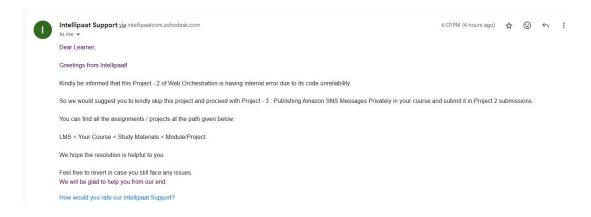
As per support I am doing project 3 instead of project 2



Industry: Healthcare

Problem Statement:

How to secure patient records online and send it privately to the intended party

Topics:

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.

Highlights:

- 1. AWS CloudFormation to create a VPC
- Connect VPC with AWS SNS
- 3. Publish message privately with SNS

Step 1: we will luanch vpc, ec2, sns via cloud formation

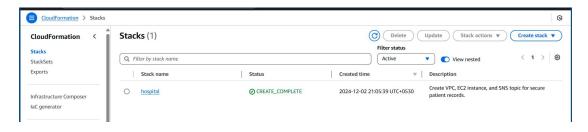
Here the yaml format which we used to launch the stack

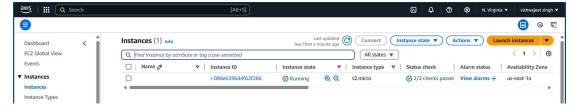
```
AWSTemplateFormatVersion: '2010-09-09'
Description: Create VPC, EC2 instance, and SNS topic for secure patient records.
Resources:
```

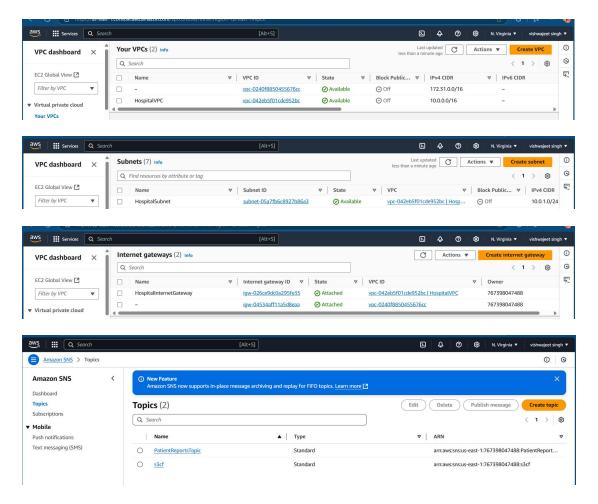
```
VPC:
  Type: AWS::EC2::VPC
  Properties:
   CidrBlock: 10.0.0.0/16
   EnableDnsSupport: true
   VpcId: !Ref VPC
   CidrBlock: 10.0.1.0/24
       - 0
      - Key: Name
       Value: HospitalSubnet
  Type: AWS::EC2::VPCGatewayAttachment
  Properties:
   VpcId: !Ref VPC
   InternetGatewayId: !Ref InternetGateway
   VpcId: !Ref VPC
  Properties:
   RouteTableId: !Ref RouteTable
   SubnetId: !Ref Subnet
   DestinationCidrBlock: 0.0.0.0/0
  Type: AWS::EC2::SecurityGroup
  Properties:
   GroupDescription: Enable SSH and HTTP access
```

```
VpcId: !Ref VPC
SecurityGroupIngress:
    - IpProtocol: tcp
        FromPort: 22
        ToPort: 22
        CidrIp: 0.0.0.0/0
        - IpProtocol: tcp
        FromPort: 80
        ToPort: 80
        CidrIp: 0.0.0.0/0
```

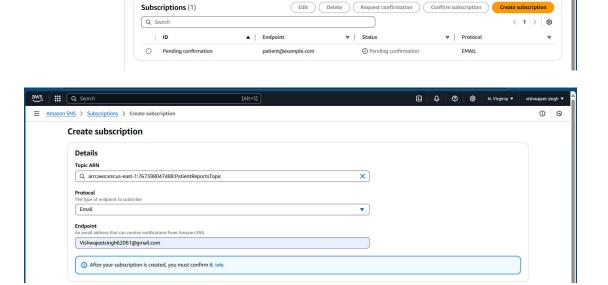






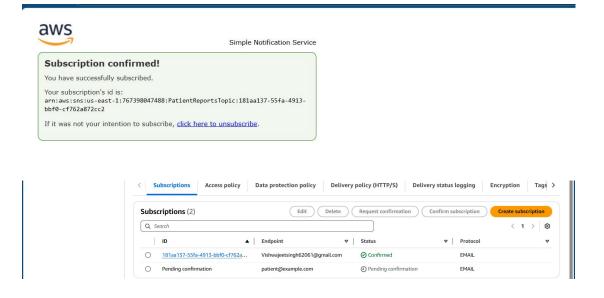


Step 2: go inside SNS and create the subscription

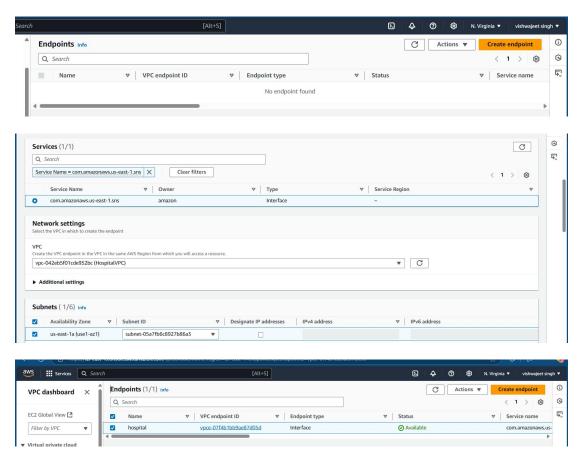


Subscriptions Access policy Data protection policy Delivery policy (HTTP/S) Delivery status logging Encryption Tags >

Go to email inbox and accept the subcription



Step 3: create vpc endpoint



Step 4 : connect with ec2 instance and run below command

aws sns publish --region us-east-1 --topic-arn arn:aws:sns:us-east-1:767398047488:PatientReportsTopic --message "we are executing project-3"

[ec2-user@ip-172-31-17-52 ~]S aws sns publish --region us-east-1 --topic-arn arn:aws:sns:us-east-1:767398047488:FatientReportsTopic --message "we are executing project3"
fl5aba8a-63aa-5422-a874-e5488c0023e
[ec2-user@ip-172-31-17-52 ~]S

