Project 2

In this project, you will be working on a hospital project to send reports online and develop a platform so the patients can access the reports via mobile and push notifications. You will publish the report to an Amazon SNS keeping it secure and private. Your message will be hosted on an EC2 instance within your Amazon VPC. By publishing the messages privately, you can improve the message delivery and receipt through Amazon SNS.
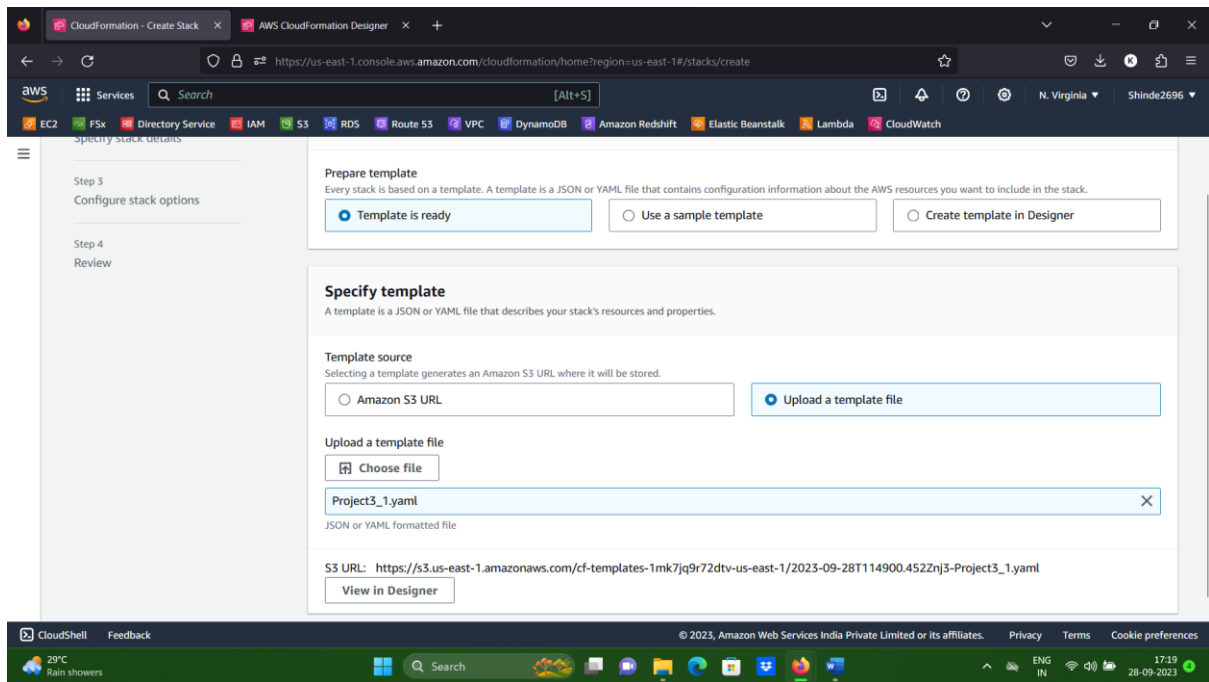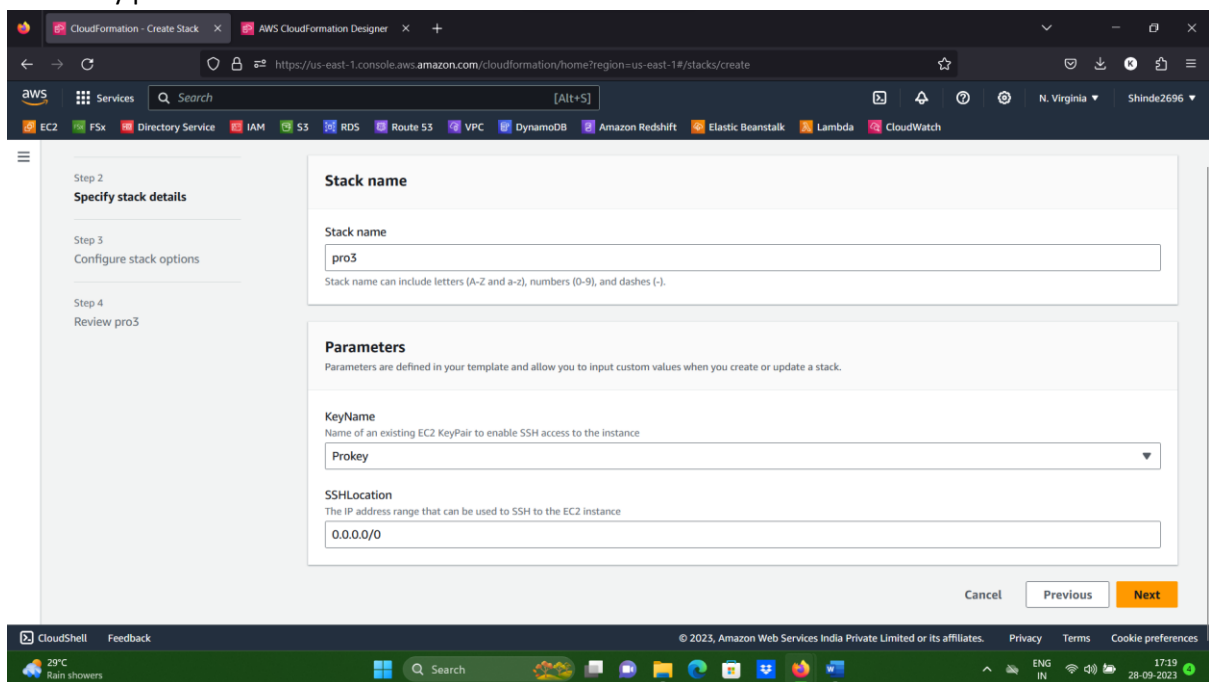
Steps:

Create a Key Pair
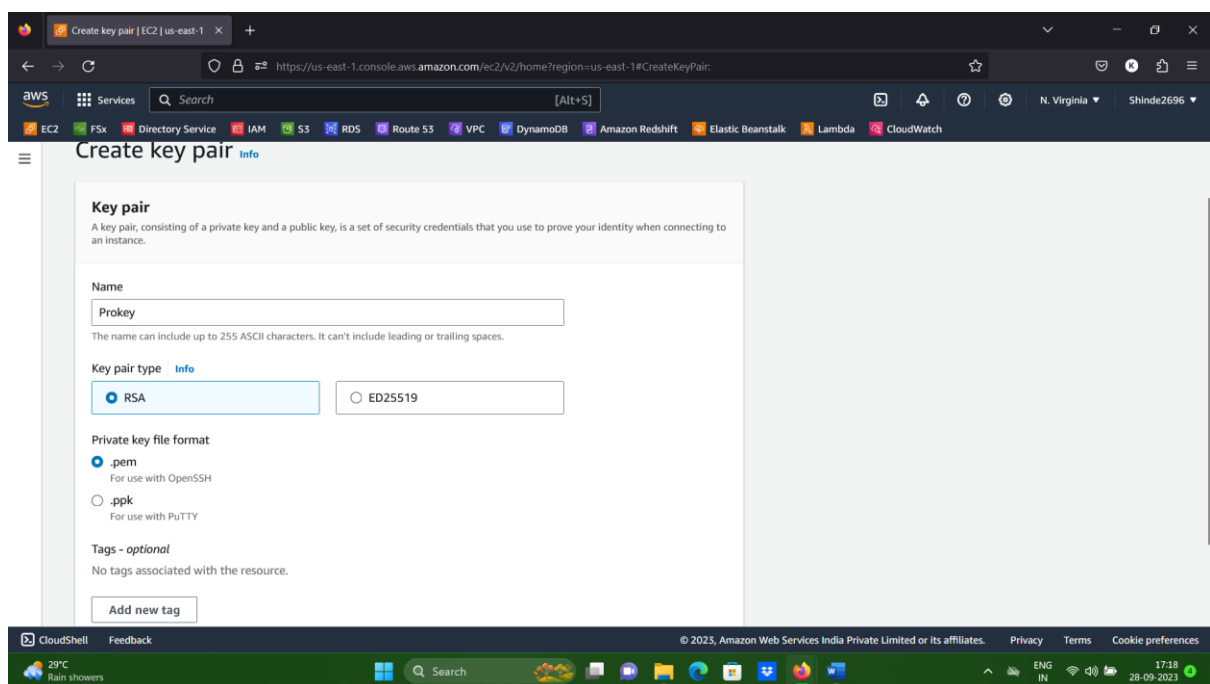
Now will create AWS Resources

