Assignment 2

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Project1: Working with IAM roles with S3 and bootstraping with EC2

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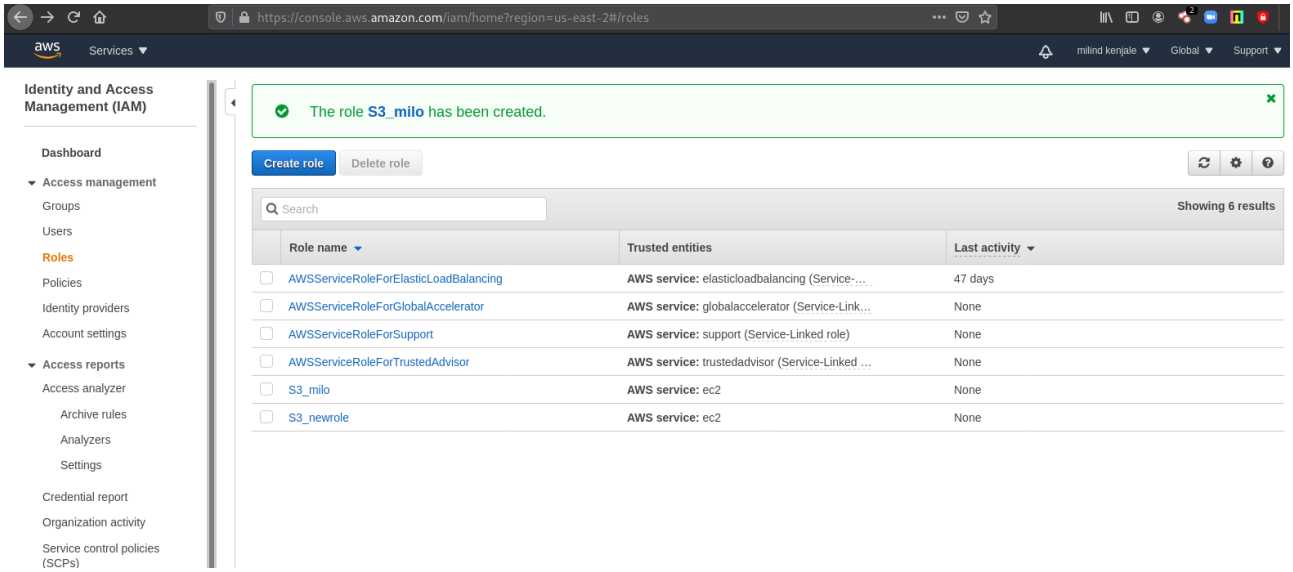
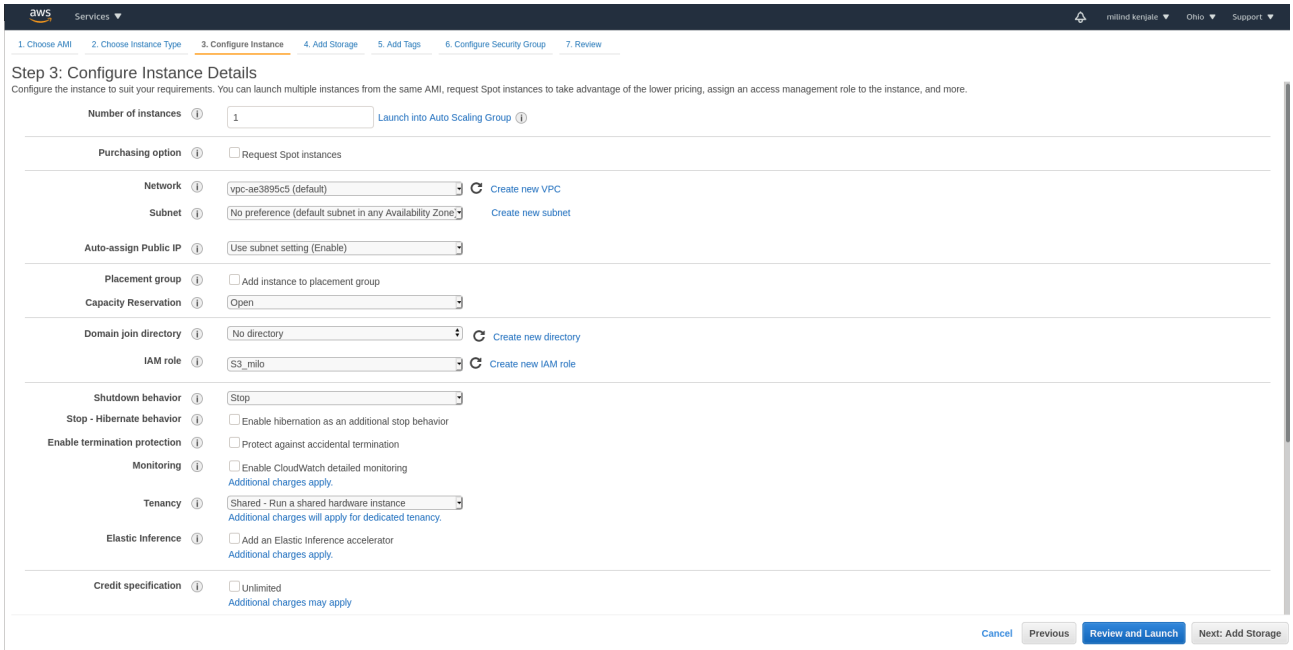
1. Created IAM S3 role

