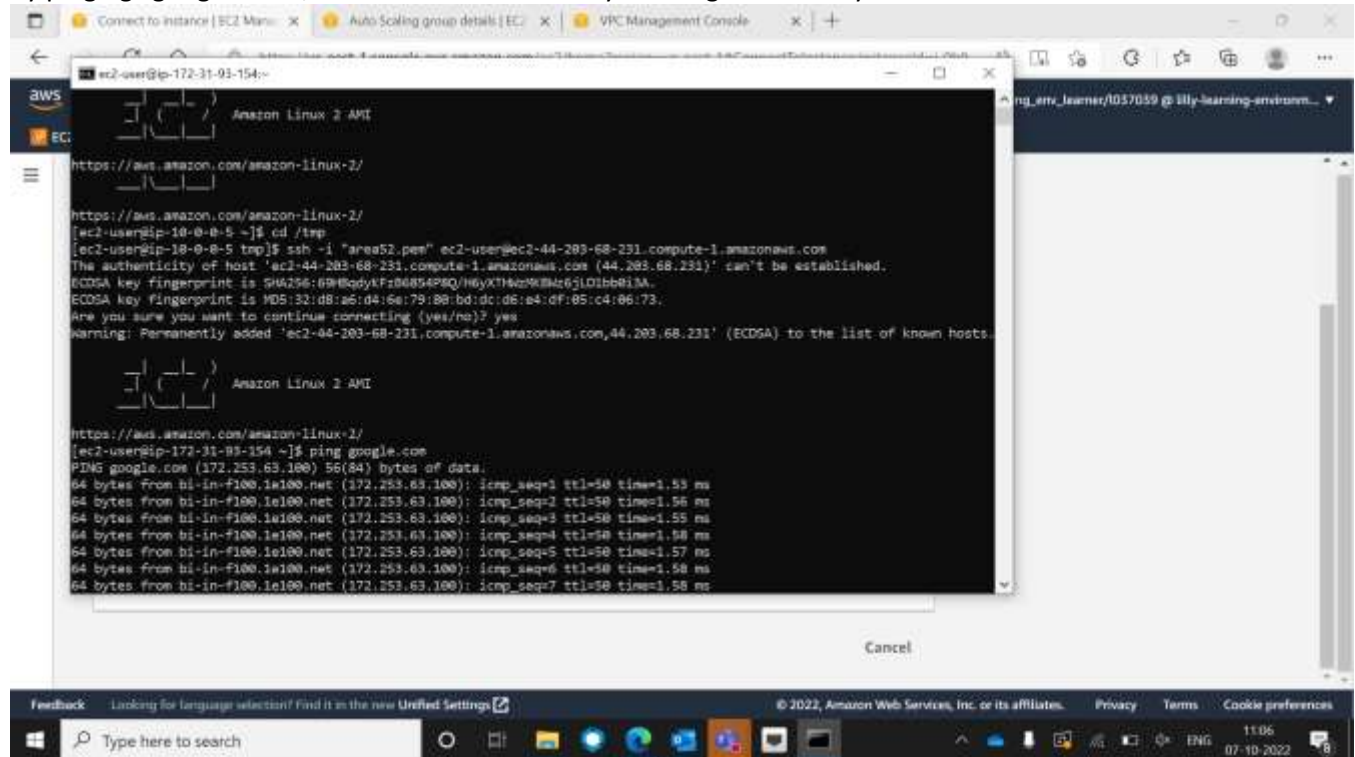
Logging to ec2- public, Linux Machine with public IP “107.20.52.194”



Logging to private ec2-Linux Machine, with private IP address “10.0.0.10”



By pinging "google.com", we can see NAT Gateway working successfully.

