Project - 3

Publishing Amazon SNS messages privately

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 notification. 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 message privately, you can improve the message delivery and receipt through Amazon SNS.

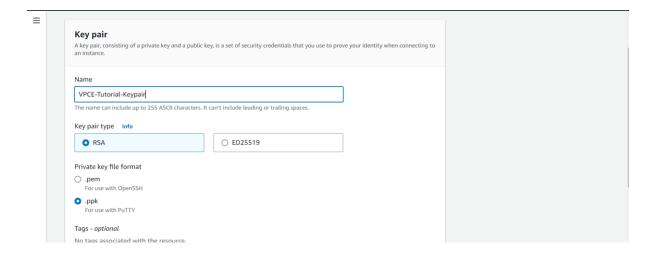
Highlights:

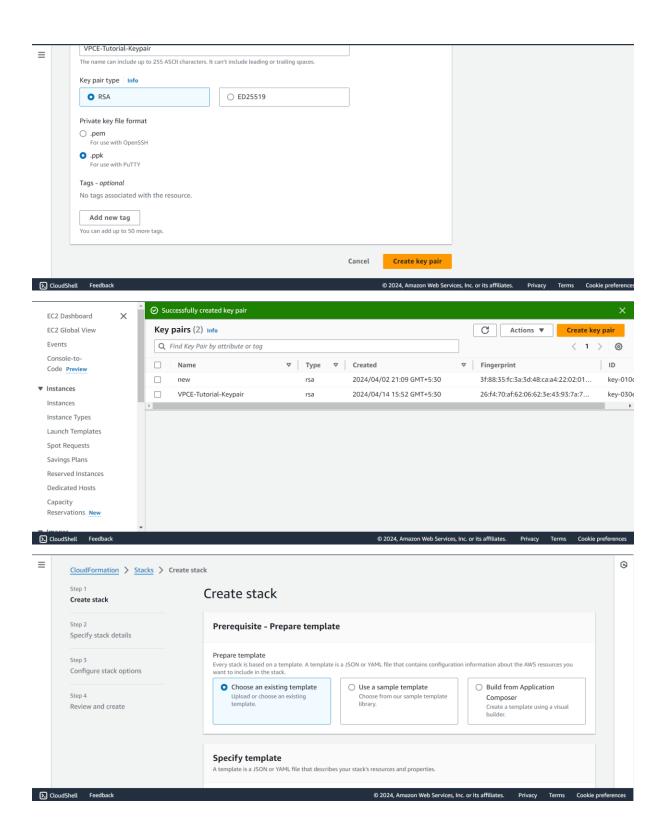
- 1. AWS Cloud Formation to create a VPC
- 2. Connect VPC with AWS SNS
- 3. Publish message privately with SNS

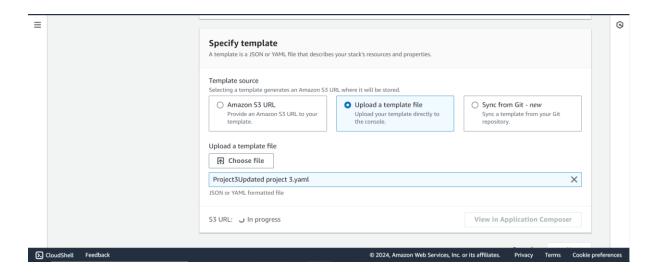
Steps:

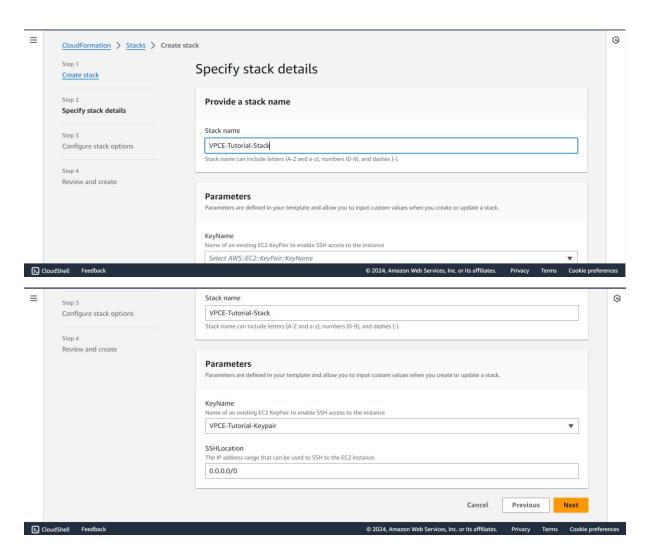
- Click the create key pair
- Provide the name of the key pair as VPCE-Tutorial-Keypair
- Finally key pair is created
- Click the create stack
- Next upload the code-yaml file to create the necessary resource
- Provide the name for the stack as VPC-Tutorial-Stack
- Select the key pair which was created and SSH location as 0.0.0.0/0 in parameter
- And provide the necessary cornification
- Click the submit
- Finally the stack is created
- Connect to EC2 to instance which was created by cloud formation
- To check the instance lack of internet connectivity run the command ping amazon.com
- Click the create endpoint

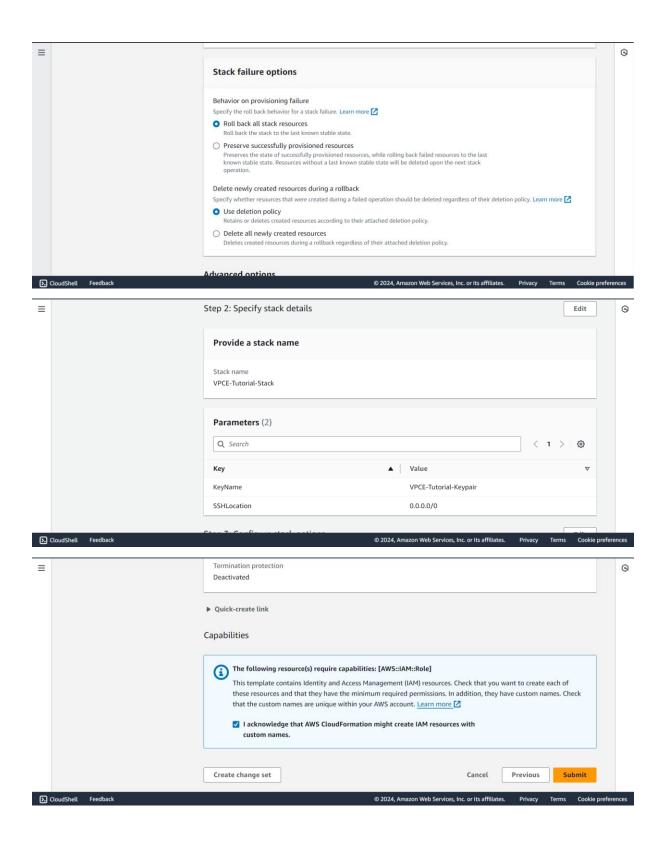
- Provide the name for the endpoint
- Select the AWS service in service category
- Select the SNS of the region where the stack is created
- Select the VPC and subnet which was created by stack
- Select the security group which was created by stack
- Finally endpoint is created
- Navigate to SNS and Go into the Topic
- And click the create subscription
- Select the protocol as Email and provide the necessary in endpoint
- Finally subscription is created
- A subscription mail will be received to provided mail ID and confirm the same
- Navigate to EC2 and connect to Instance
- To publish the message by running the command by aws sns publish -region aws-region --topic-arn sns-topic-arn --message "Necessary message"
- Now the message will be received to the mail ID which is provided in the creation of subscription
- Also check weather message published successfully by navigating to lambda
- Click the lambda function which was created by stack
- Go to the monitor and go to view cloudwatch log
- Next go inside the log stream and the published message will be reflected.

