Name :- sai sreenivas eerla
Location :- Hyderabad
Date :- 06th february 2024
Project :- Hospital Report Notification

Project Description :-

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.

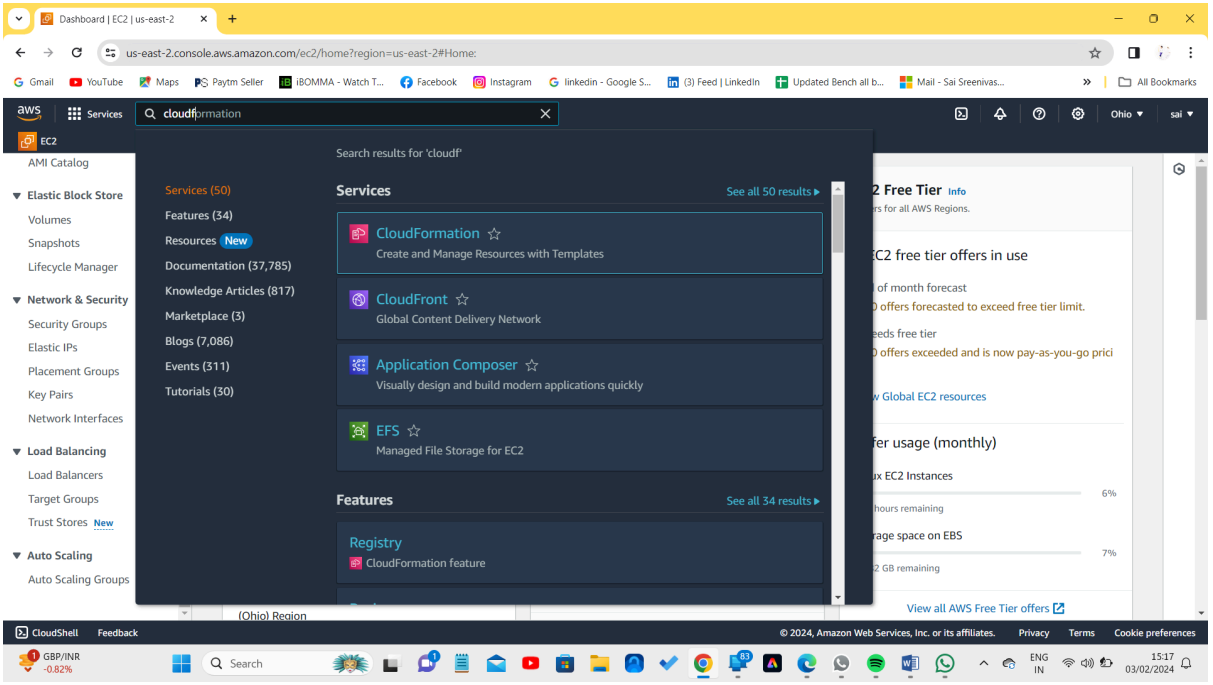
Highlights:

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

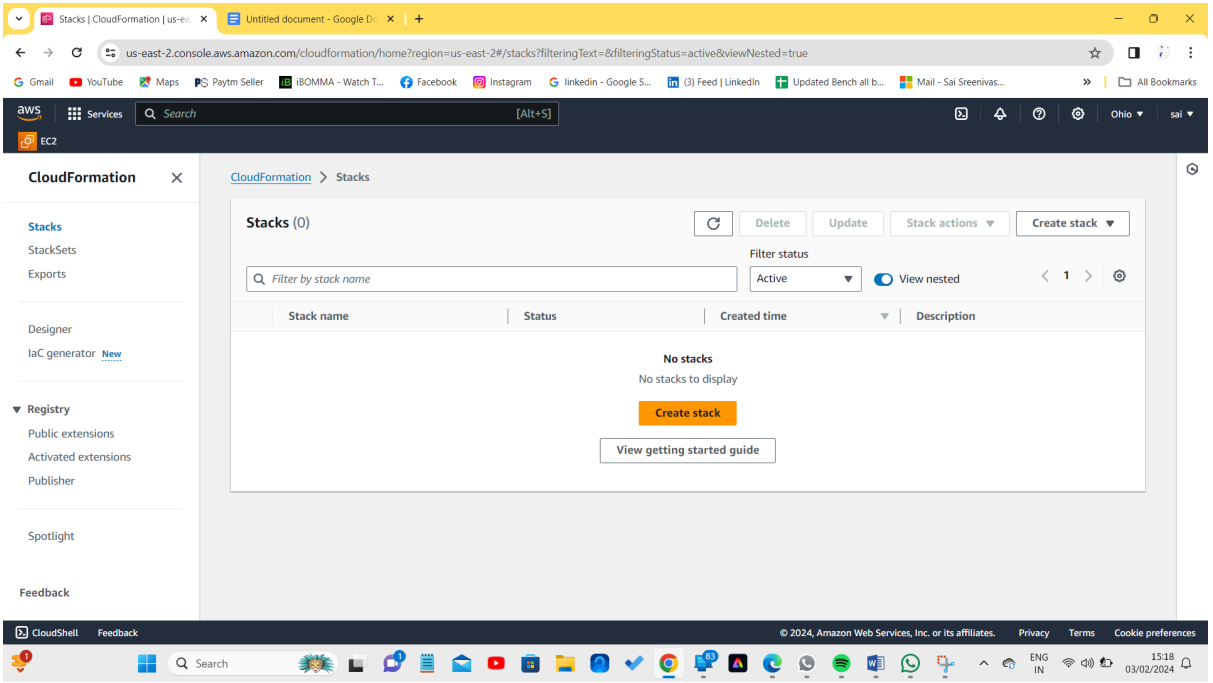
Follow the steps to complete the hospital project with aws.

SOLUTIONS:-

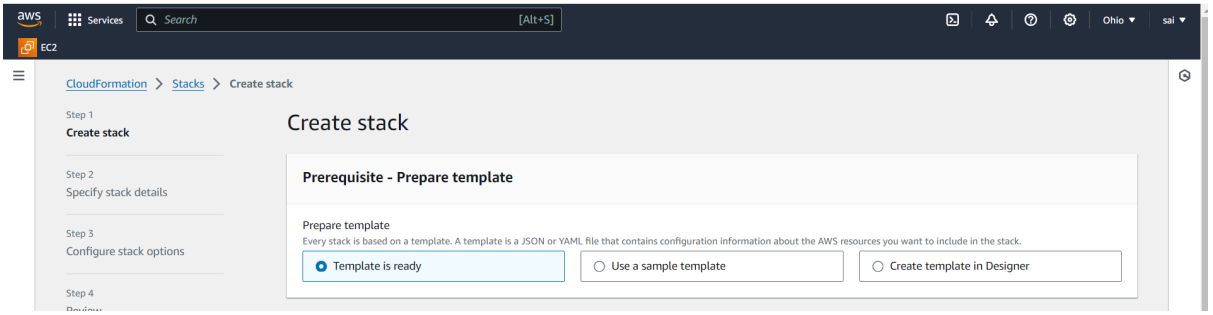
OPEN THE AWS MANAGEMENT CONSOLE AND OPEN THE SEARCH BAR CLICK TO SEARCH THE CLOUDFORMATION.



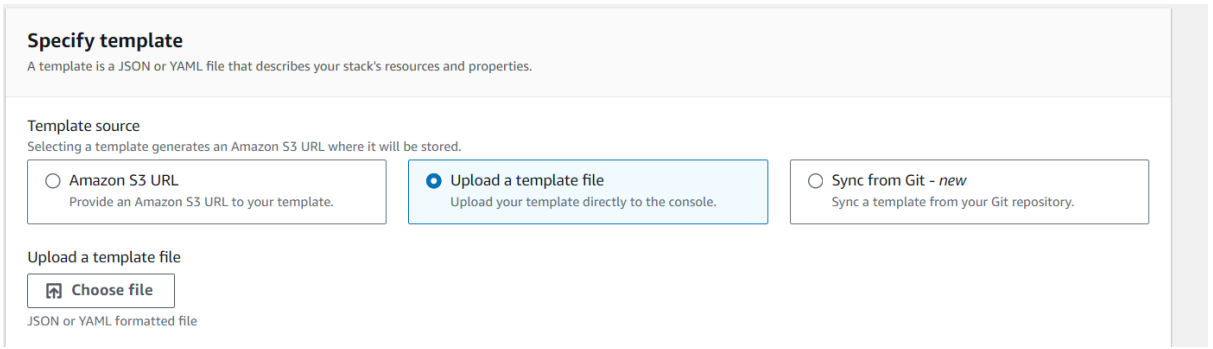
THEN OPEN THE CLOUDFORMATION DASHBOARD OPEN THE STACKS HOMEPAGE.