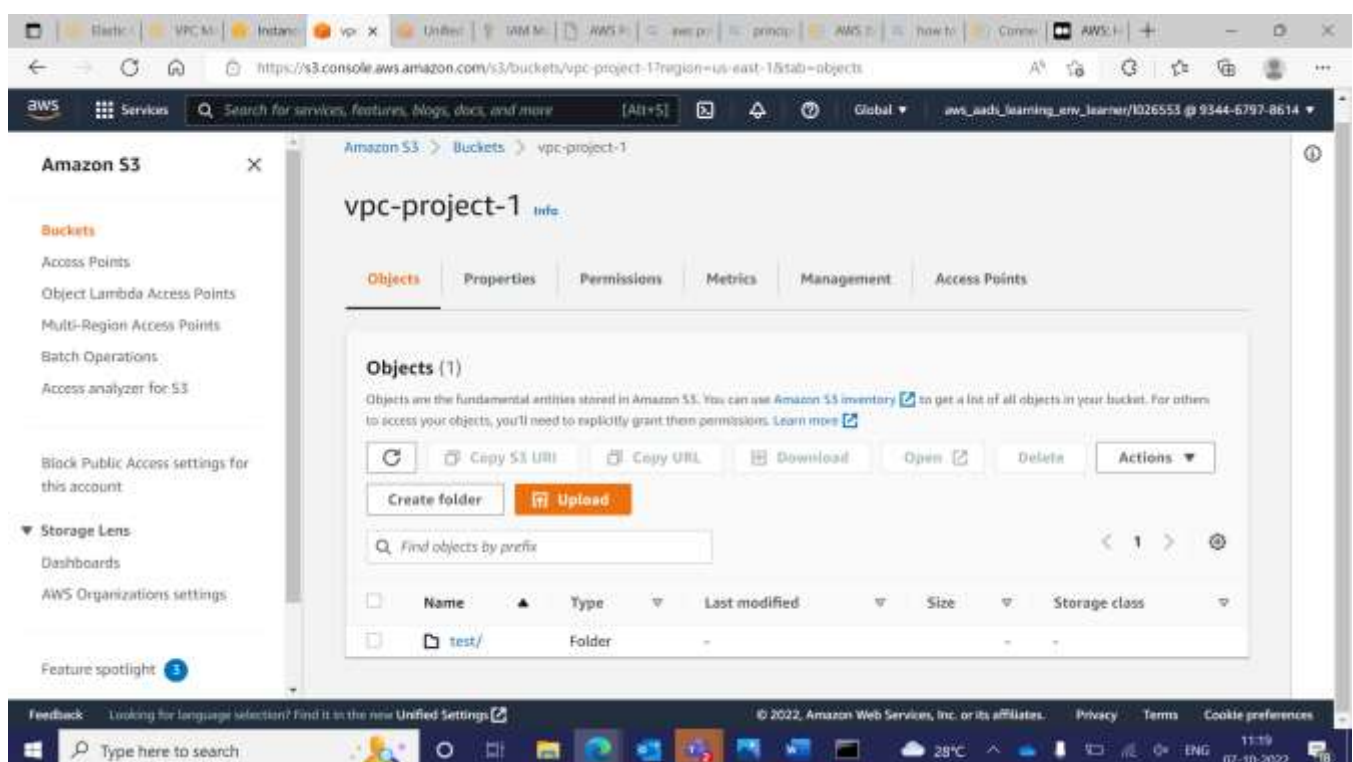


4. Mounting of s3 bucket over ec2- Linux Instance.

We can see mounting of s3 bucket, say “vpc-project-1” done successfully inside “amit” folder of ec2- Instance.

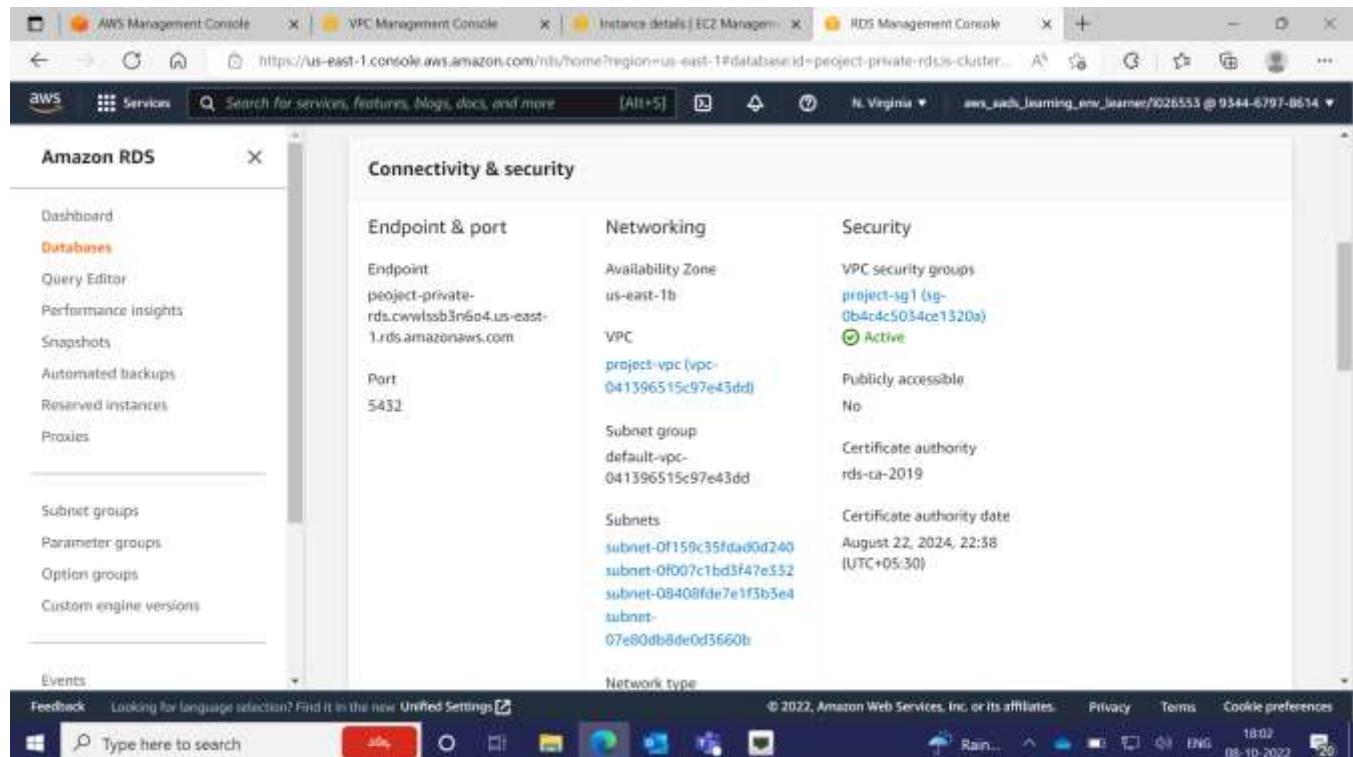
```
ec2-user@ip-10-0-0-40:~$ ssh -i key-pair1.pem ec2-user@10.0.0.40
Amazon Linux 2 AMI
https://aws.amazon.com/amazon-linux-2/
[ec2-user@ip-10-0-0-9 ~]$ cd /tmp
[ec2-user@ip-10-0-0-9 tmp]$ ls -l
total 4
-rw-rw-r-- 1 ec2-user ec2-user 1674 Oct  7 05:17 key-pair1.pem
drwxrwxr-x 3 root    root    17 Oct  7 05:01 systems-privates-SahdW4u97x48WebbDocJ255d897251-chromyd.service-wMTET
[ec2-user@ip-10-0-0-9 tmp]$ ssh -i key-pair1.pem ec2-user@10.0.0.40
Last login: Fri Oct  7 05:18:58 2022 from ip-10-0-0-9.ec2.internal
Amazon Linux 2 AMI
https://aws.amazon.com/amazon-linux-2/
[ec2-user@ip-10-0-0-40 ~]$ ls -l
total 4
drwxrwxr-x 8 ec2-user ec2-user 4096 Oct  7 05:18 s3fs-fuse
[ec2-user@ip-10-0-0-40 ~]$ which s3fs
/usr/bin/s3fs
[ec2-user@ip-10-0-0-40 ~]$ mkdir amit
[ec2-user@ip-10-0-0-40 ~]$ s3fs -o iam_role="project1-ec2-mount-role" vpc-project-1 amit
[ec2-user@ip-10-0-0-40 ~]$ df -h
Filesystem      Size  Used Avail Use% Mounted on
devtmpfs        476M   0  476M   0% /dev
tmpfs           483M   0  483M   0% /dev/shm
tmpfs           483M 500K  483M   1% /run
tmpfs           483M   0  483M   0% /sys/fs/cgroup
/dev/xvda1       8.0G  1.9G   6.2G  23% /
tmpfs           97M   0   97M   0% /run/user/0
tmpfs           97M   0   97M   0% /run/user/1000
s3fs            16E   0   16E   0% /home/ec2-user/amit
[ec2-user@ip-10-0-0-40 ~]$ cd amit
[ec2-user@ip-10-0-0-40 amit]$ mkdir test
[ec2-user@ip-10-0-0-40 amit]$
```