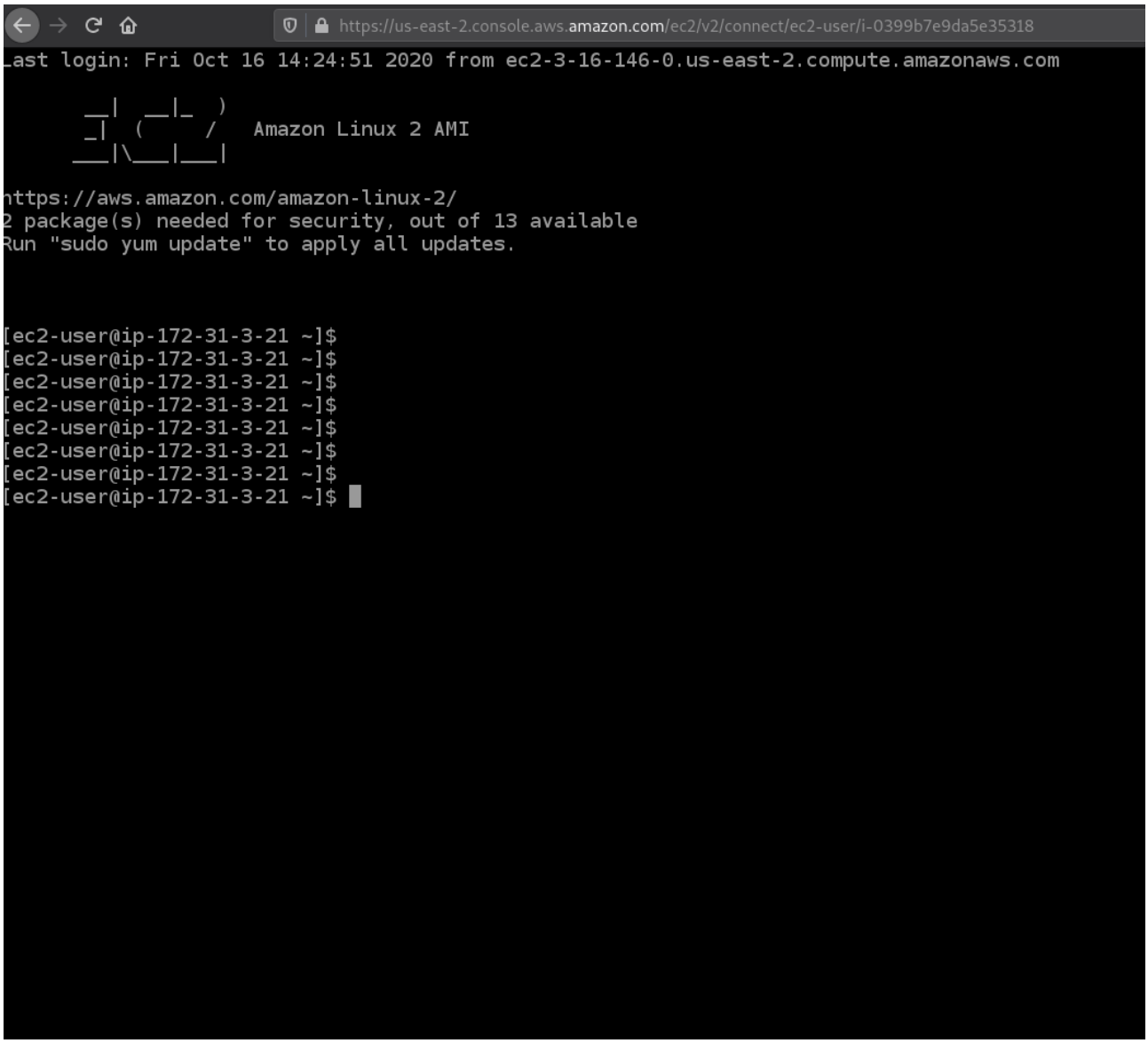


2. Instance creation

Selected required IAM role



Console of the EC2 instance



i-0399b7e9da5e35318 (linuxinstances3)

Public IPs: 3.14.142.56 Private IPs: 172.31.3.21

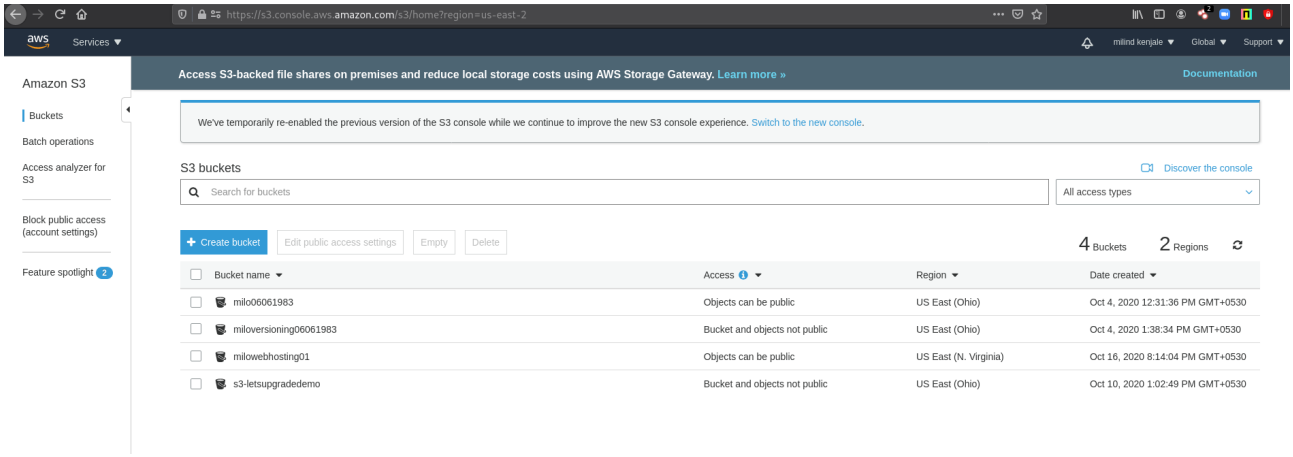
Created S3 bucket with name milowebhosting01

```
[root@ip-172-31-3-21 ec2-user]# aws s3 mb s3://letsupgrade02
make_bucket failed: s3://letsupgrade02 An error occurred (BucketAlreadyExists) when calling the CreateBucket operation: The requested bucket name is not available. The bucke
t namespace is shared by all users of the system. Please select a different name and try again.
[root@ip-172-31-3-21 ec2-user]#
[root@ip-172-31-3-21 ec2-user]#
[root@ip-172-31-3-21 ec2-user]# aws s3 mb s3://milowebhosting01
make_bucket: milowebhosting01
[root@ip-172-31-3-21 ec2-user]#
[root@ip-172-31-3-21 ec2-user]# aws s3 ls
2020-10-04 07:01:36 milo06061983
2020-10-04 08:08:34 miloversioning06061983
2020-10-16 14:44:04 milowebhosting01
2020-10-10 07:32:49 s3-letsupgradedemo
[root@ip-172-31-3-21 ec2-user]#
```

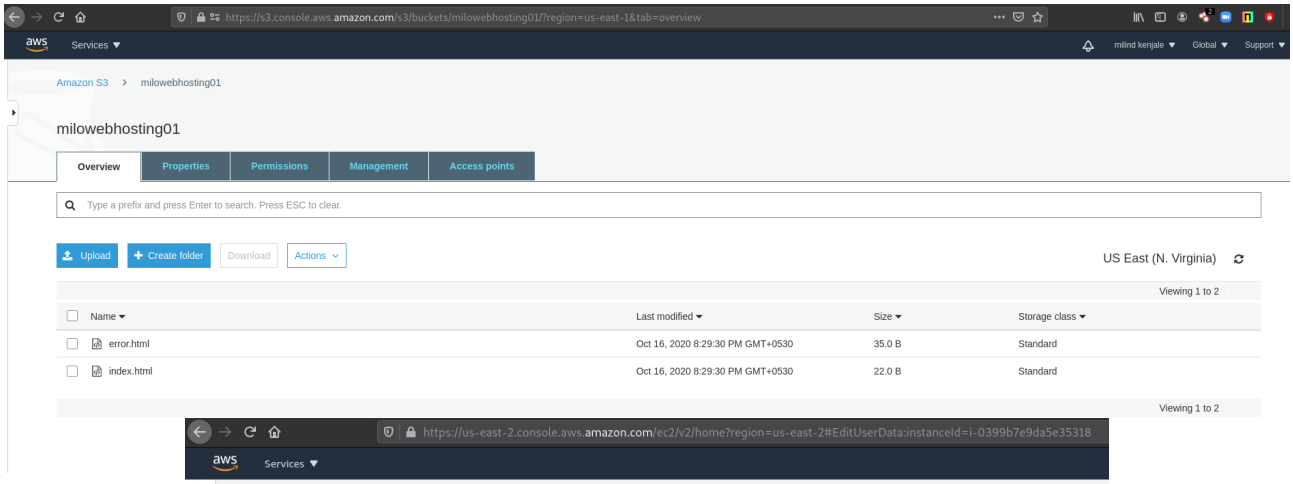
i-0399b7e9da5e35318 (linuxinstances3)