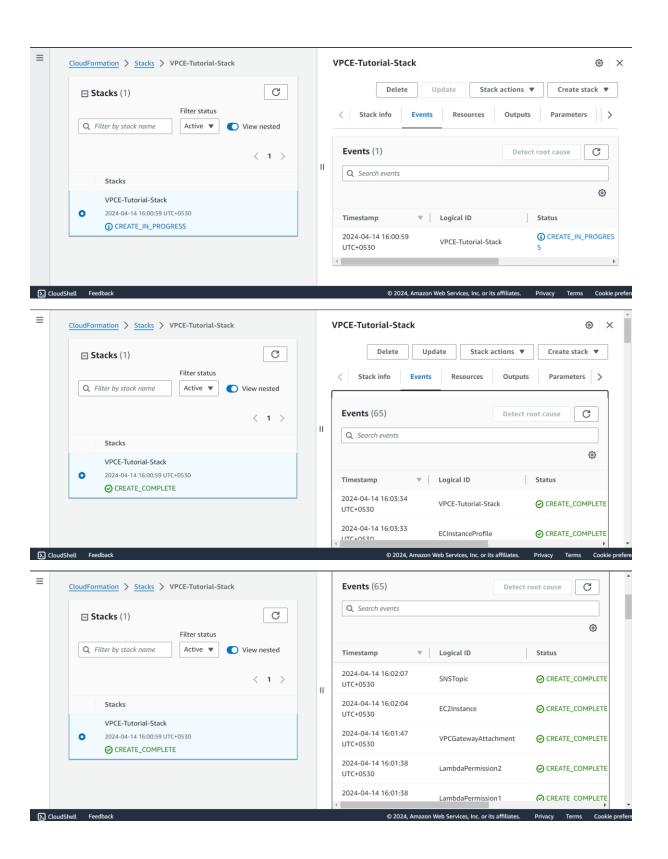


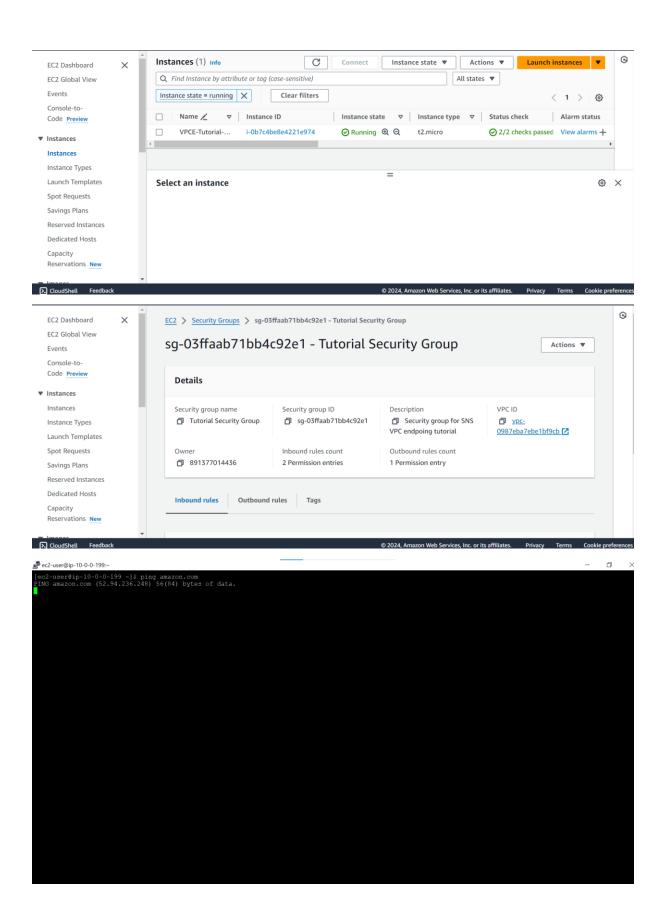


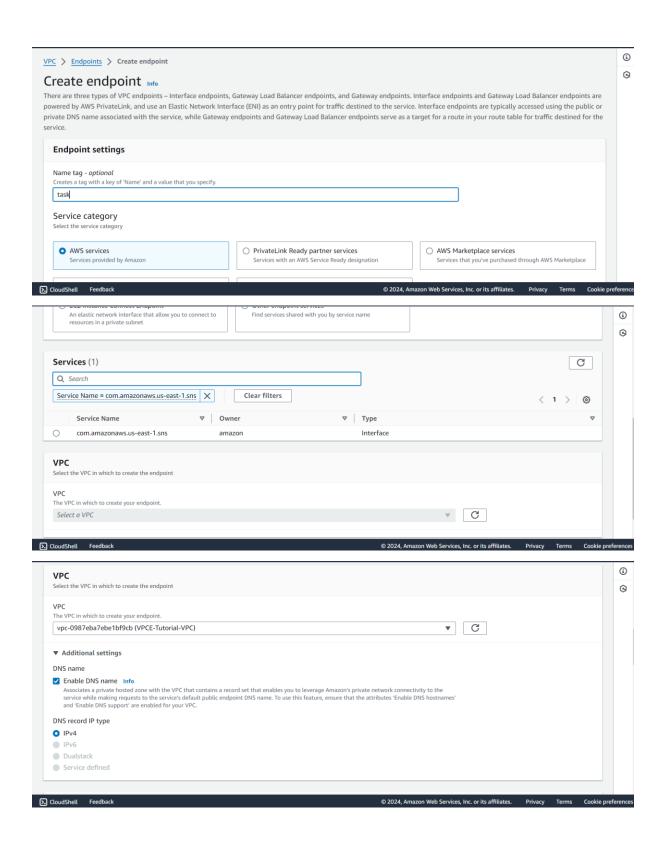