After mounting we are creating a folder in ec2-Instance, “test” and we see that folder has been created successfully inside the “vpc-project-1” bucket.

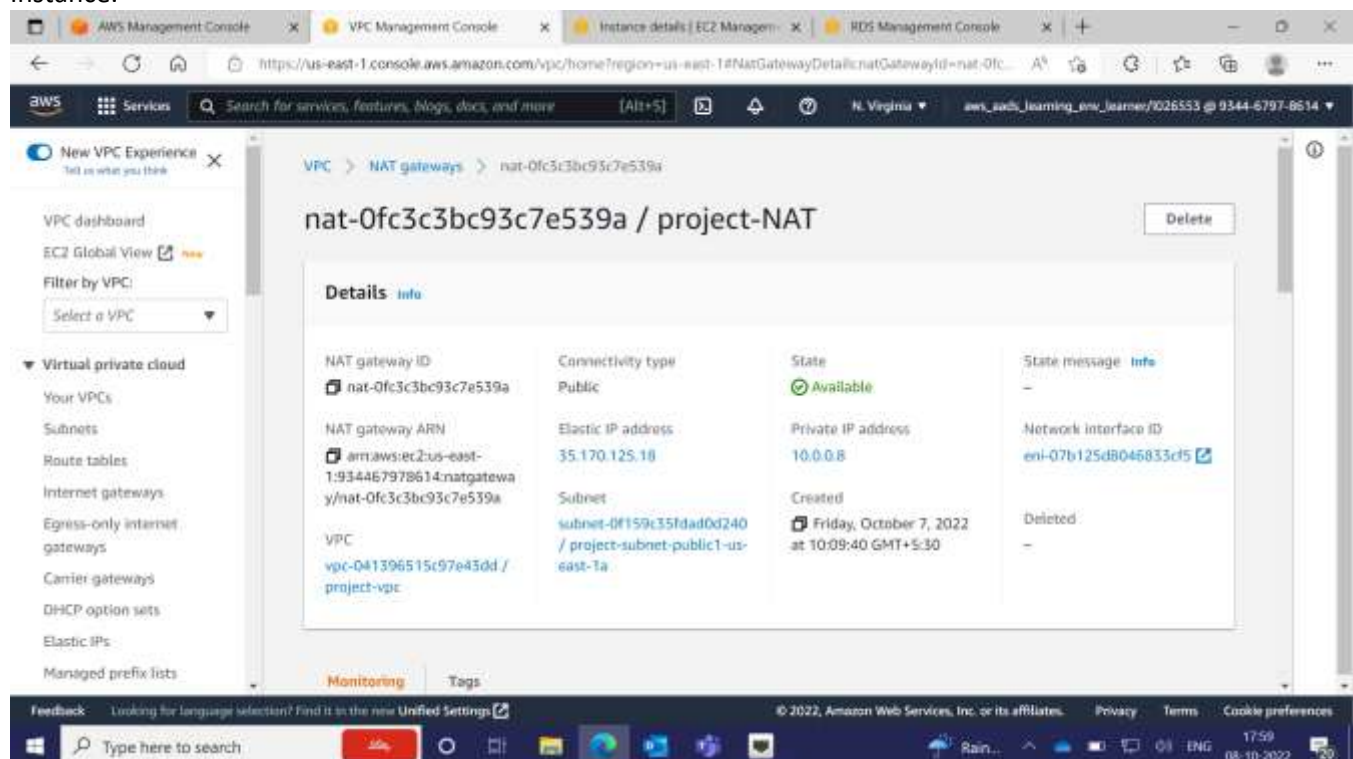


5. Private RDS Creation and connecting through private ec2- Windows Instance.

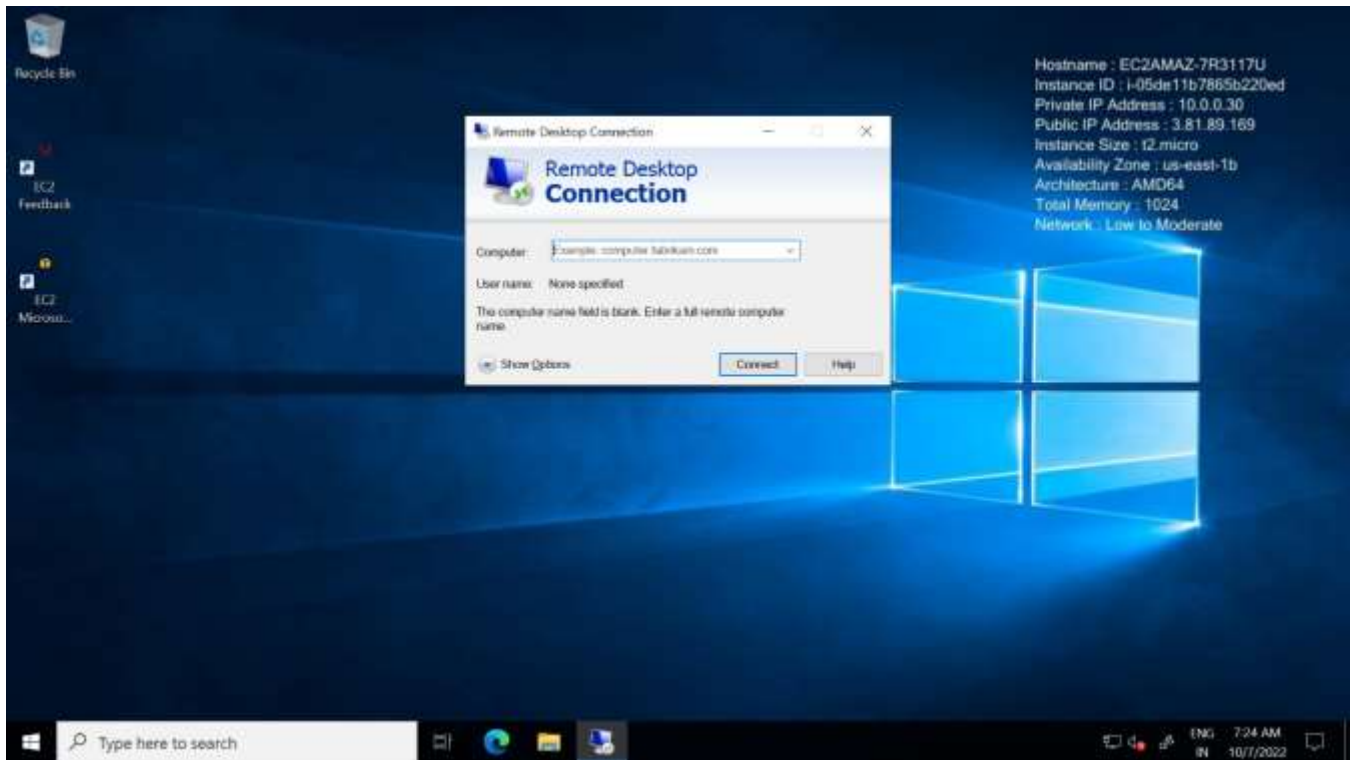
RDS Created with no publicly accessible.