Public IPs: 3.14.142.56 Private IPs: 172.31.3.21

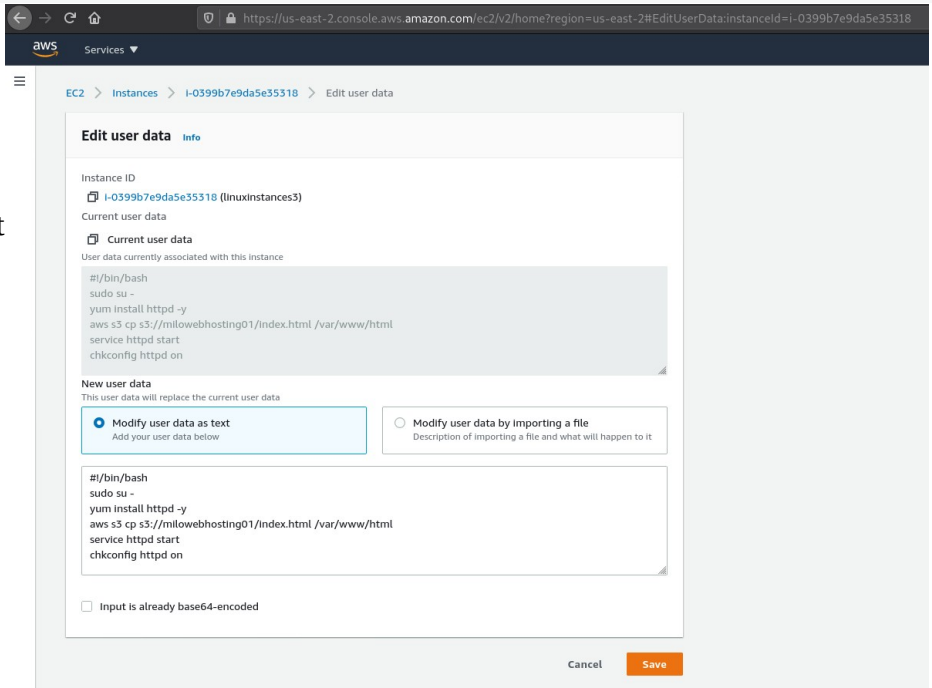
Verified whether S3 has been created through S3 web



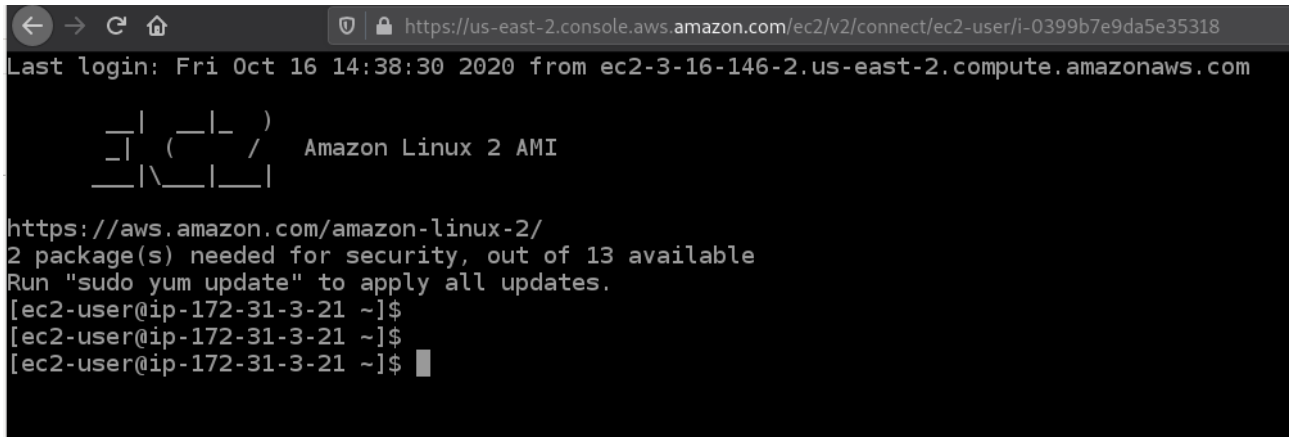
Uploaded index.html and error.html in S3 bucket