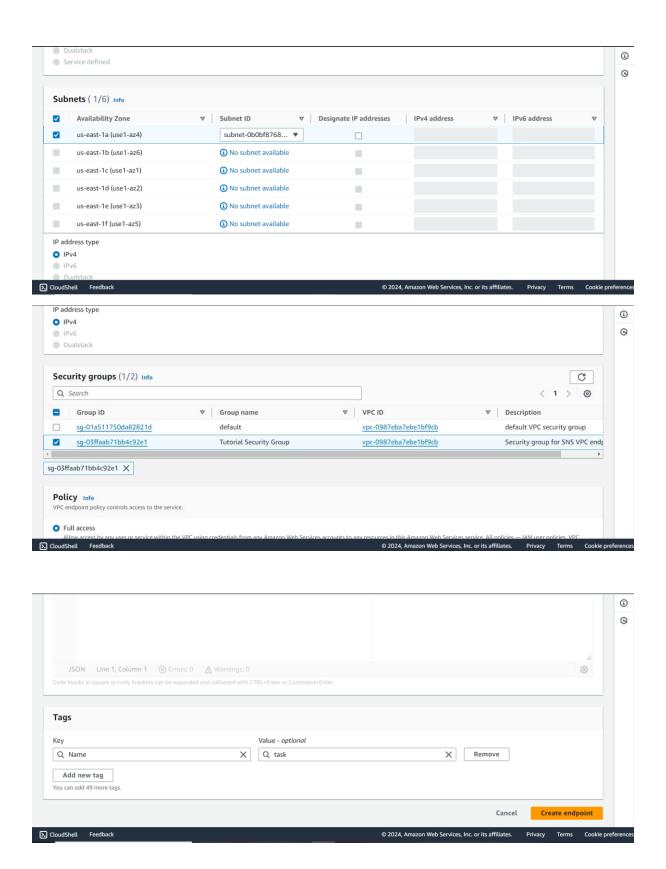


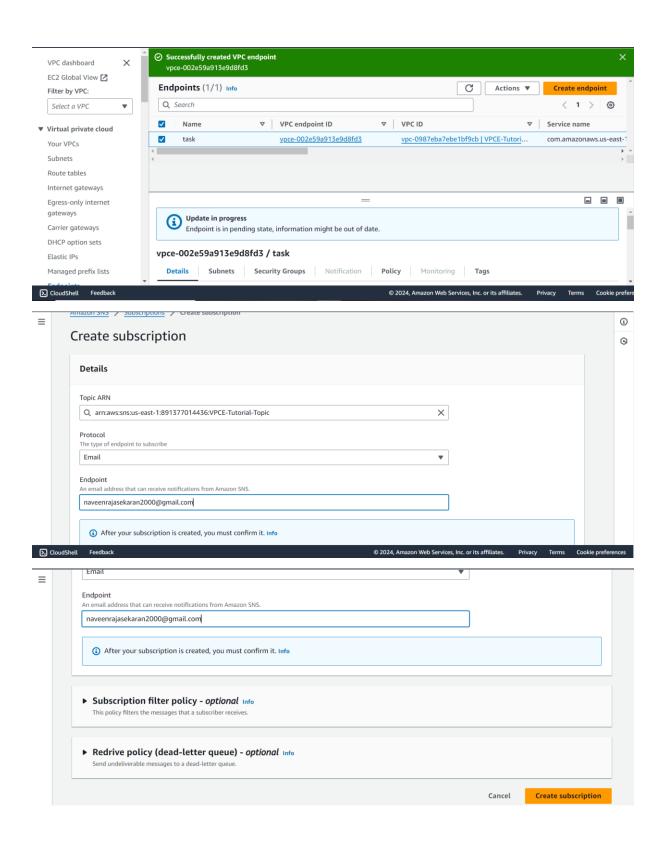


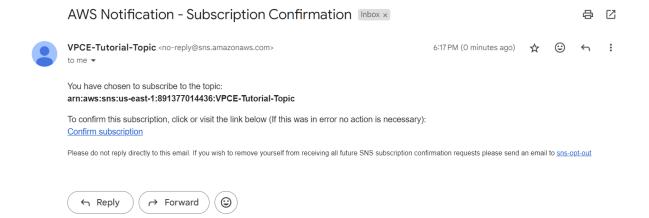