NAT Gateway created, connect private windows with internet, show that RDS could connect with private ec2- Instance.



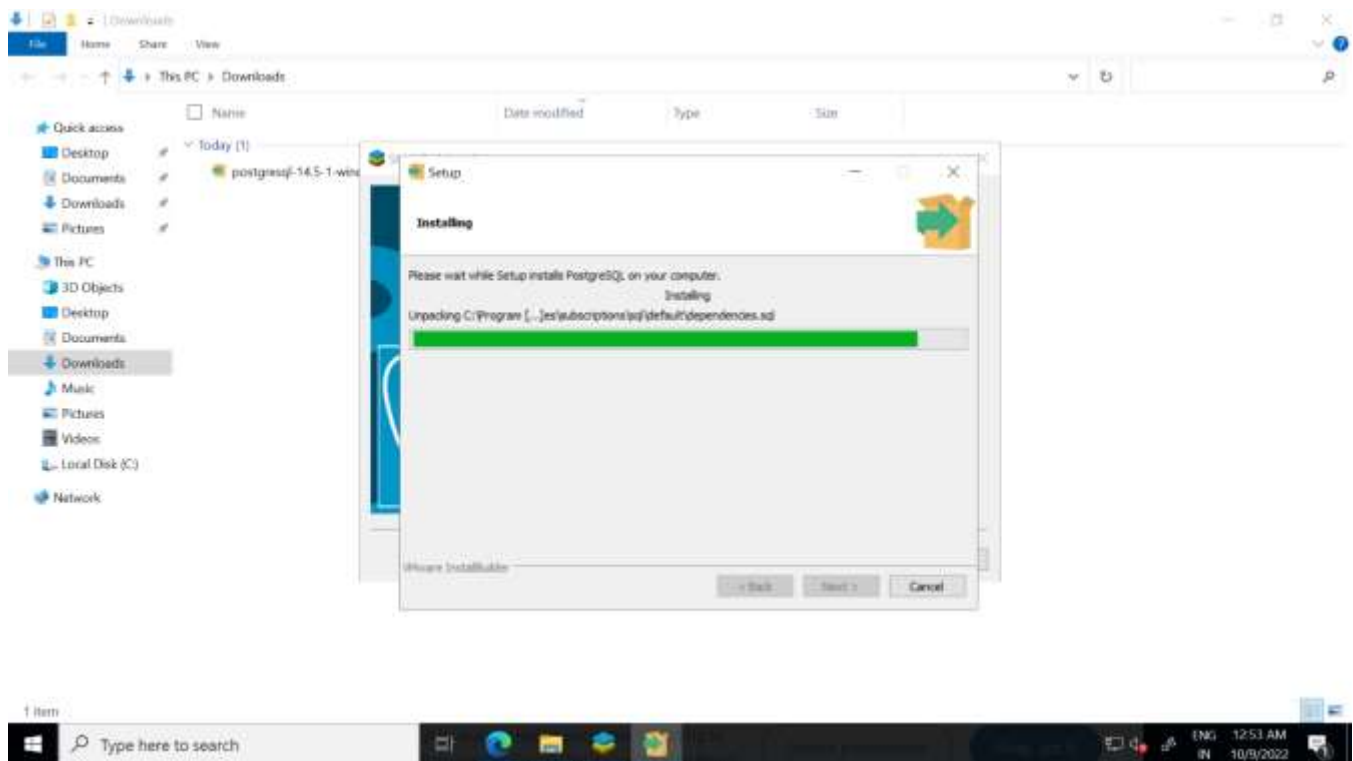
Public ec-2 Windows Instance connected successfully with Public IP 3.81.89.169 and Connecting Private ec-2 Instance.



Private ec2- Windows Instance connected successfully with Private IP 10.0.0.59.