Upload the AWS Resource file
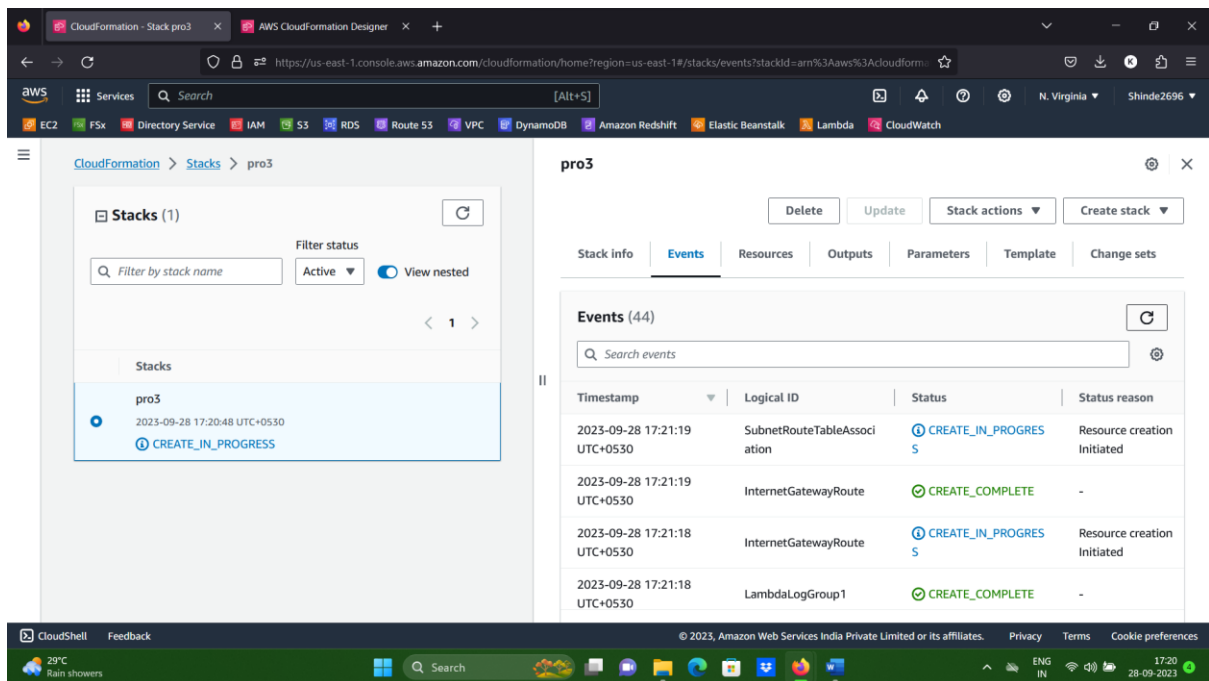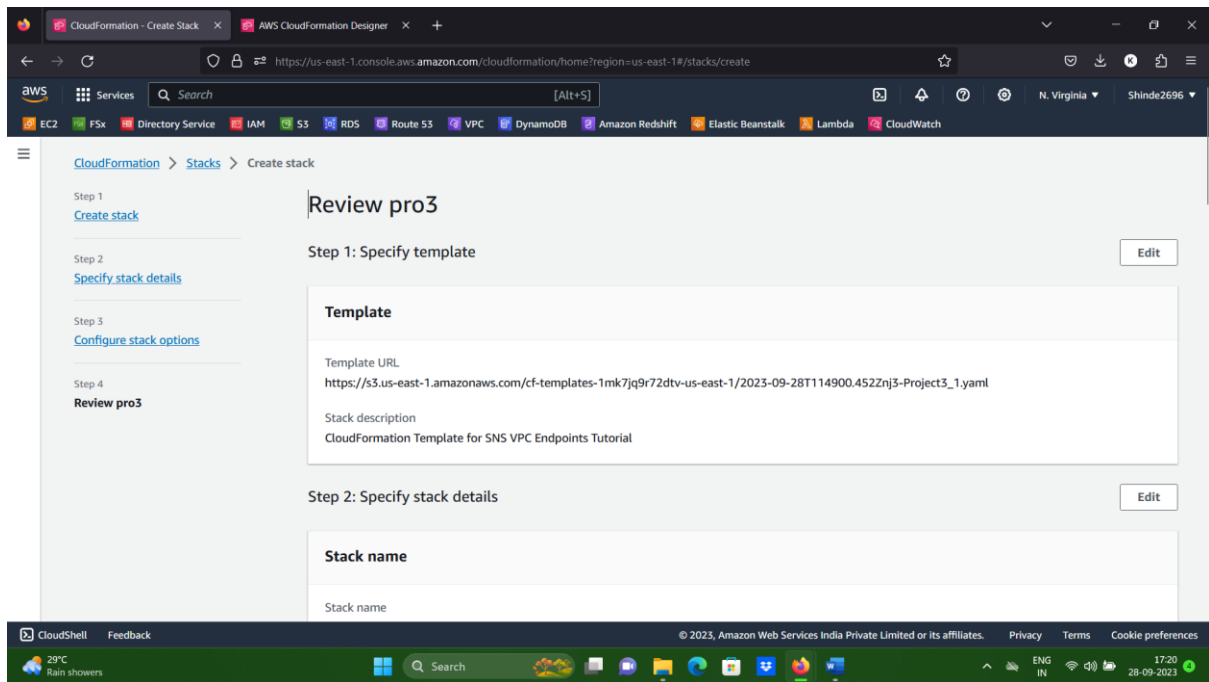