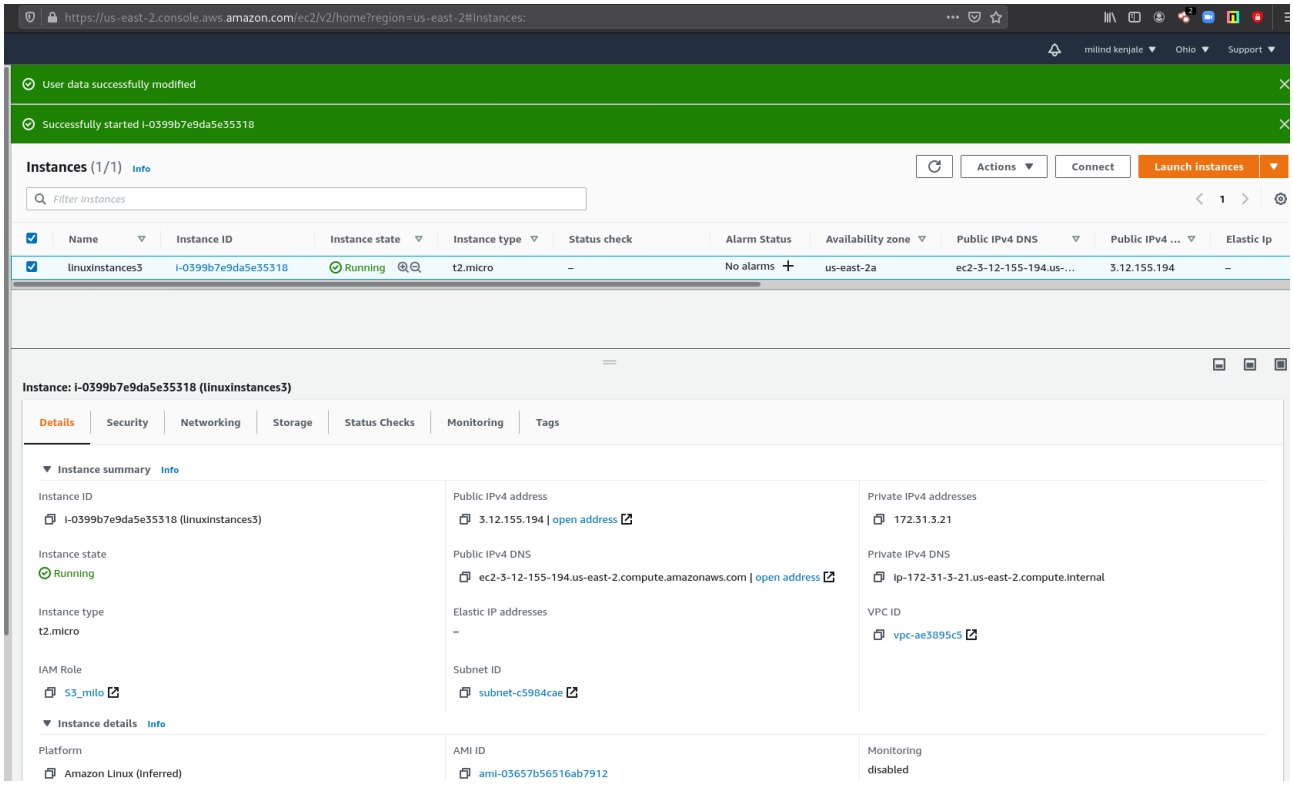


Adding bootstrap script in EC2 instance “Edit user data”

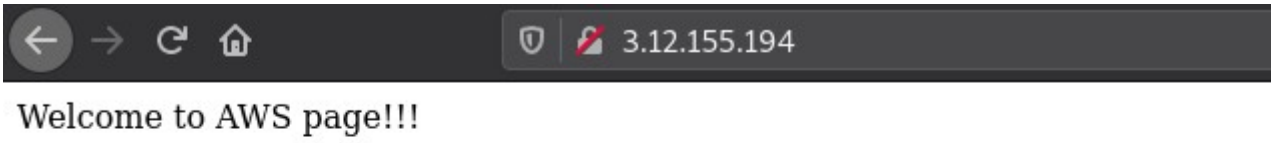


Restart and connet the instance





Access of server through public ip of server



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Project 2: Creating an EC2 instance in custom VPC