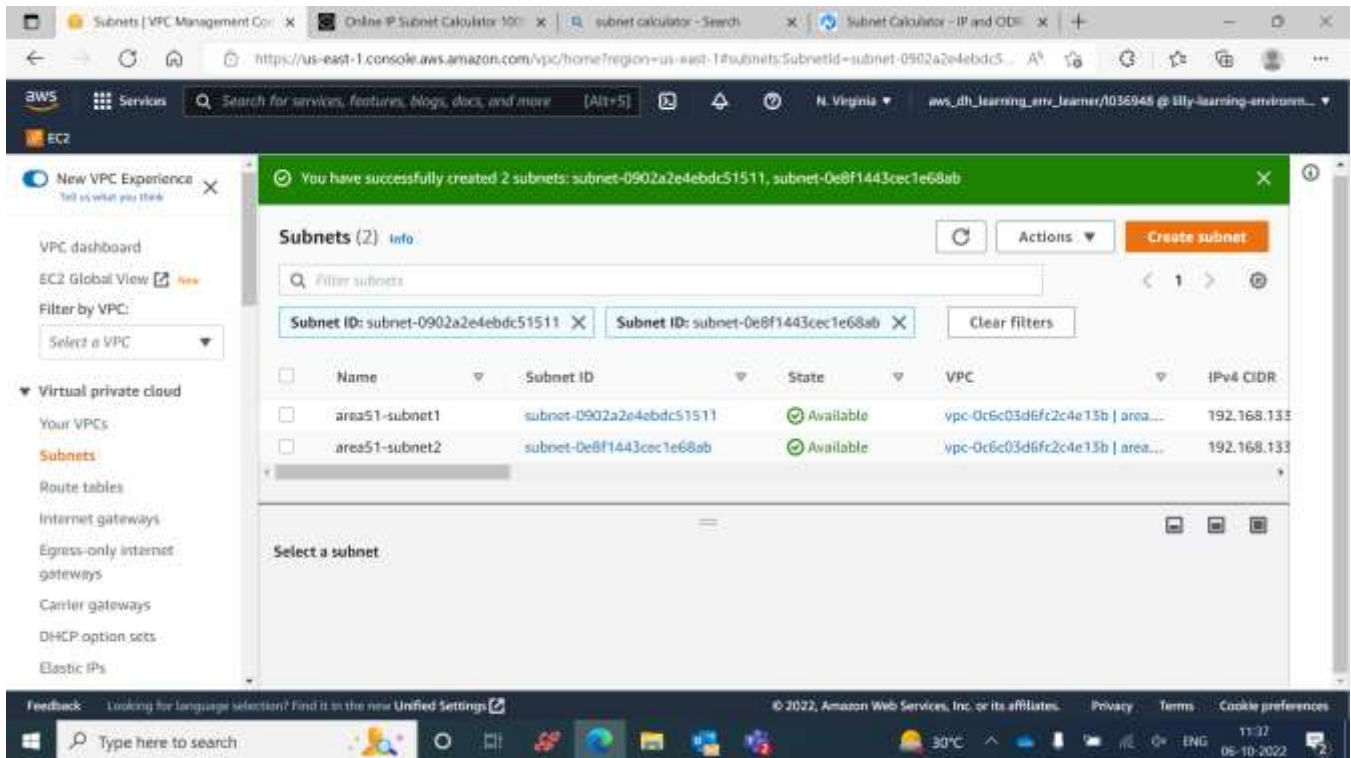


Installing PostgreSQL in private ec2-windows Instance, so that we connect RDS here.

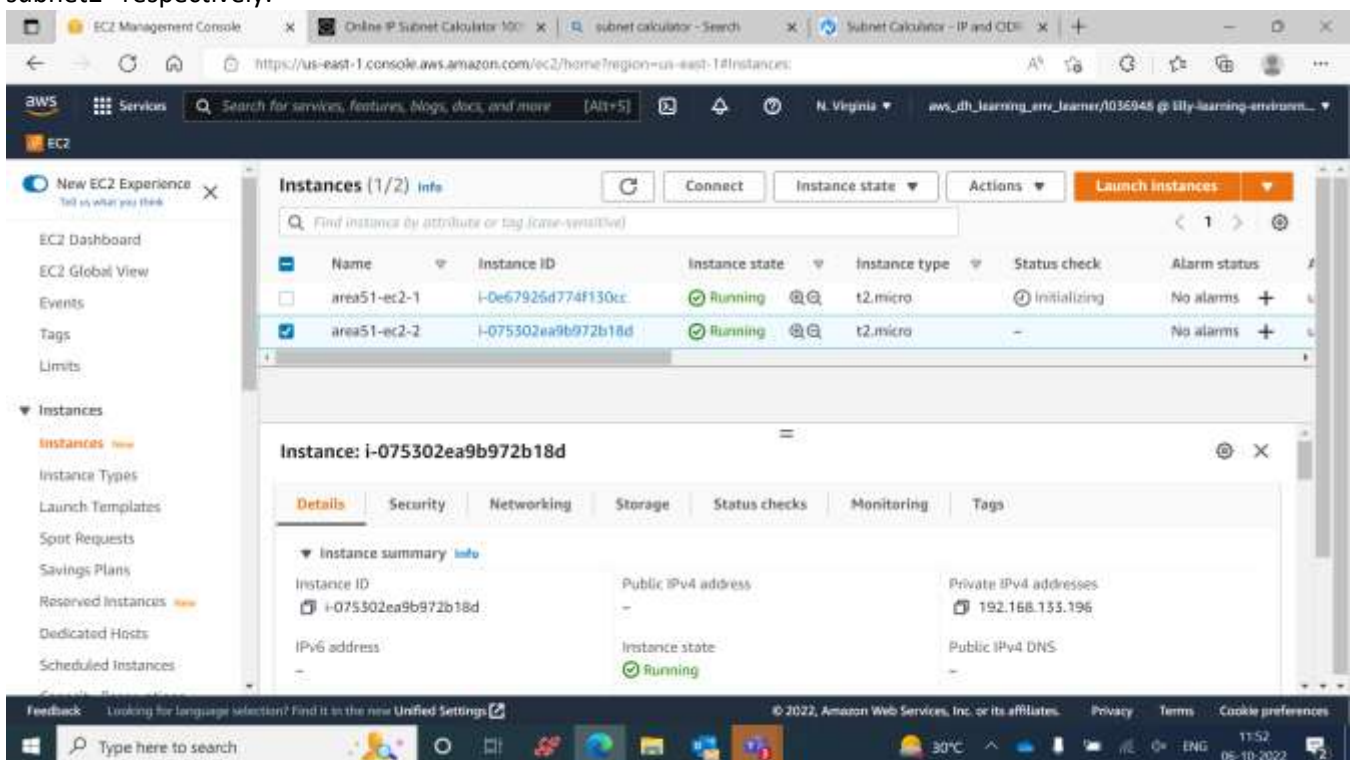


6. 2nd VPC created with only two Private Subnet, with purpose to connect with EFS.

