# Project 3 – Publishing Amazon SNS Messages Privately

**Project:** Publishing Amazon SNS messages privately

**Industry:** Healthcare

Problem Statement: How to secure patient records online and send it privately to the

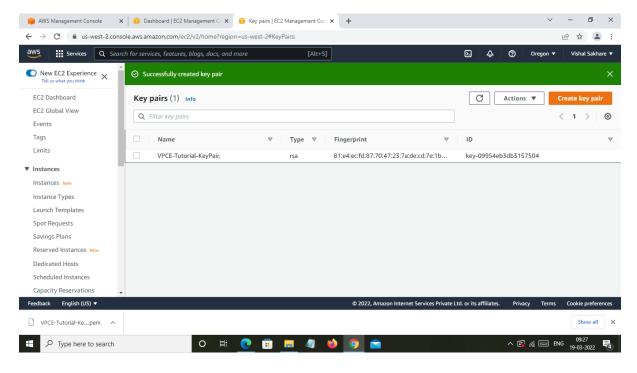
intended party

**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 which 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.

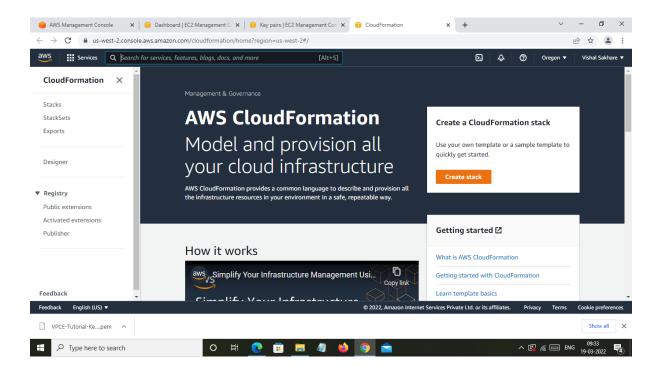
### Highlights:

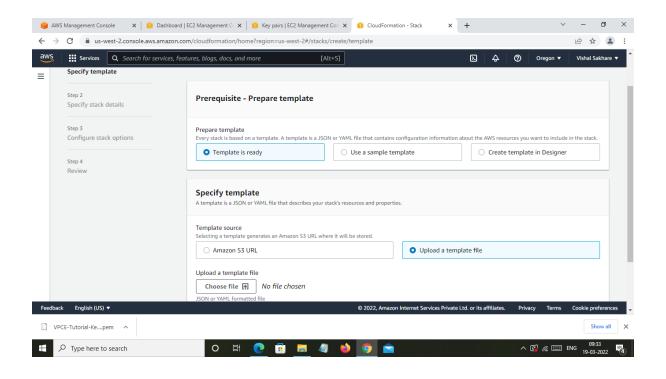
- AWS CloudFormation to create a VPC
- Connect VPC with AWS SNS
- Publish message privately with SNS