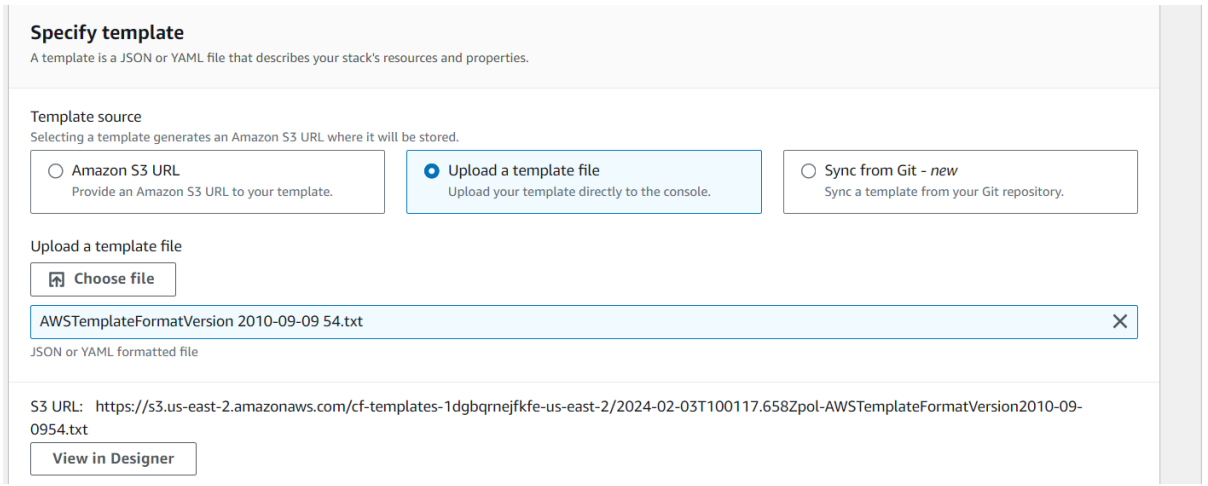
CLICK TO OPEN THE STACKS OPTION AND GO TO THE CREATE STACK IN CLOUDFORMATION.
GIVE THE PREREQUISITE - PREPARE TEMPLATE..DETAILS.



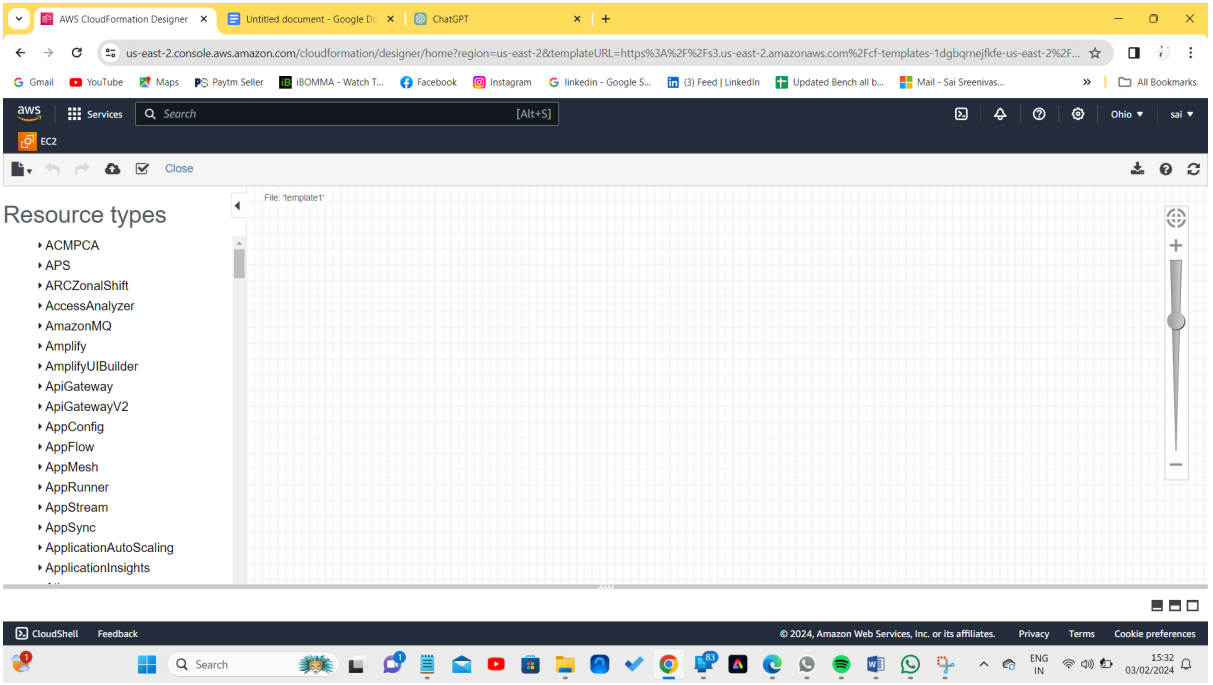
GIVE THE SPECIFY TEMPLATE SOURCE DETAILS IN CLOUDFORMATION AND UPLOAD A FILE.