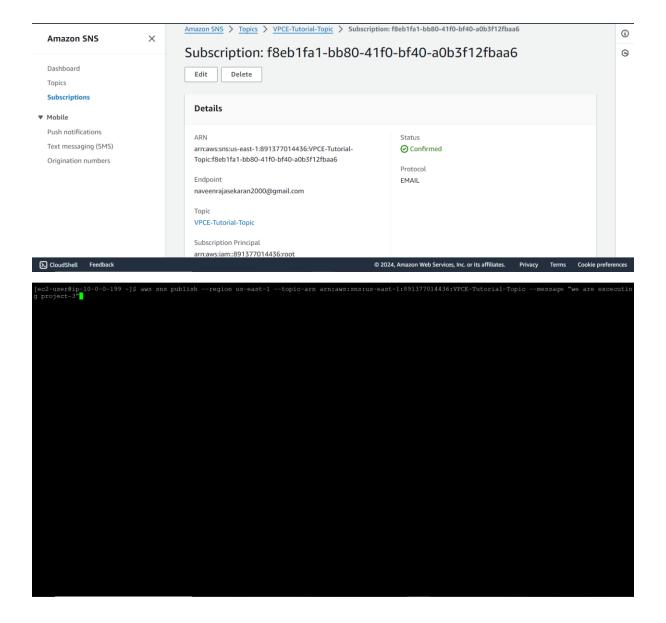
















we are excecuting project-3

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