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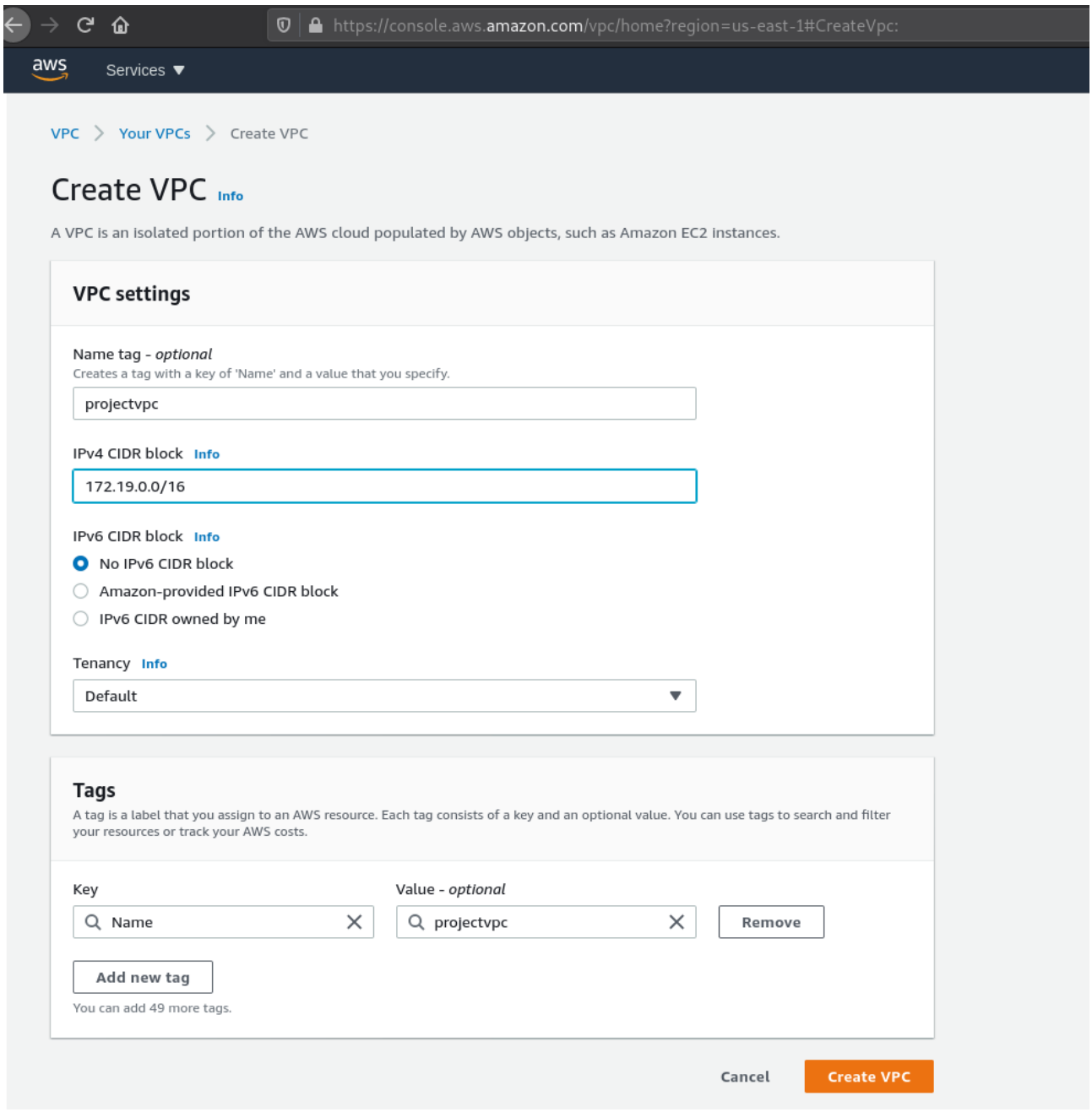
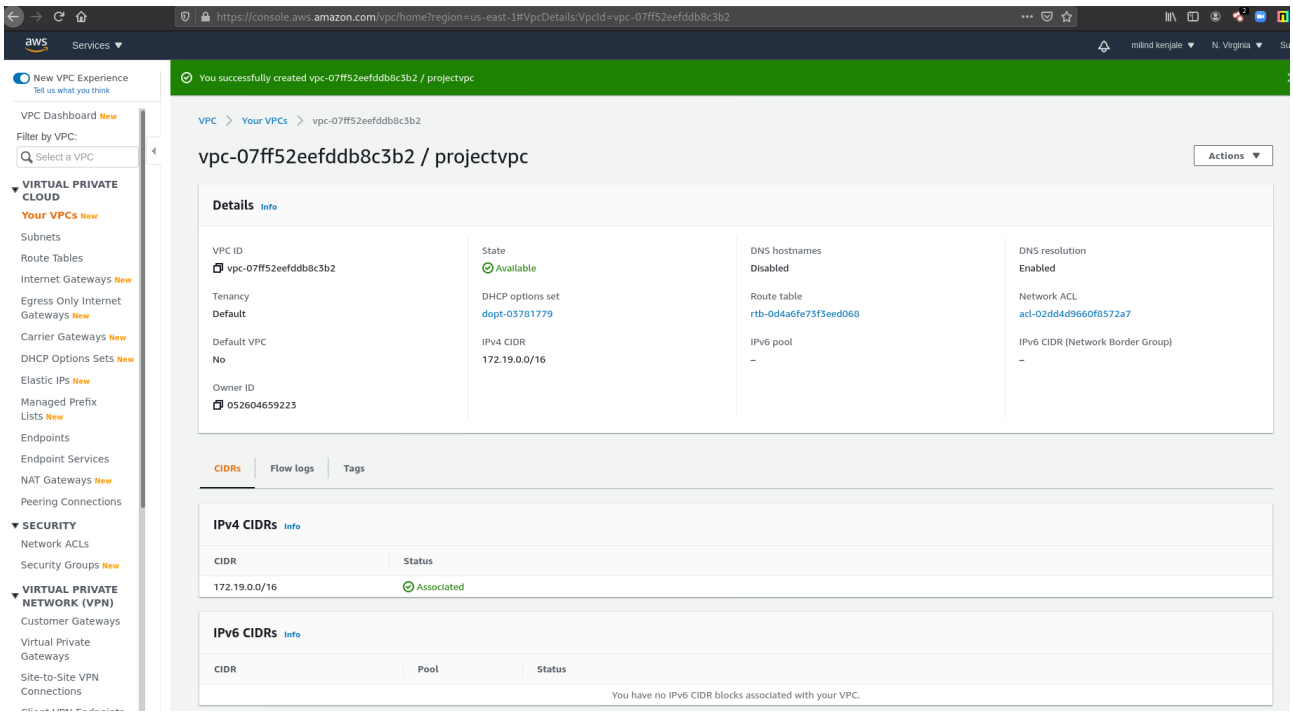
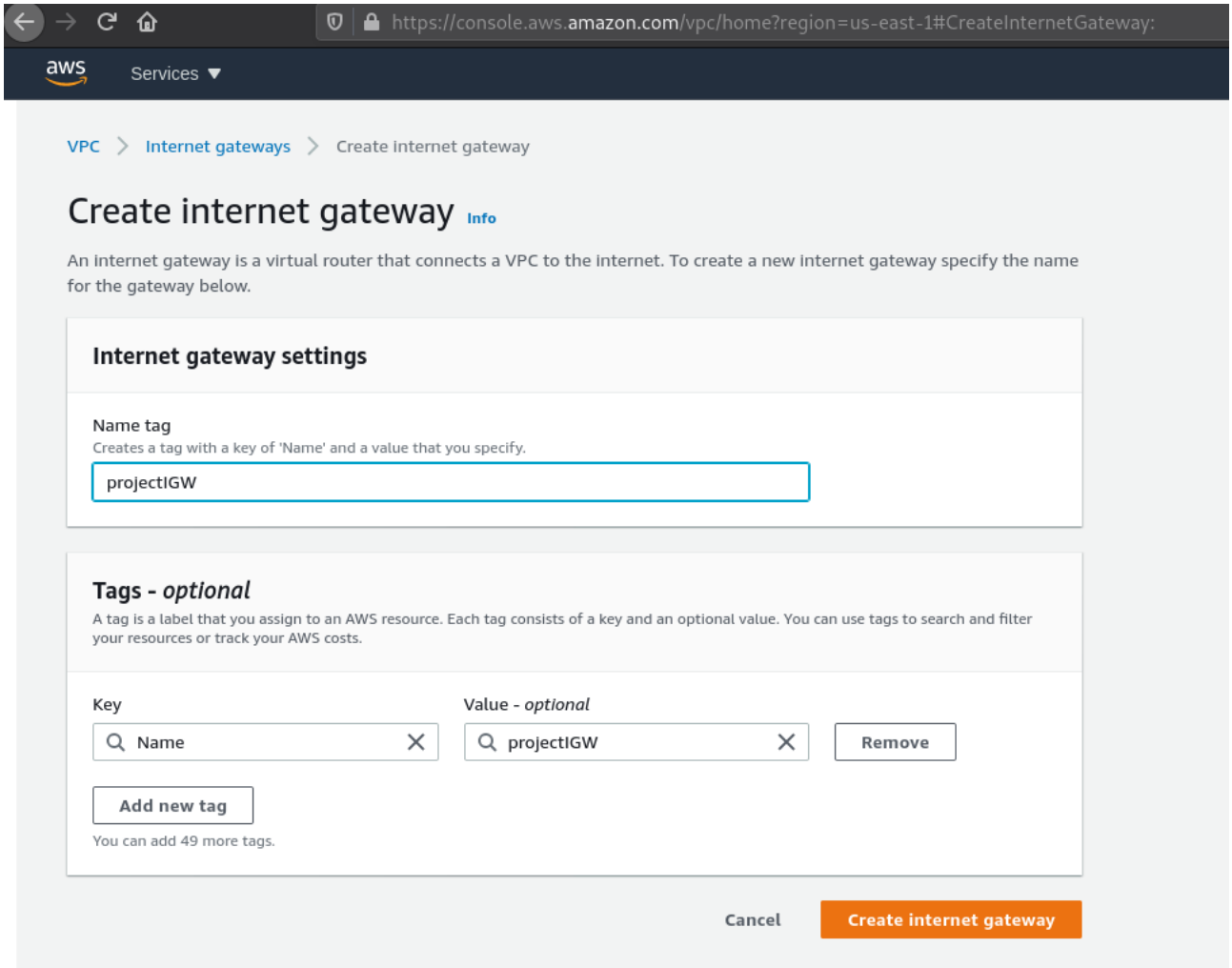
Task1: Create a VPC