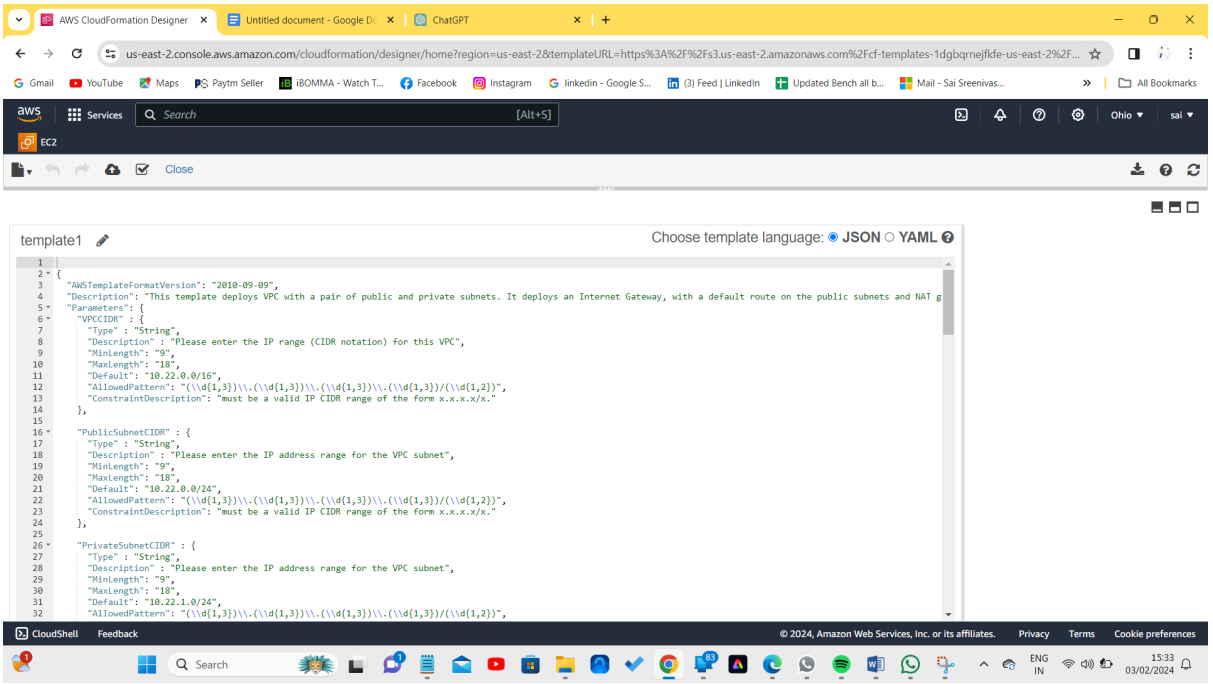
CLICK TO OPEN AND UPLOAD A TEMPLATE FILE LOCAL BROWSER.
SEE THE UPLOAD FILE S3 URL IN YAML FORMAT.