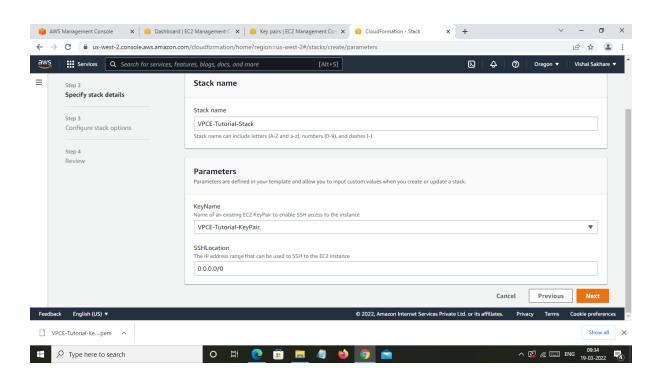
# Step 1: Create an Amazon EC2 Key Pair

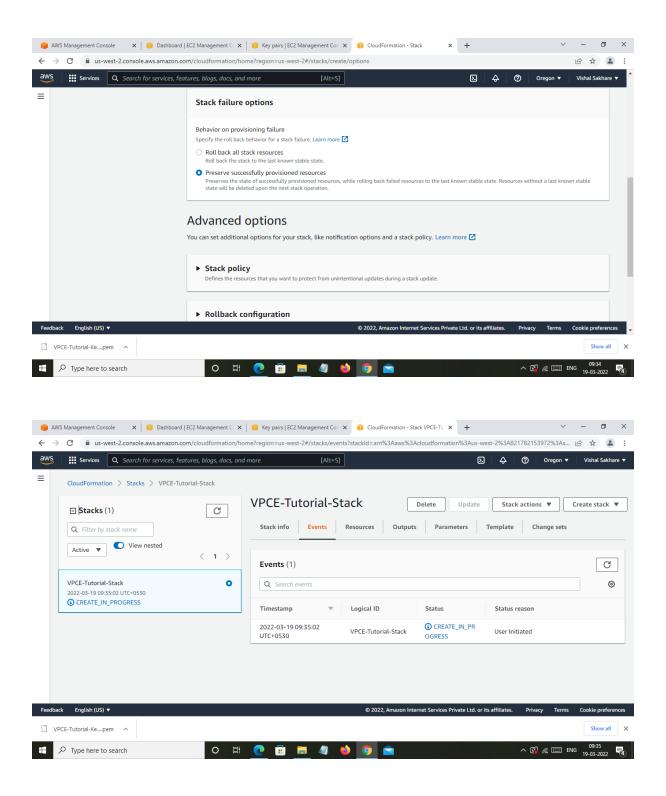


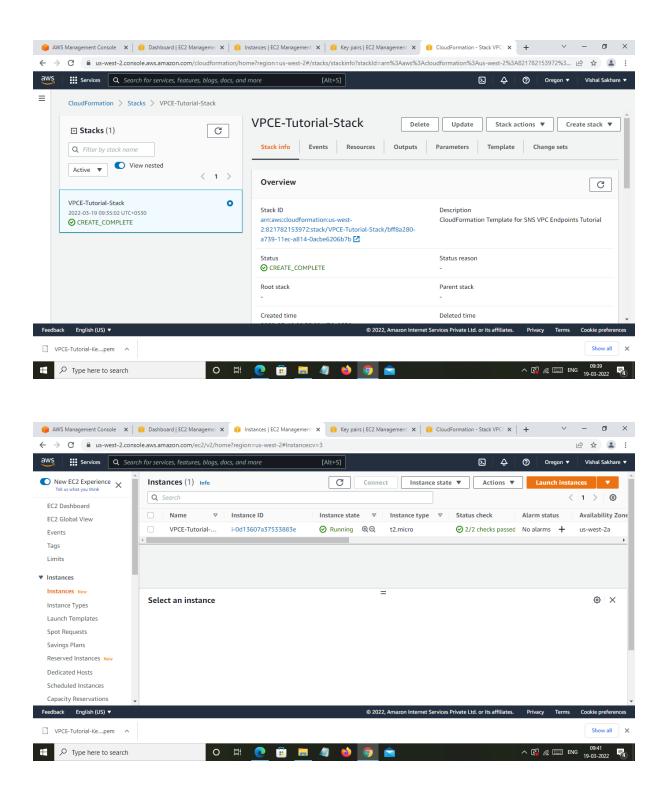
# **Step 2: Create the AWS Resources**







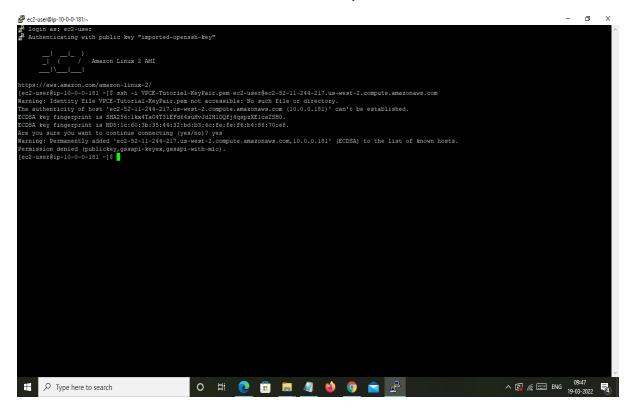




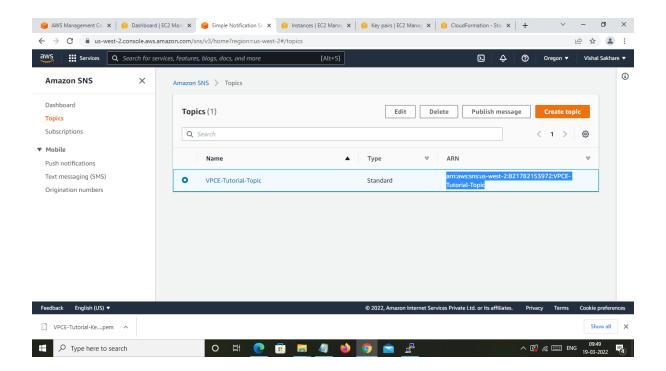
# Step 3: Confirm That Your Amazon EC2 Instance Lacks Internet Access