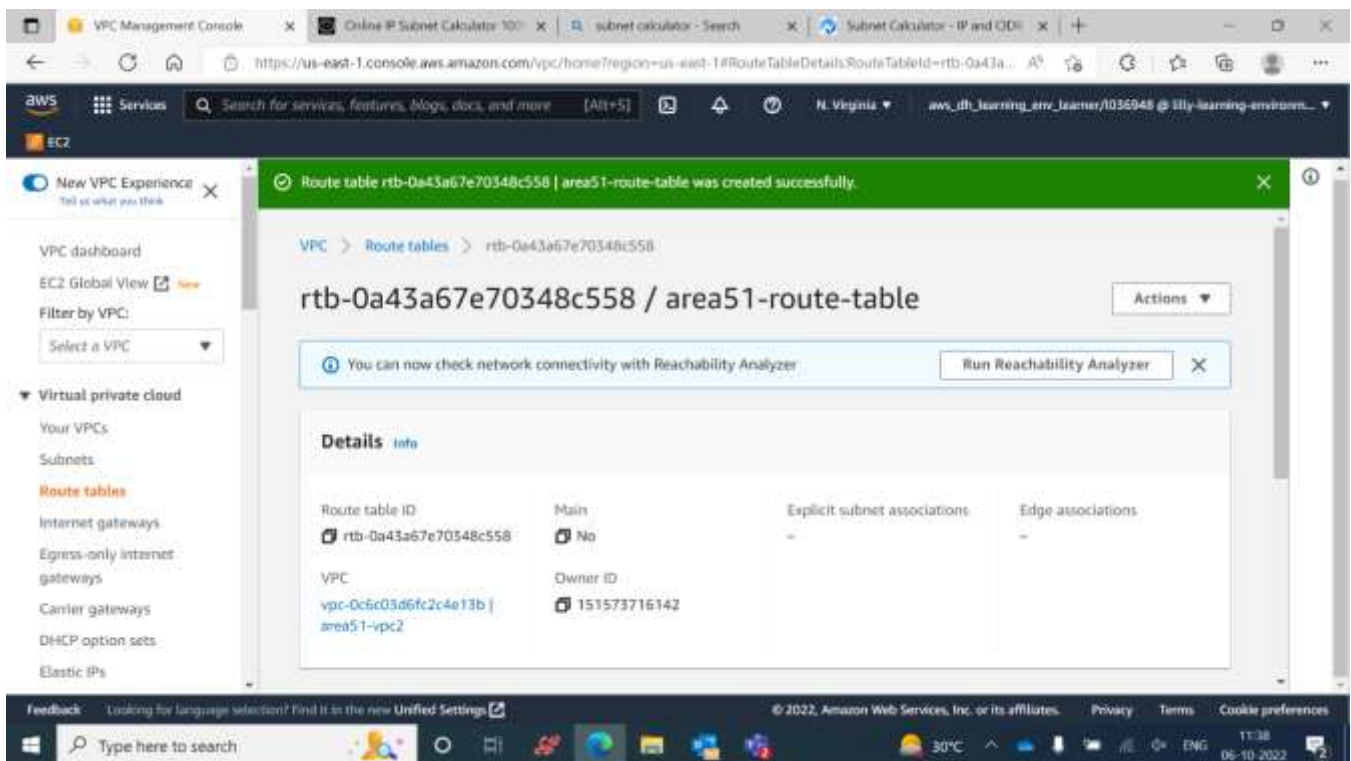
Two private subnets has been created, say “area51-subnet1” and “area51-subnet2” over the 2nd VPC “area51-vpc2”



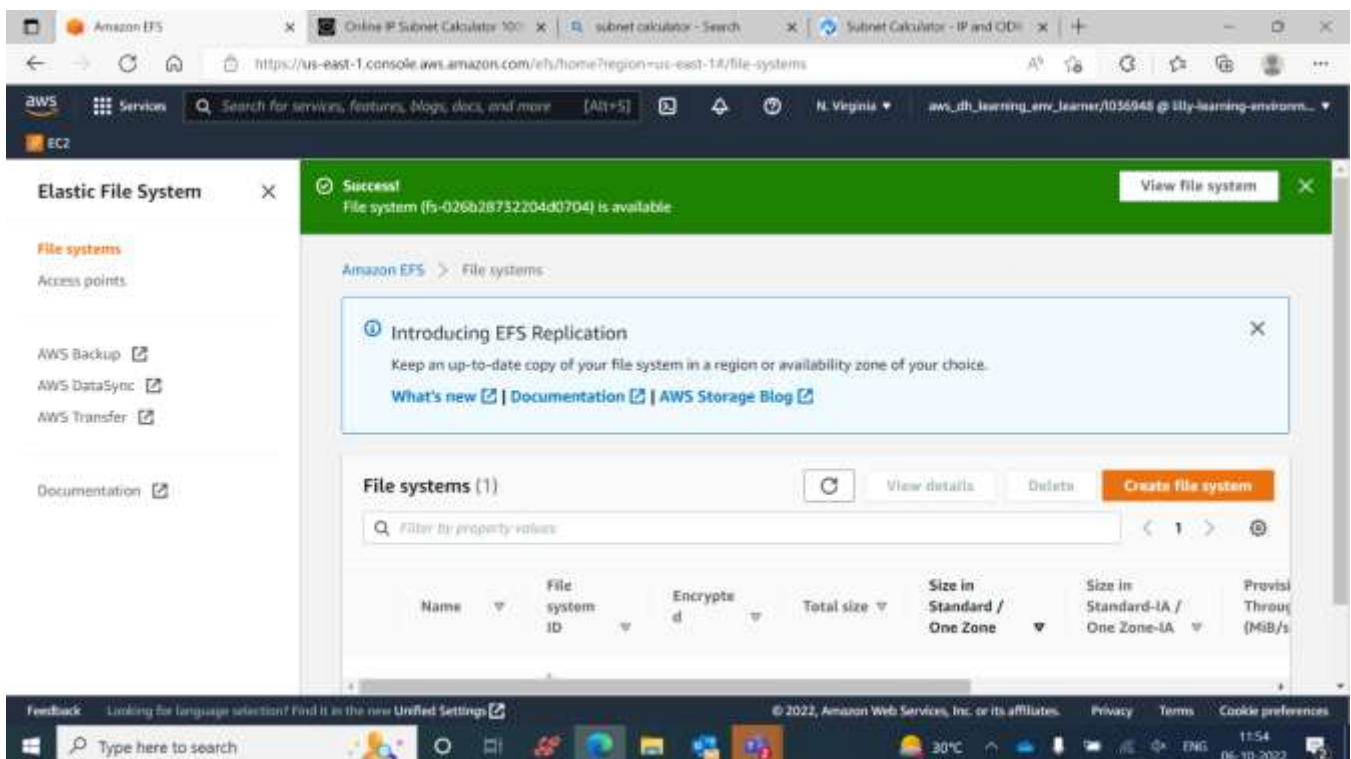
Instances “area51-ec-1” and “area51-ec-2” has been created over the subnets “area51-subnet1” and “area51-subnet2” respectively.