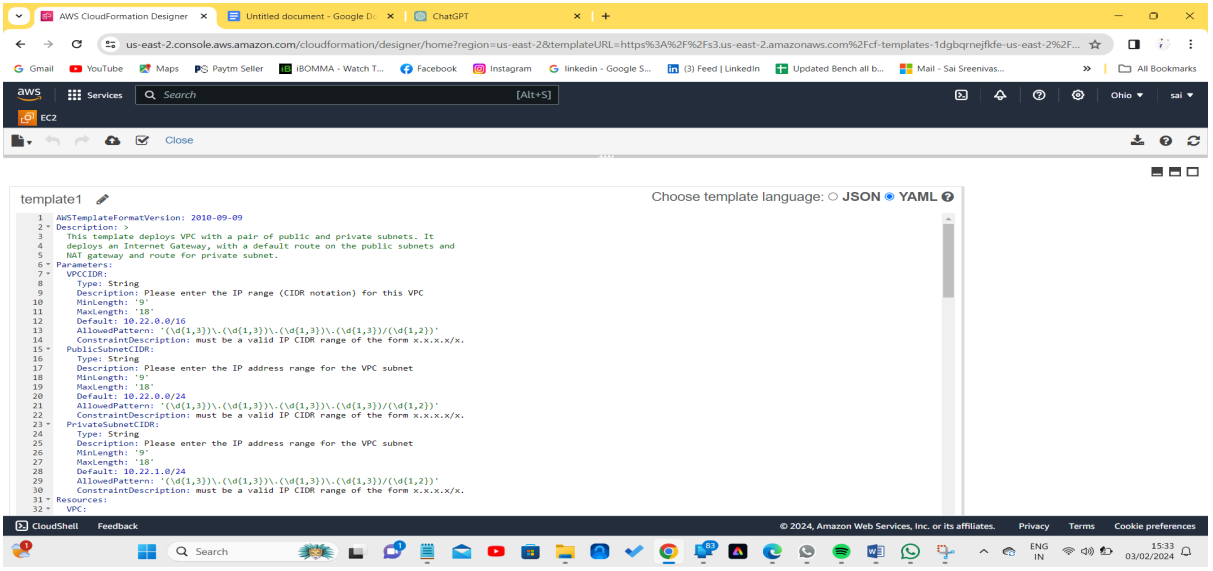
OPEN THE RESOURCE TYPES IN AWS..