#### To connect to your Amazon EC2 instance

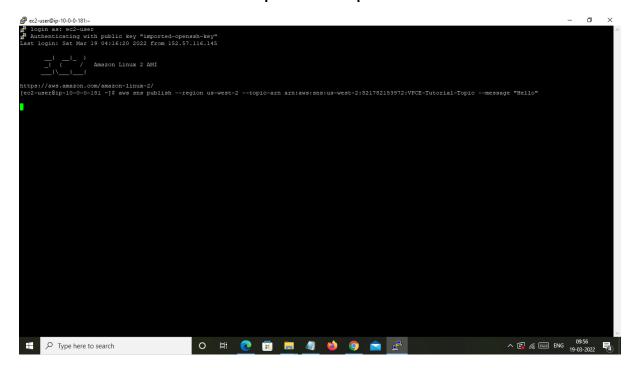
#### connection attempt fails



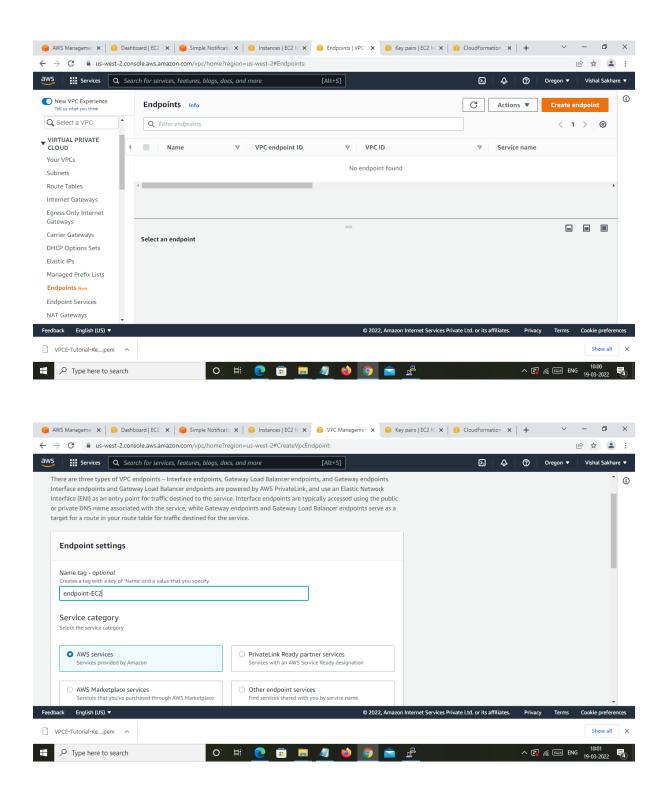
## To verify that the instance lacks connectivity to Amazon SNS