This is how it looks in designer
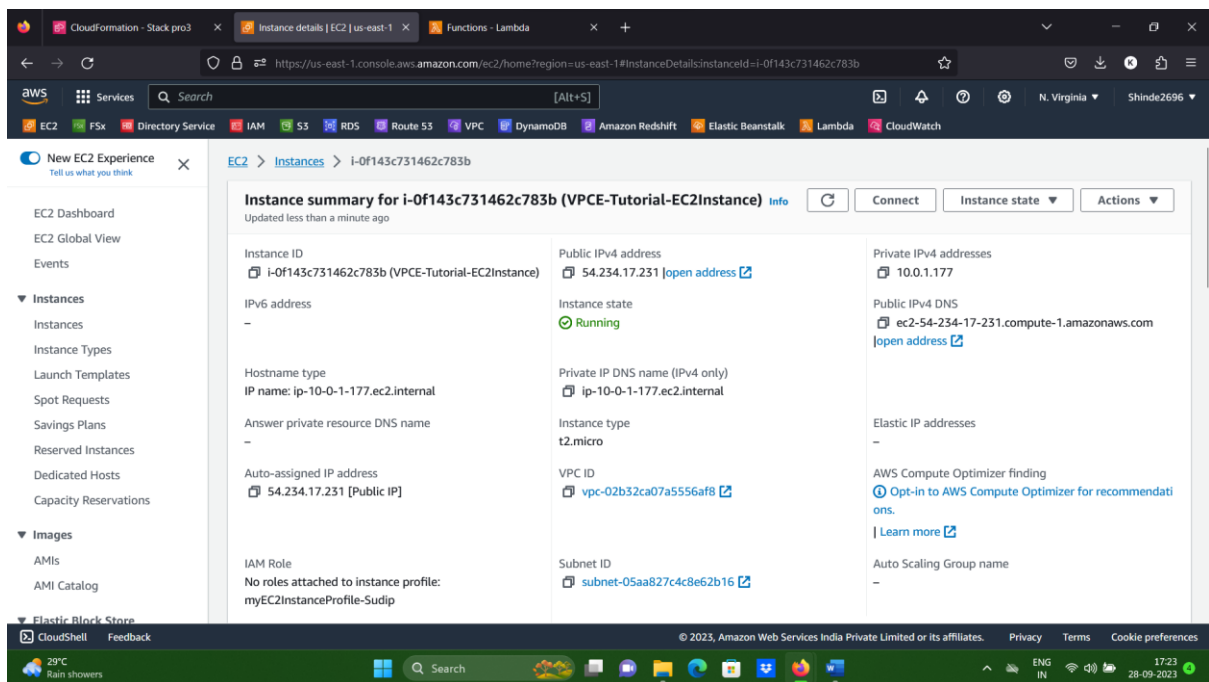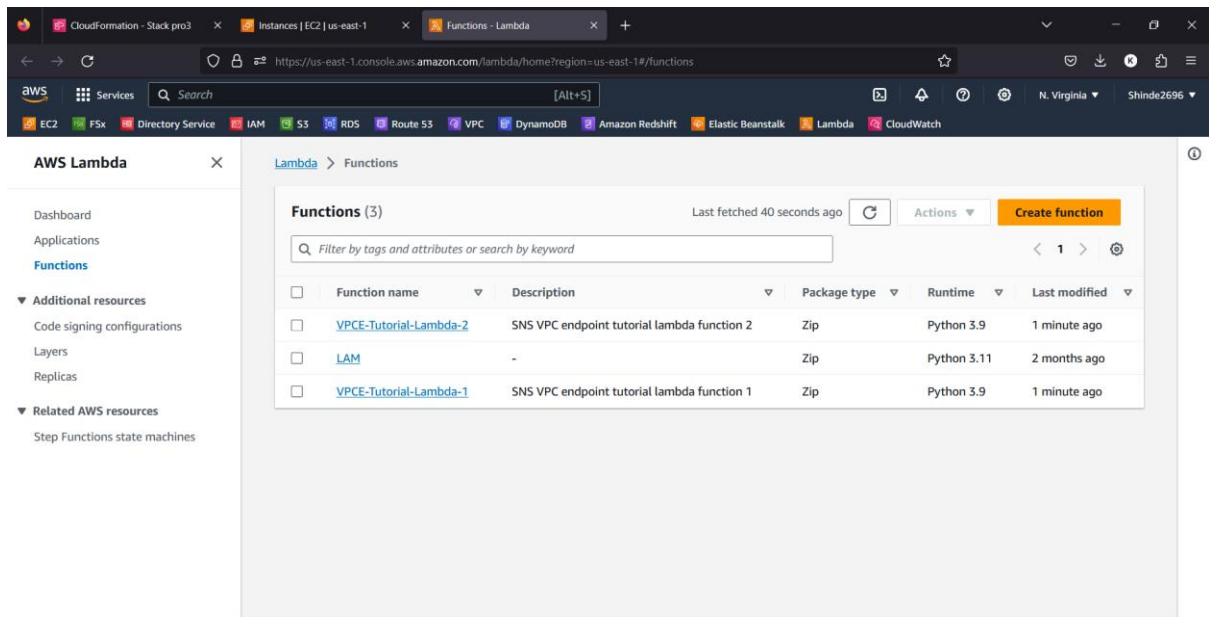