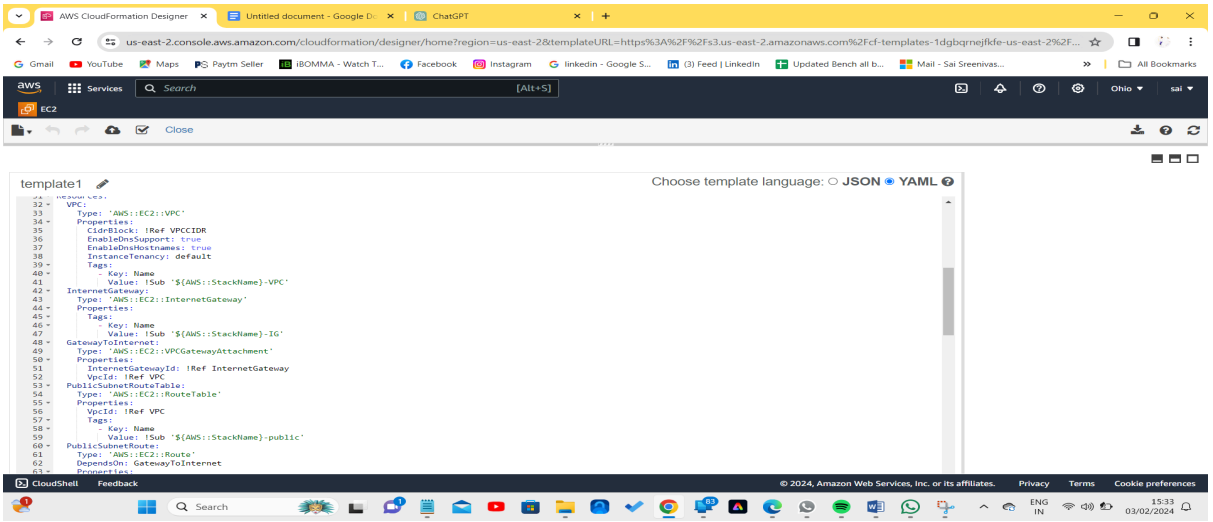


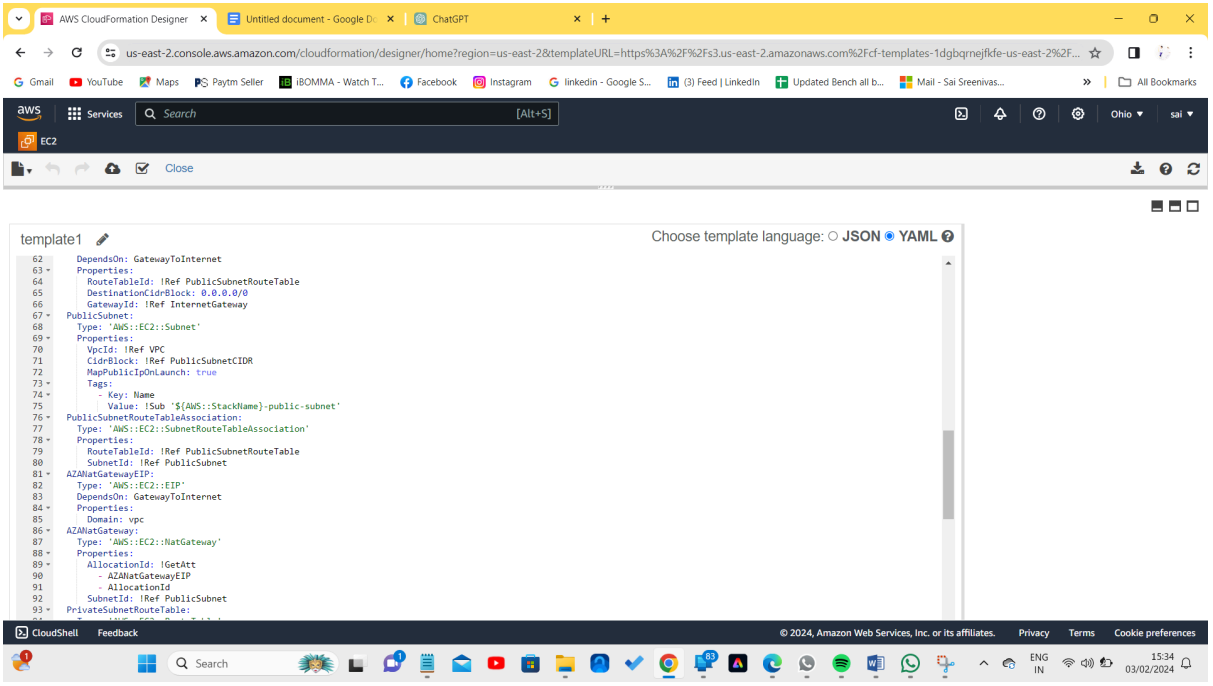
TEMPLATE 1 UPLOAD THE FILE FORMAT IN JSON ..