Route Table has been created to connect subnets “area51-subnet1” and “area51-subnet2” over the VPC “area51-vpc2”.

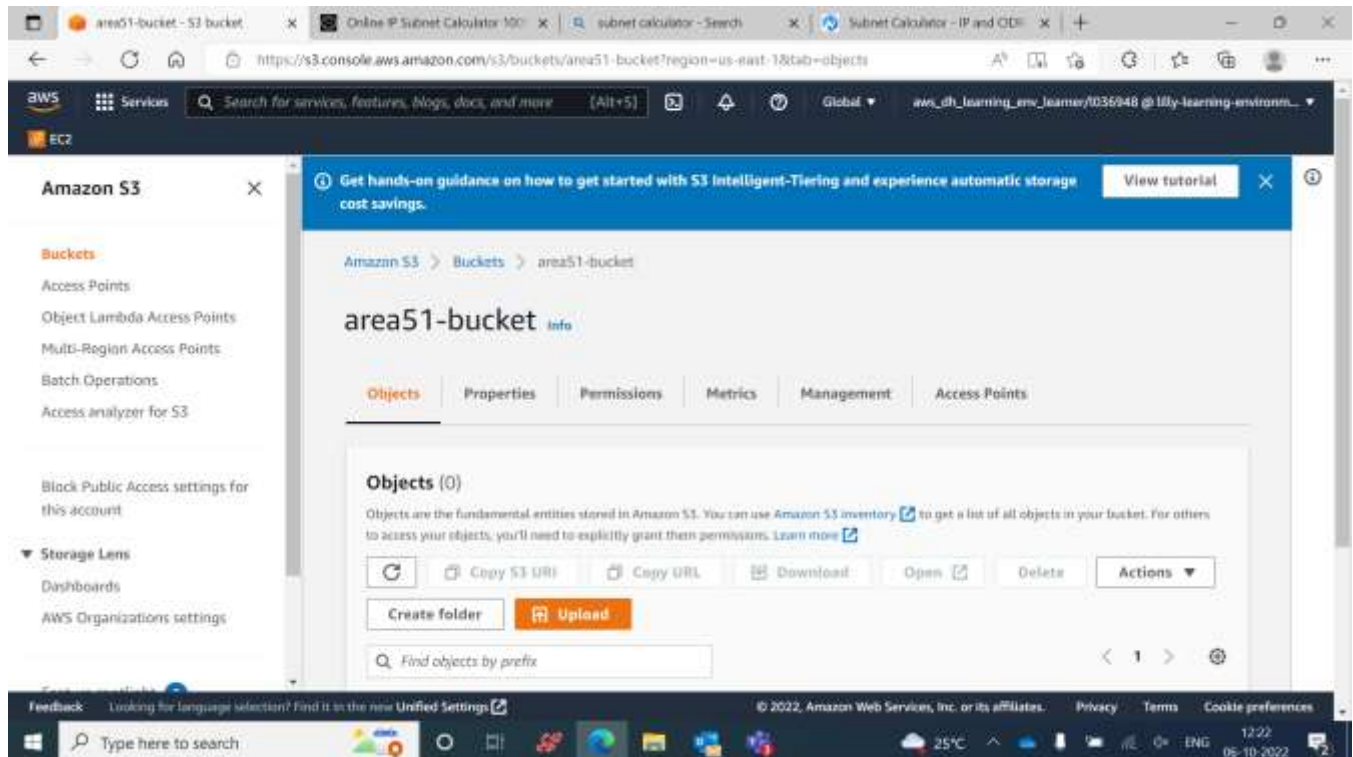


EFS has been attached successfully to with the Instance.