Give Name to stack

Select key pair

Click to create stack wait 5 Mins

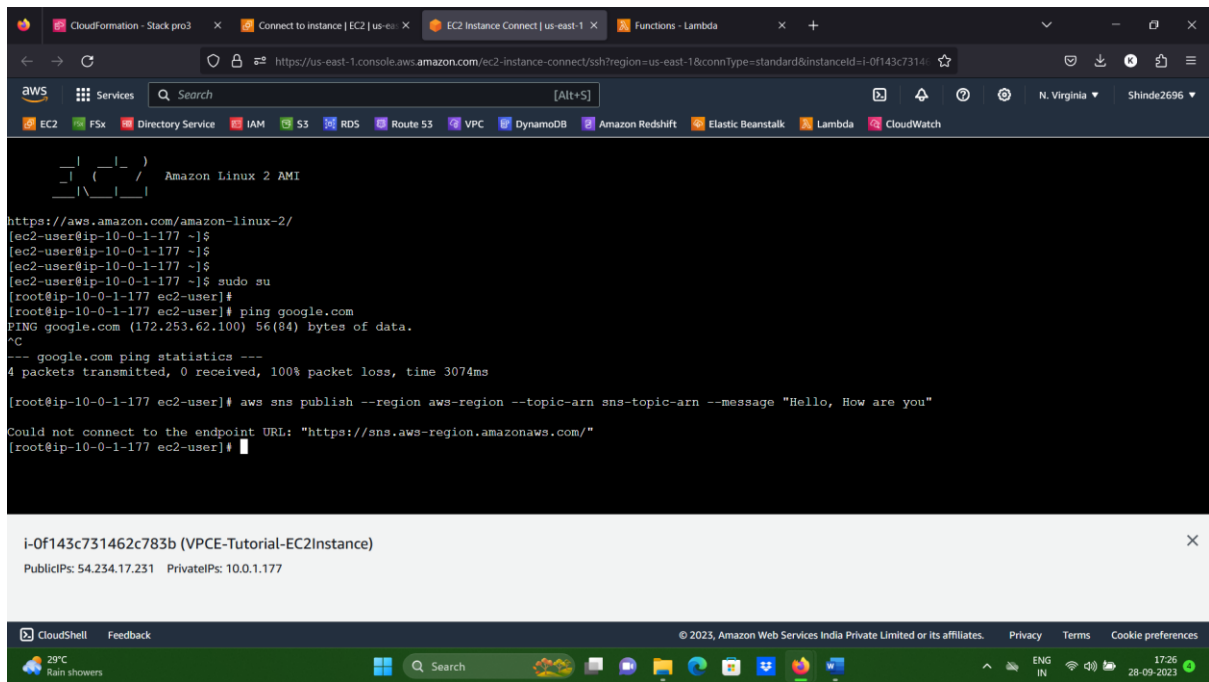Stack is create now check lambda function
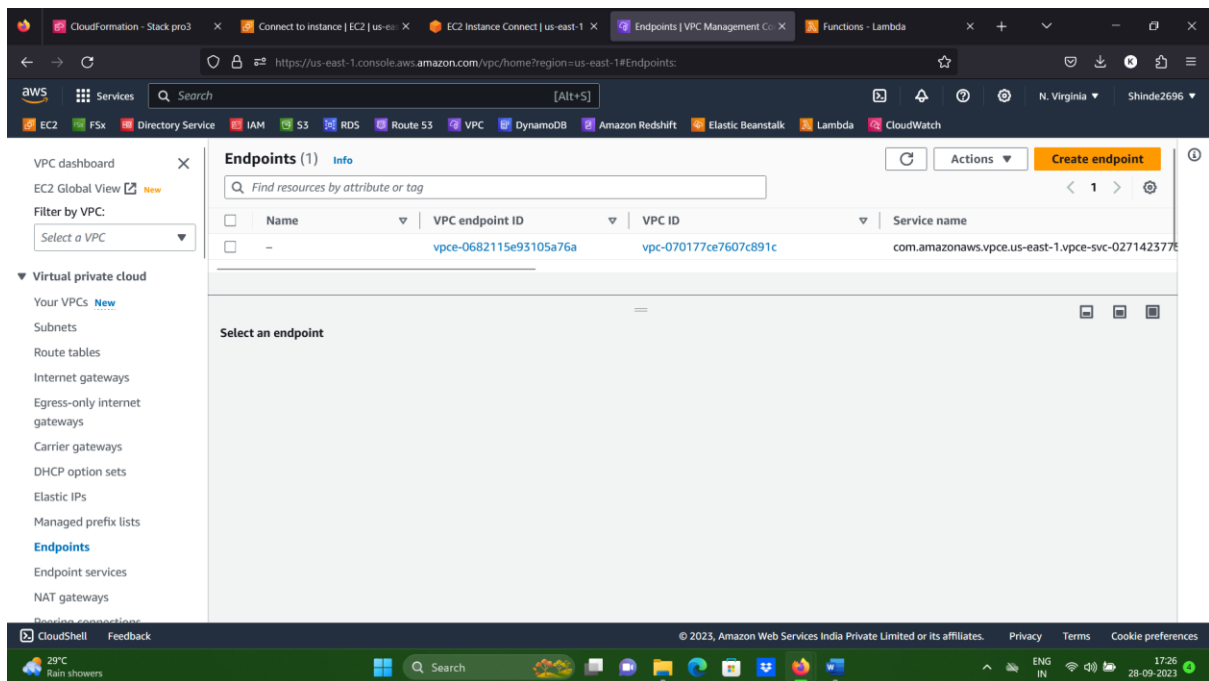
Now Go to your EC2 and Connect to it.