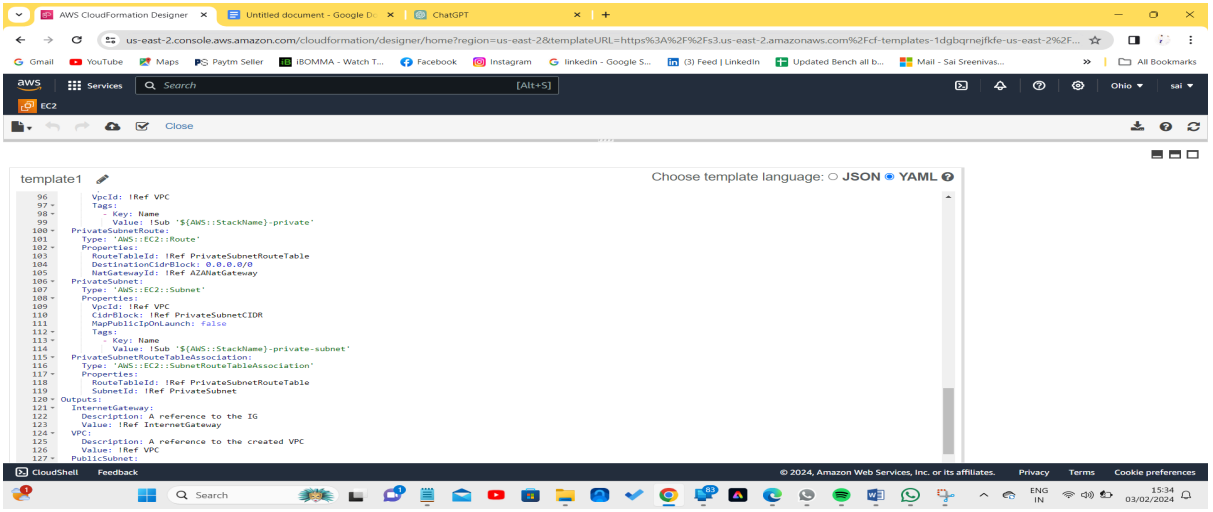


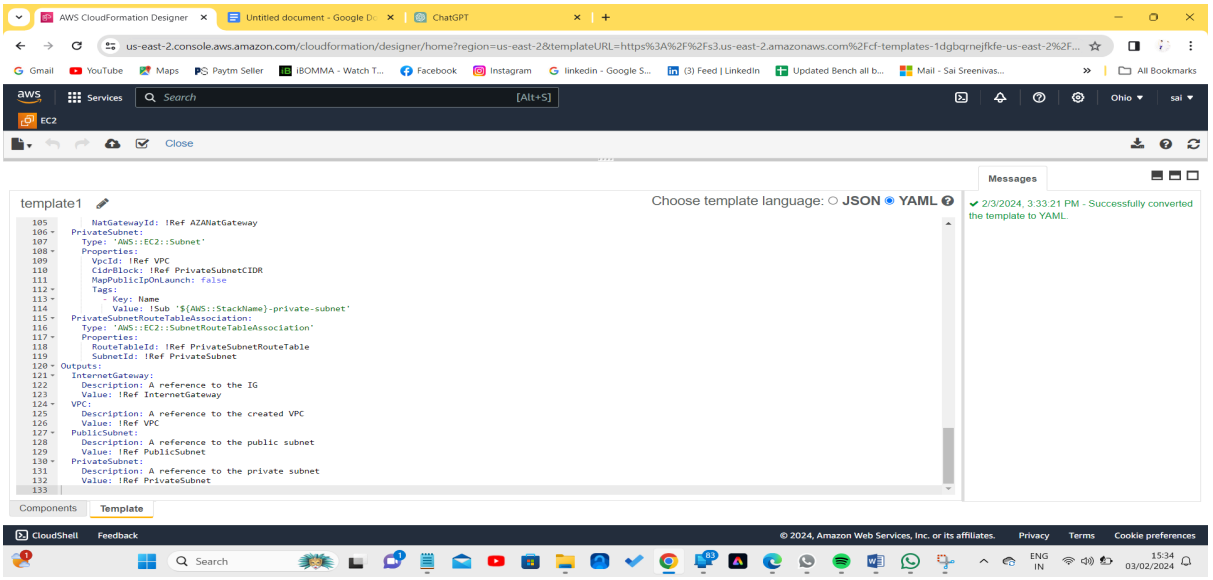
SEE THE TEMPLATE1 DETAILS IN YAML FORMAT.