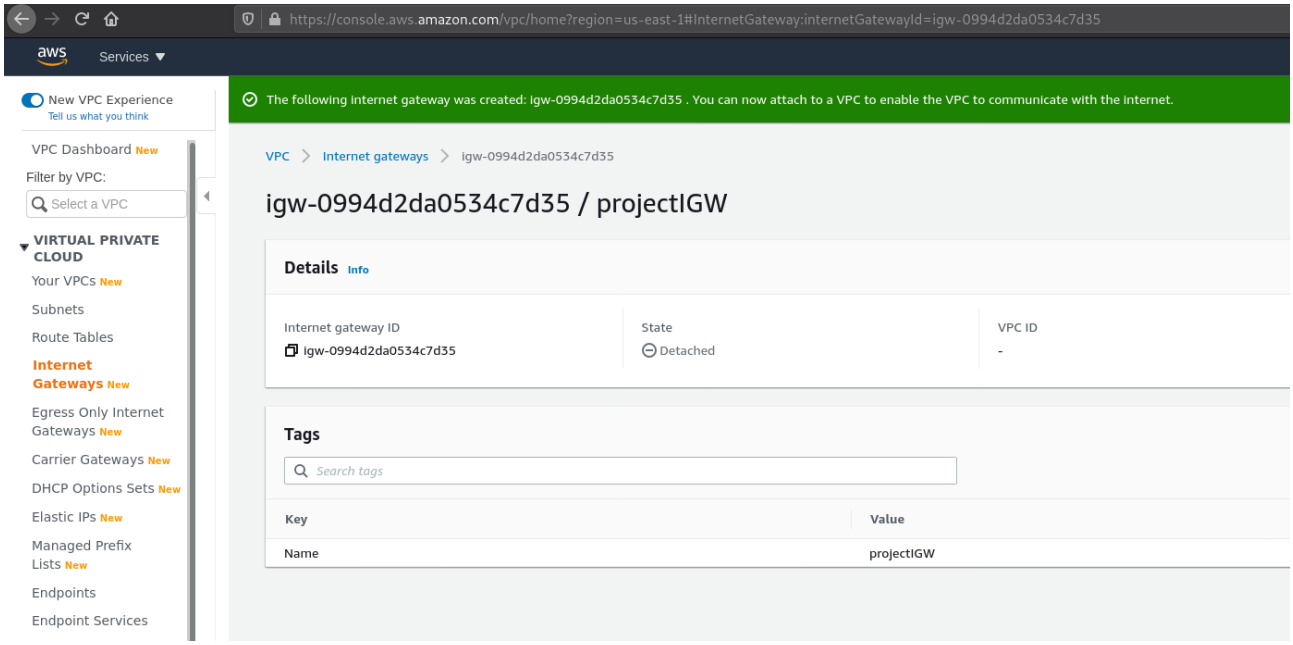
SS1: VPC created


https://console.aws.amazon.com/vpc/home?region=us-east-1#CreateVpc:
aws
Services
VPC > Your VPCs > Create VPC
Create VPC Info
A VPC is an isolated portion of the AWS cloud populated by AWS objects, such as Amazon EC2 instances.
VPC settings
Name tag - optional
Creates a tag with a key of 'Name' and a value that you specify.
projectvpc
IPv4 CIDR block Info
172.19.0.0/16
IPv6 CIDR block Info
No IPv6 CIDR block
Amazon-provided IPv6 CIDR block
IPv6 CIDR owned by me
Tenancy Info
Default
Tags
A tag is a label that you assign to an AWS resource. Each tag consists of a key and an optional value. You can use tags to search and filter your resources or track your AWS costs.
Key
Value - optional
Name
projectvpc
Remove
Add new tag
You can add 49 more tags.
Cancel
Create VPC