Now Go to your EC2 and Connect to it.

Now Ping Google

Now will try to publish this Hello Message to it.

We are not able to connect to it because we don't have any endpoint so lets create endpoint here

Give Name to endpoint

CloudFormation - Stack pro3 ✕ | Connect to instance | EC2 | us-ea: ✕ | EC2 Instance Connect | us-east-1 ✕ | VPC | us-east-1 ✕ | Functions - Lambda ✕ + ∨ — ⊡ ✕

← → C ○ 🔒 ⇄ https://us-east-1.console.aws.amazon.com/vpc/home?region=us-east-1#CreateVpcEndpoint: ☆

aws ⋮⋮⋮ Services Q Search [Alt+S]

N. Virginia ▾ Shinde2696 ▾

EC2 FSx Directory Service IAM S3 RDS Route 53 VPC DynamoDB Amazon Redshift Elastic Beanstalk Lambda CloudWatch

There are three types of VPC endpoints – Interface endpoints, Gateway Load Balancer endpoints, and Gateway endpoints. Interface endpoints and Gateway Load Balancer endpoints are powered by AWS PrivateLink, and use an Elastic Network Interface (ENI) as an entry point for traffic destined to the service. Interface endpoints are typically accessed using the public or private DNS name associated with the service, while Gateway endpoints and Gateway Load Balancer endpoints serve as a target for a route in your route table for traffic destined for the service.

Endpoint settings

Name tag - optional
Creates a tag with a key of 'Name' and a value that you specify.

Prosns

Service category
Select the service category

- ● **AWS services**
  Services provided by Amazon

- ○ **PrivateLink Ready partner services**
  Services with an AWS Service Ready designation

- ○ **AWS Marketplace services**
  Services that you've purchased through AWS Marketplace

- ○ **EC2 Instance Connect Endpoint**
  An elastic network interface that allow you to connect to resources in a private subnet

- ○ **Other endpoint services**
  Find services shared with you by service name

Services (239)

Q Find resources by attribute or tag

⟨ **1** 2 3 4 5 6 7 … 24 ⟩ ⚙

Service Name	▽	Owner	▽	Type

CloudFormation - Stack pro3 ✕ | Connect to instance | EC2 | us-ea: ✕ | EC2 Instance Connect | us-east-1 ✕ | VPC | us-east-1 ✕ | Functions - Lambda ✕ + ∨ — ⊡ ✕

← → C ○ 🔒 ⇄ https://us-east-1.console.aws.amazon.com/vpc/home?region=us-east-1#CreateVpcEndpoint: ☆

aws ⋮⋮⋮ Services Q Search [Alt+S]

N. Virginia ▾ Shinde2696 ▾

EC2 FSx Directory Service IAM S3 RDS Route 53 VPC DynamoDB Amazon Redshift Elastic Beanstalk Lambda CloudWatch