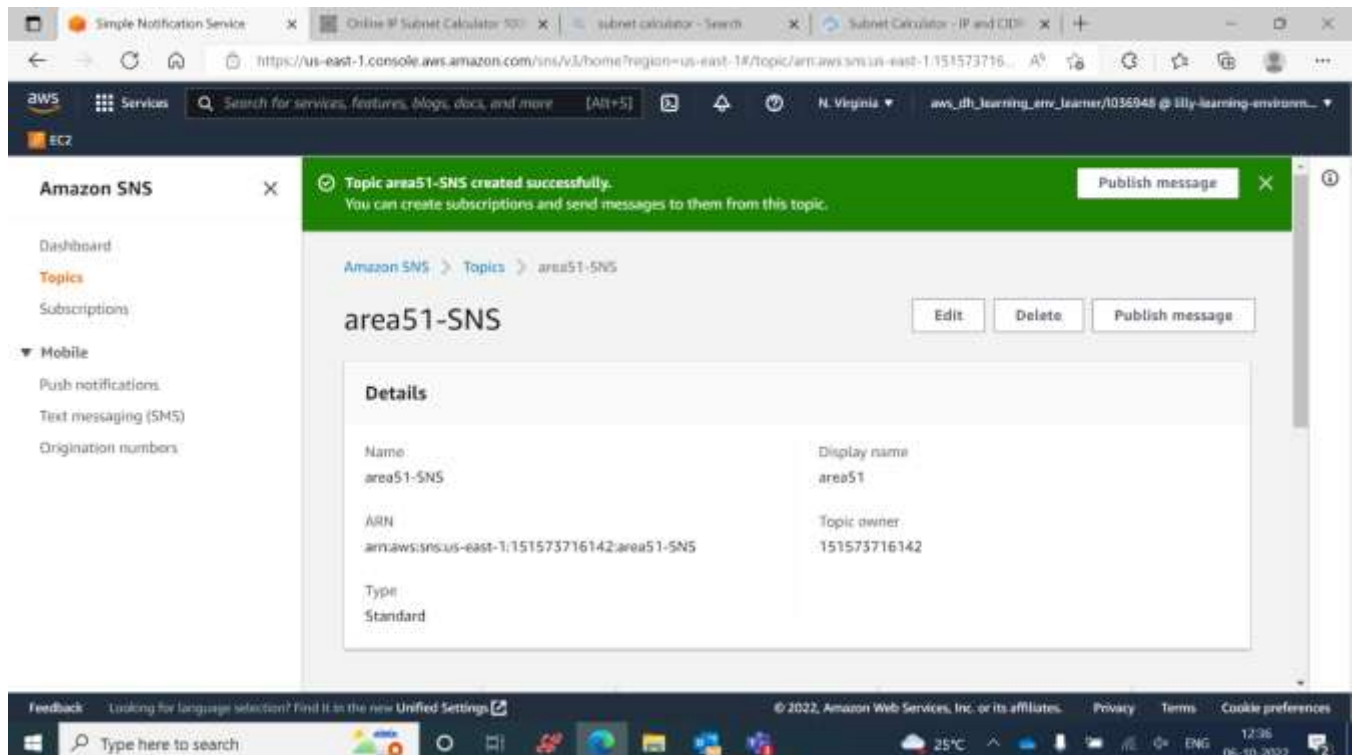


7. Bucket creation to attach Event Notification SNS .

Bucket has been created successfully.

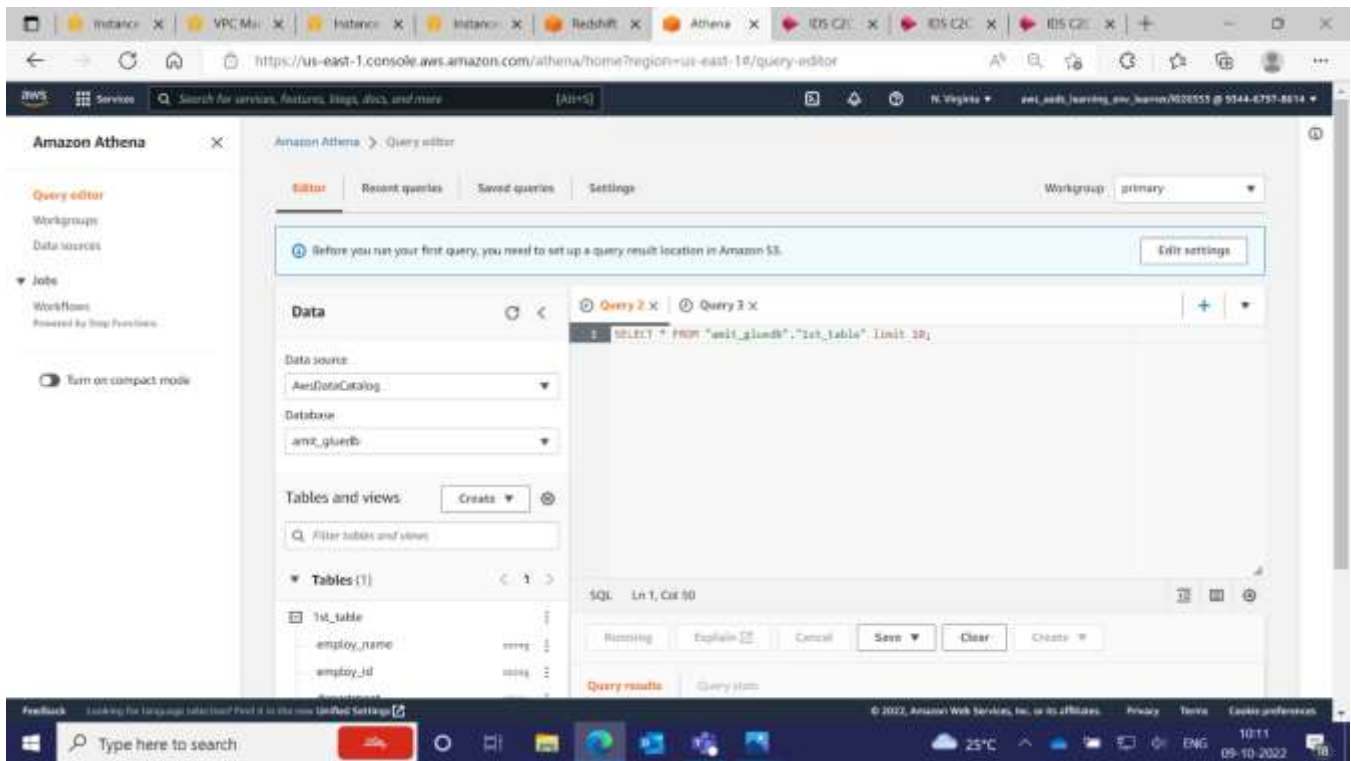


SNS has been created successfully.



8. Athena

Athena connect successfully with Database.



9. Redshift

Redshift also connected successfully.