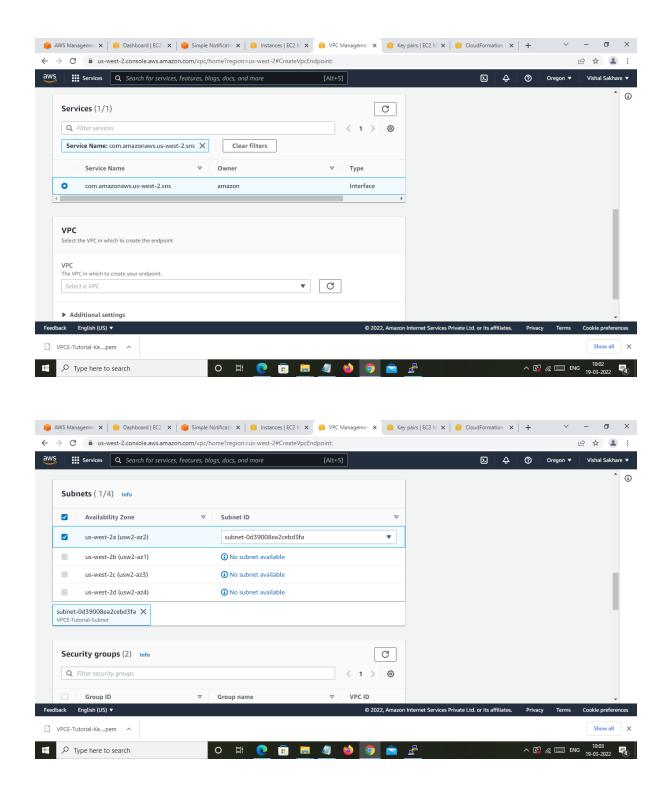


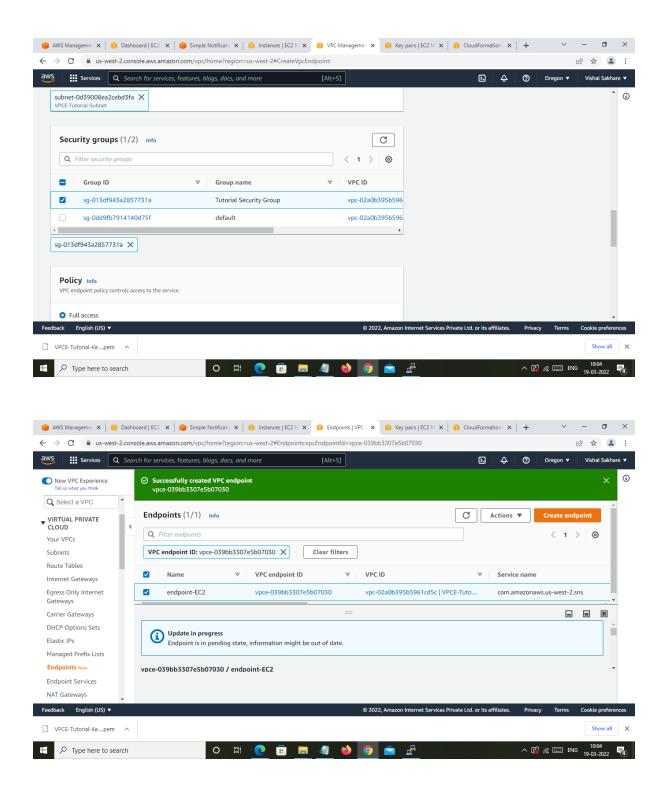
# the publish attempt fails

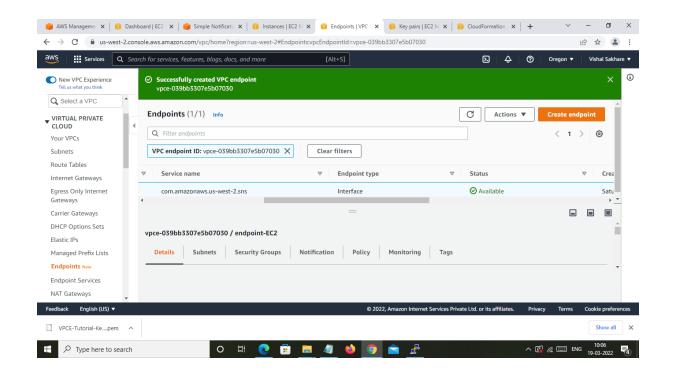


Step 4: Create an Amazon VPC Endpoint for Amazon SNS

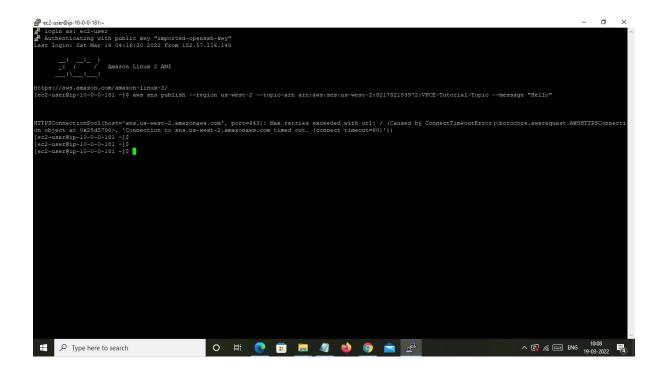


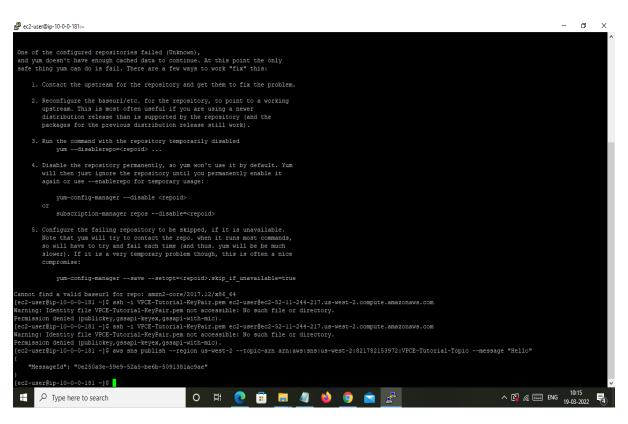