Service Name = com.amazonaws.us-east-1.sns ✕   **Clear filters**

⟨ 1 ⟩ ⚙

Service Name	▽	Owner	▽	Type	▽

VPC
Select the VPC in which to create the endpoint

VPC
The VPC in which to create your endpoint.

vpc-02b32ca07a5556af8 (VPCE-Tutorial-VPC) ▽   ↻

▶ Additional settings

Subnets (1/6) Info

☑	Availability Zone	▽	Subnet ID	▽	Designate IP addresses	IPv4 address	▽	IPv6 address	▽
☑	us-east-1a (use1-az4)		subnet-05aa827c4c8e62b... ▾		☐				
☐	us-east-1b (use1-az6)		ⓘ No subnet available		☐				
☐	us-east-1c (use1-az1)		ⓘ No subnet available		☐				
☐	us-east-1d (use1-az2)		ⓘ No subnet available		☐				

Create Endpoint

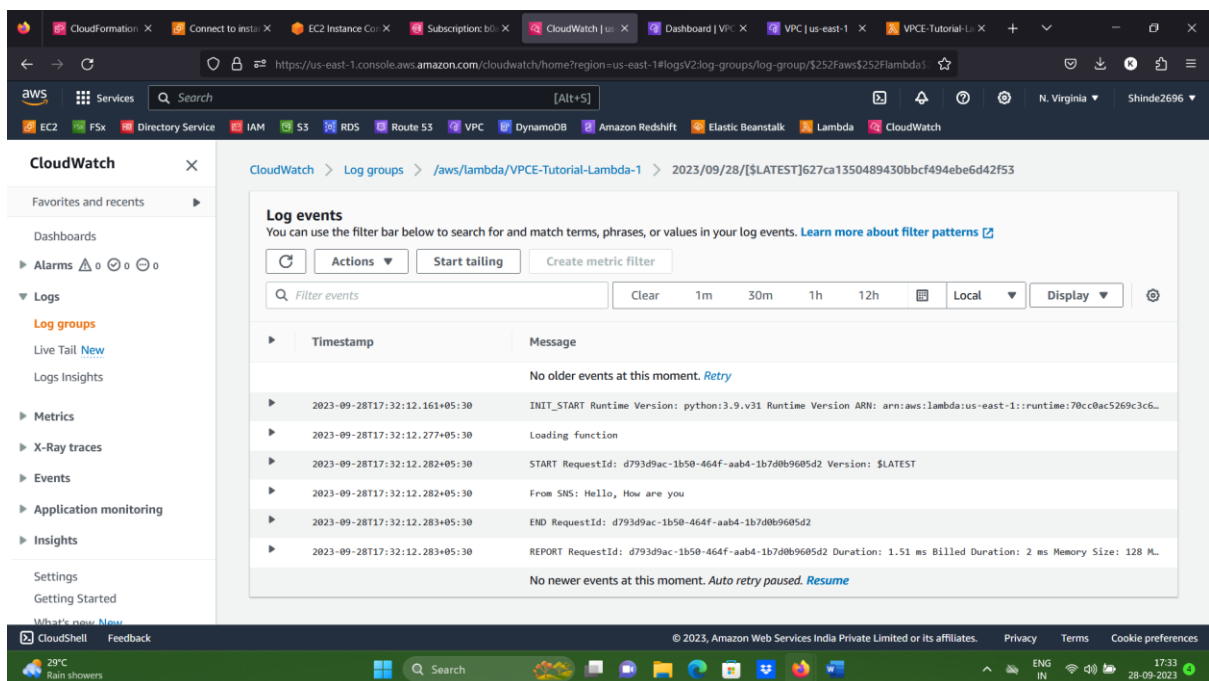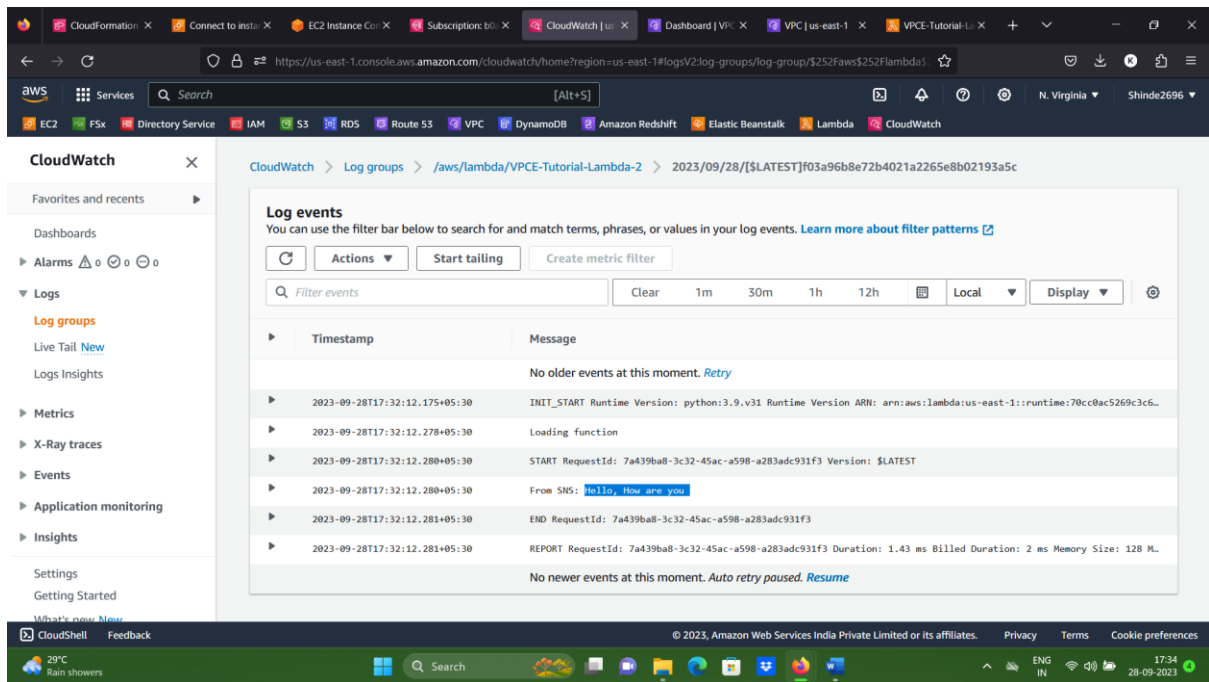Now will try to publish and done here we able to publish message.
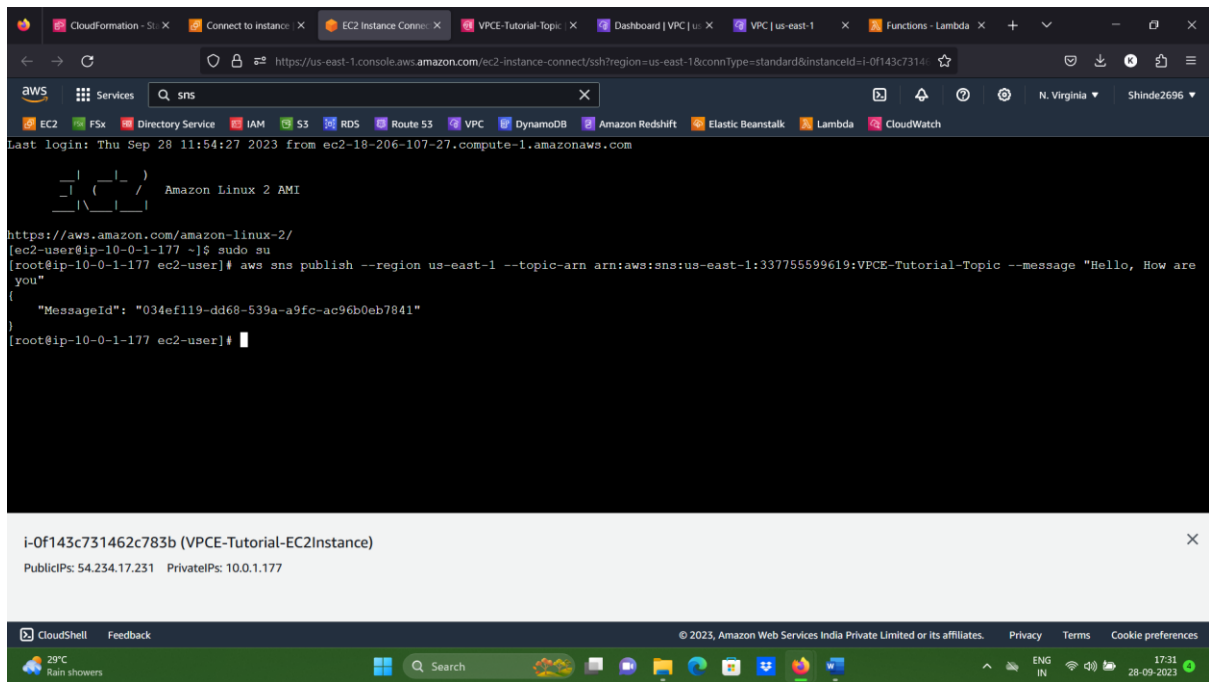
Here is the Message ID generated.

Now go to your Lambda function and check the Metrics where the Count is Increased or not.

Now go to cloud watch logs and check is there any message is generated or not.

We received on message.

Here we have completed our Project 3.