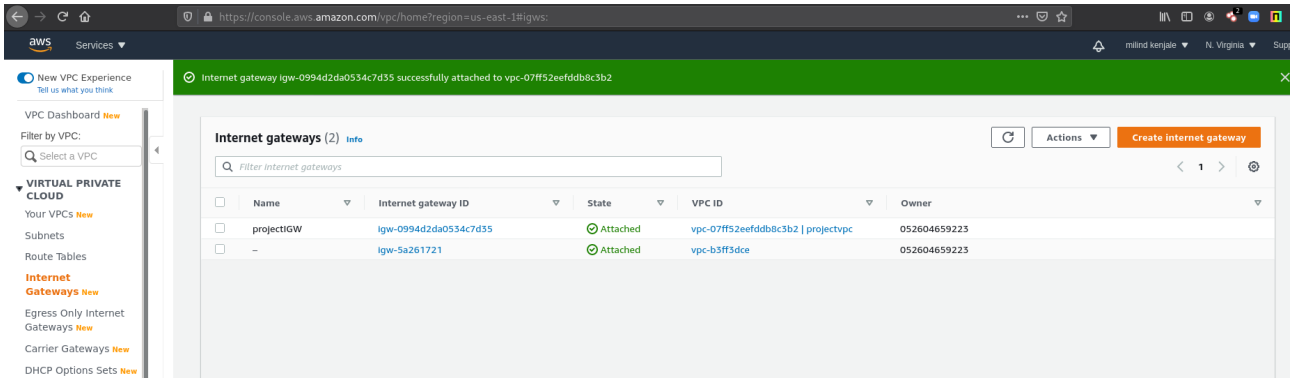


Task2: Create a Internet Gateway

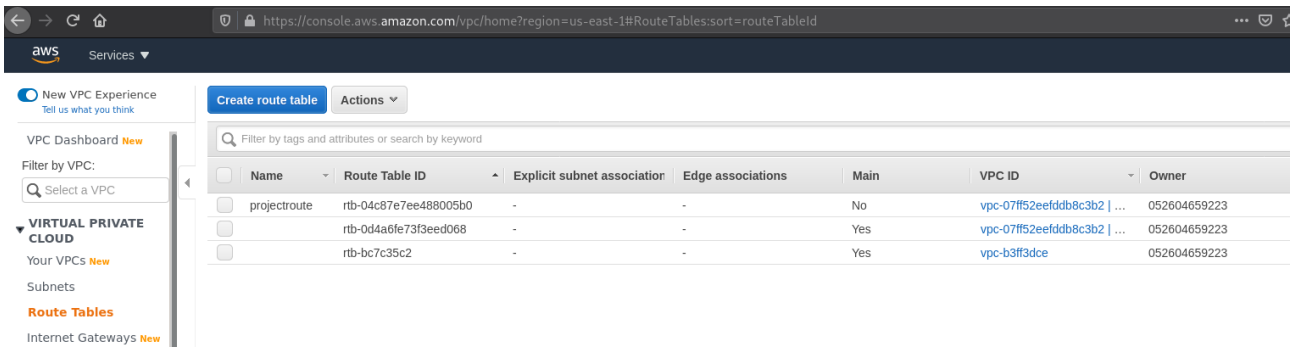




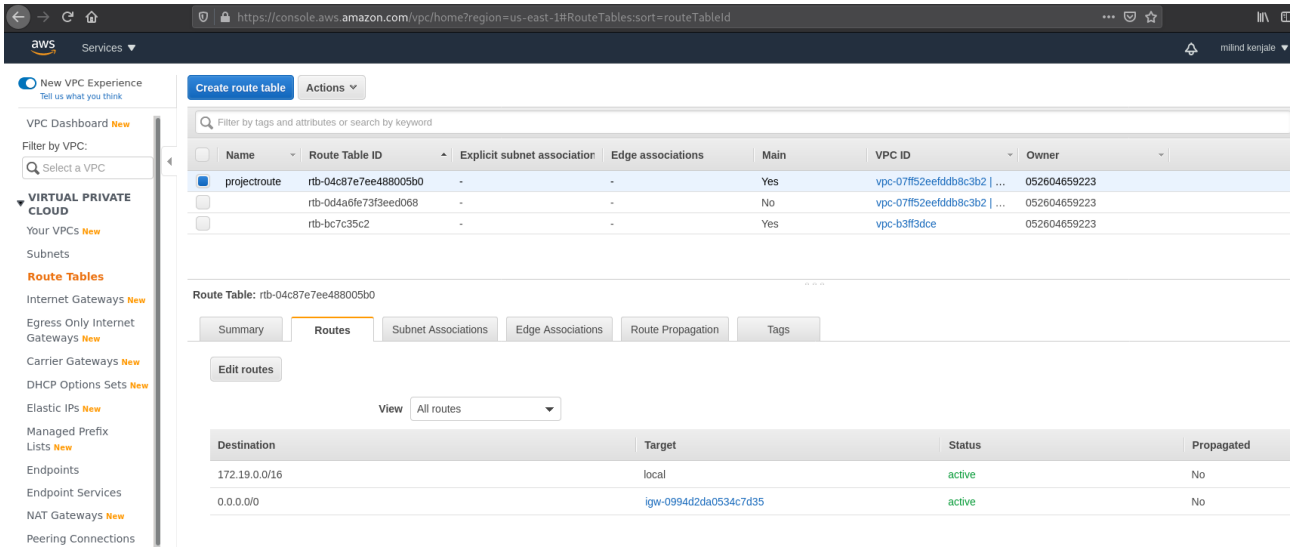
SS2: igw with vpc associated



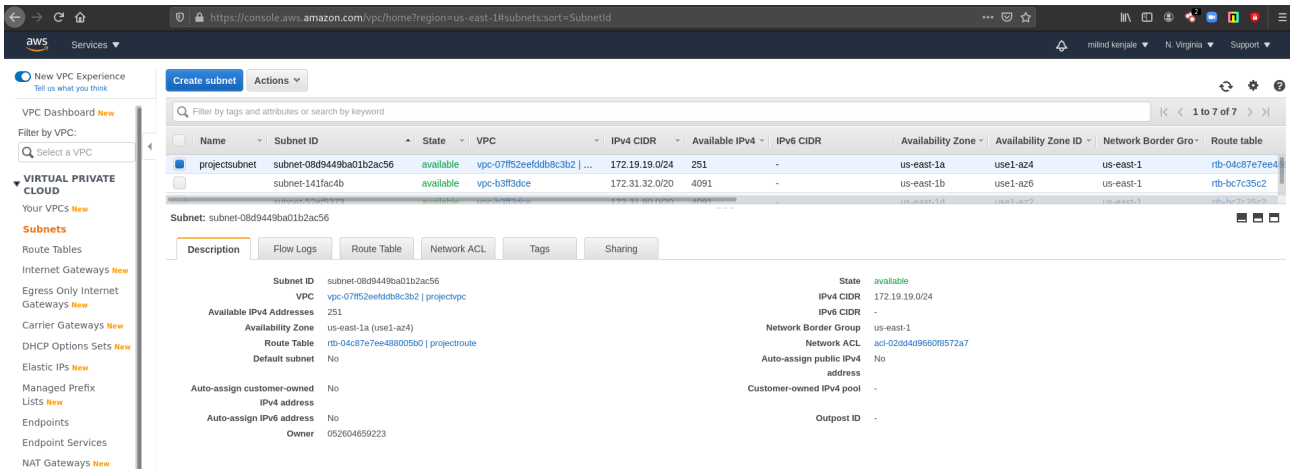
Task3: Create route table



SS3: Route table with routes

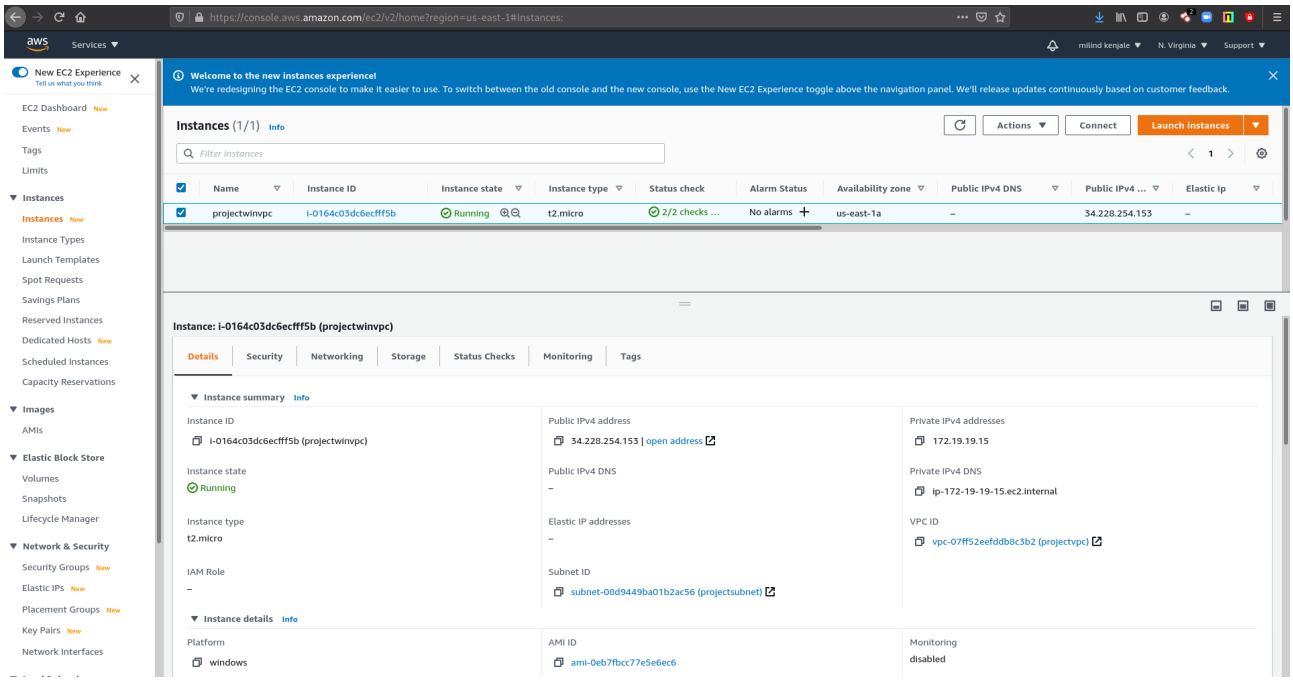


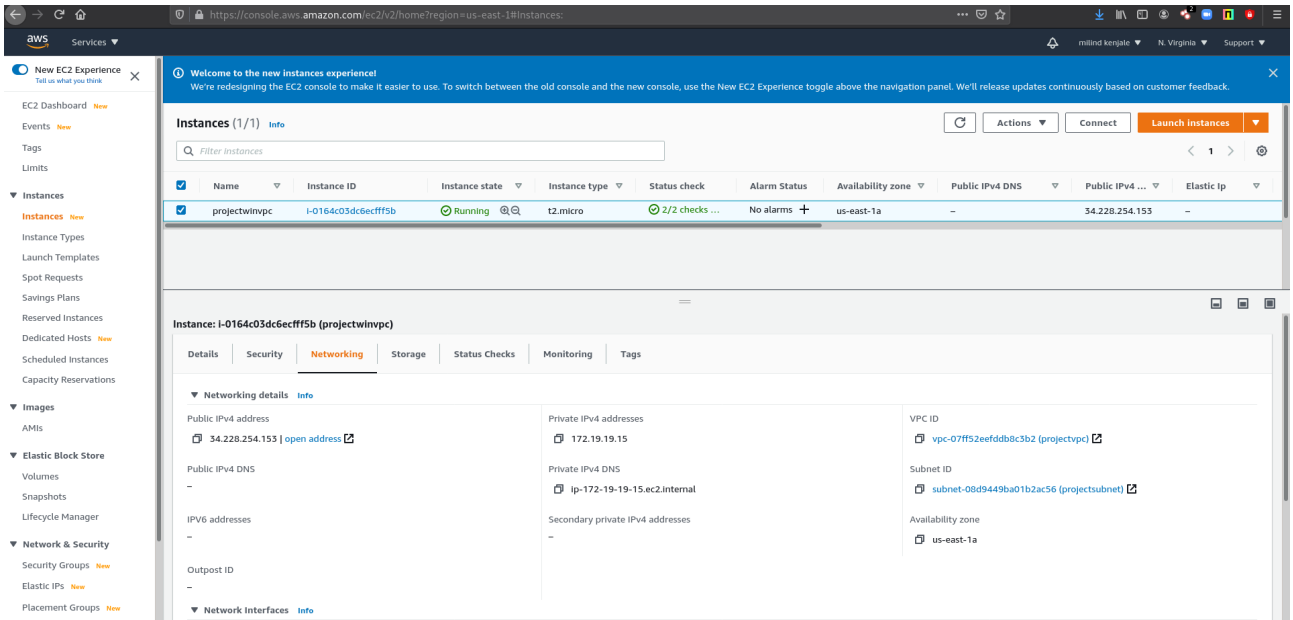
Task4: Create a subnet
SS4: Subnet screen



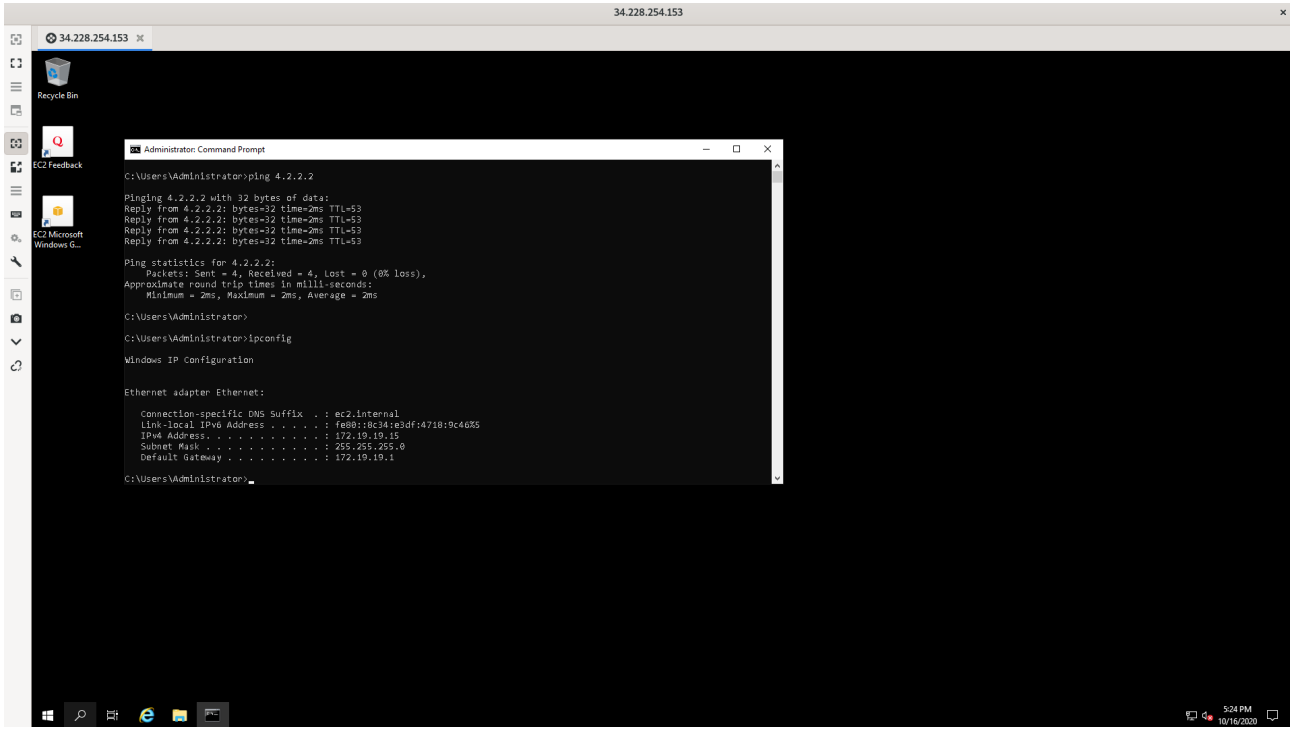
Task5: Create a EC2 in custom vpc

SS5: EC@ dashboard





Task 6: check ipconfig in VM command prompt
SS6: cmd promt:ipconfig


34.228.254.153
34.228.254.153
Recycle Bin
EC2 Feedback
EC2 Microsoft Windows G...
Administrator: Command Prompt
C:\Users\Administrator>ping 4.2.2.2
Pinging 4.2.2.2 with 32 bytes of data:
Reply from 4.2.2.2: bytes=32 time=2ms TTL=53
Reply from 4.2.2.2: bytes=32 time=2ms TTL=53
Reply from 4.2.2.2: bytes=32 time=2ms TTL=53
Reply from 4.2.2.2: bytes=32 time=2ms TTL=53
Ping statistics for 4.2.2.2:
Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
Approximate round trip times in milli-seconds:
Minimum = 2ms, Maximum = 2ms, Average = 2ms
C:\Users\Administrator>
C:\Users\Administrator>ipconfig
Windows IP Configuration
Ethernet adapter Ethernet:
Connection-specific DNS Suffix . : ec2.internal
Link-local IPv6 Address . . . . . : fe80::8c34:e3df:4718:9c46%5
IPv4 Address. . . . . : 172.19.19.15
Subnet Mask . . . . . : 255.255.255.0
Default Gateway . . . . . : 172.19.19.1
C:\Users\Administrator>
5:24 PM
10/16/2020

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