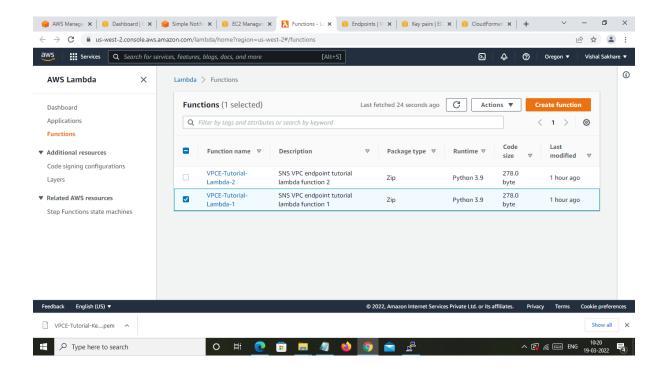


#### To publish a message

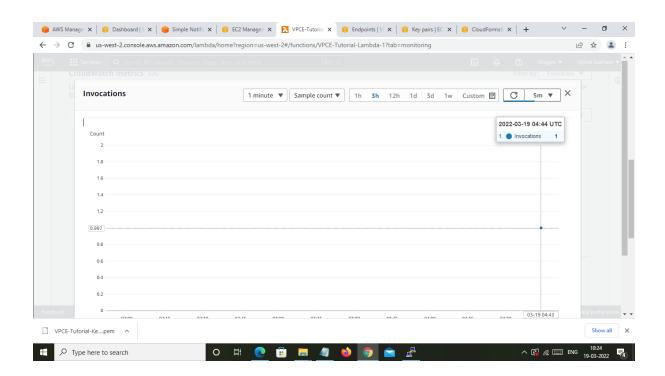




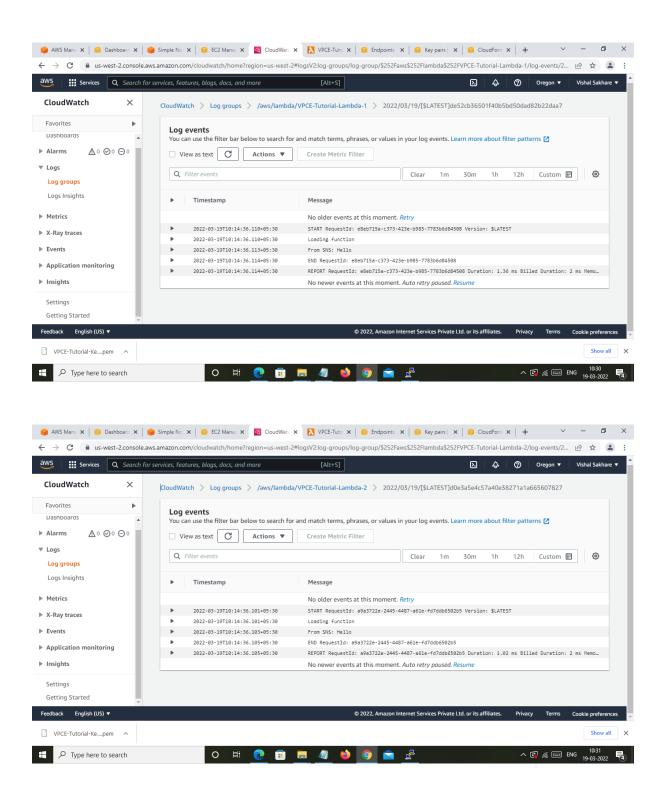
**Step 6: Verify Your Message Deliveries** 



### To verify that the Lambda functions were invoked



### To verify that the CloudWatch logs were updated



# Step 7: Clean Up