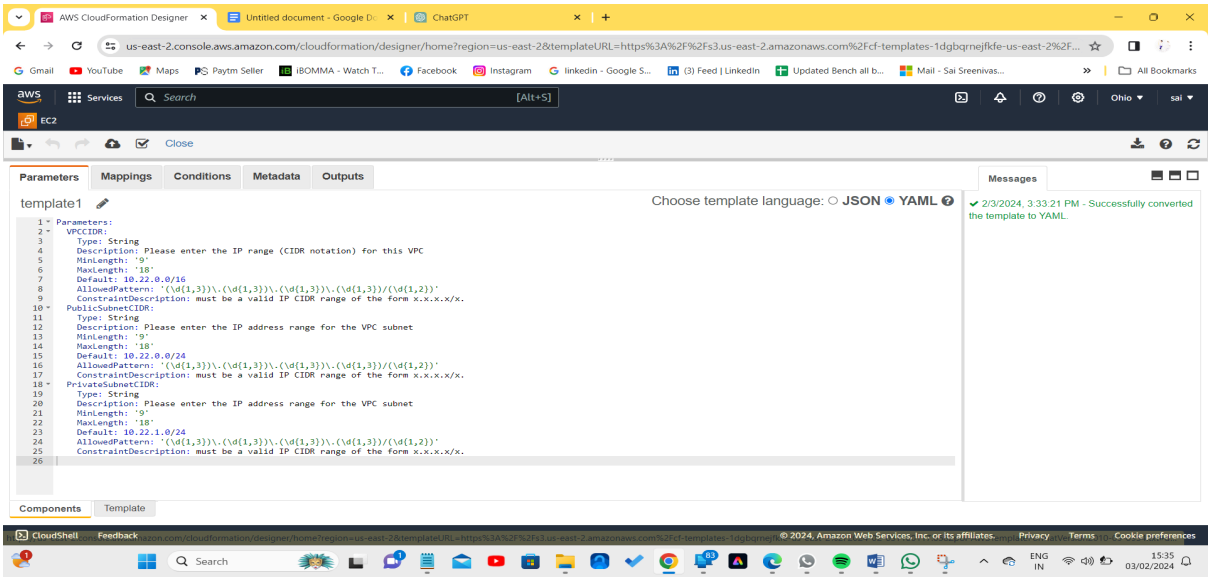




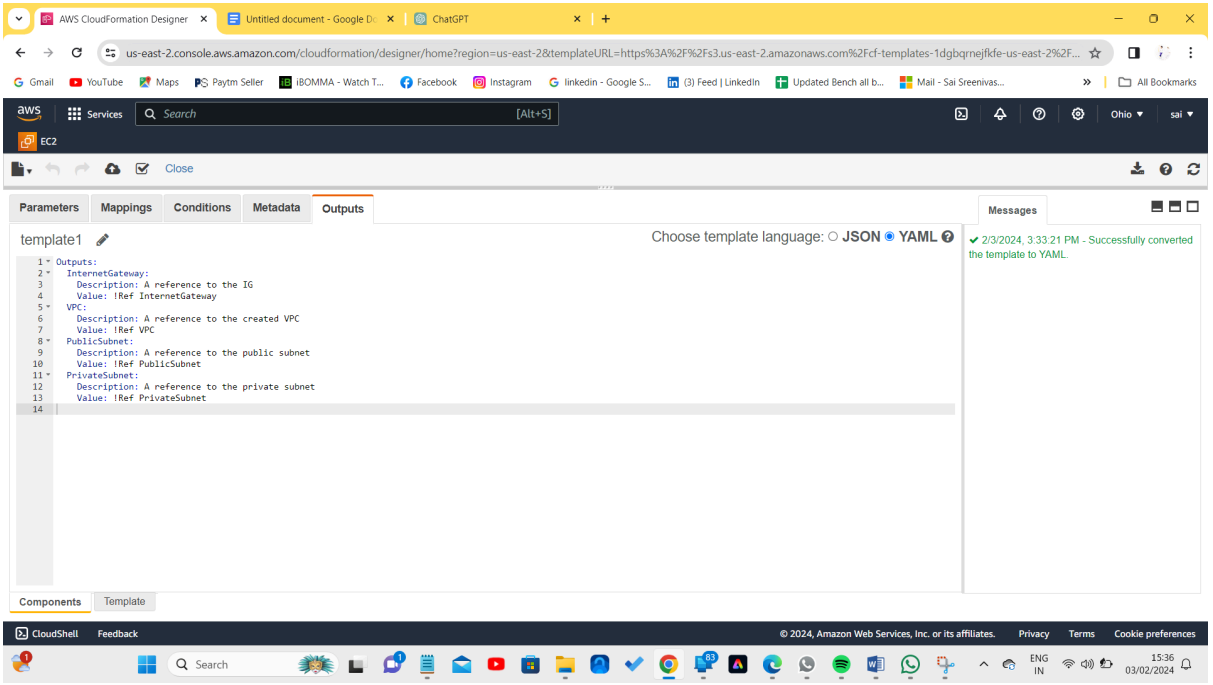




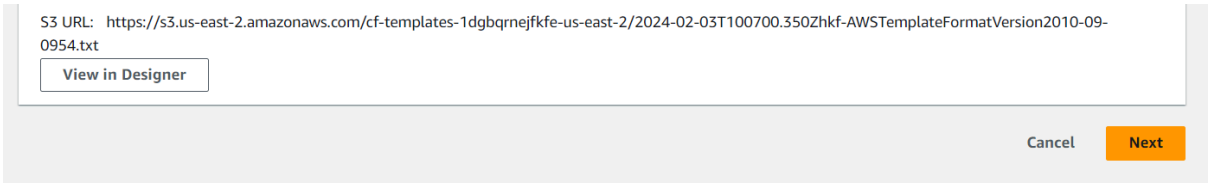
SEE THE PARAMETERS IN TEMPLATE1 IN YAML LANGUAGE.



TEMPLATE1 OUTPUT DETAILS IN YAML FORMAT.

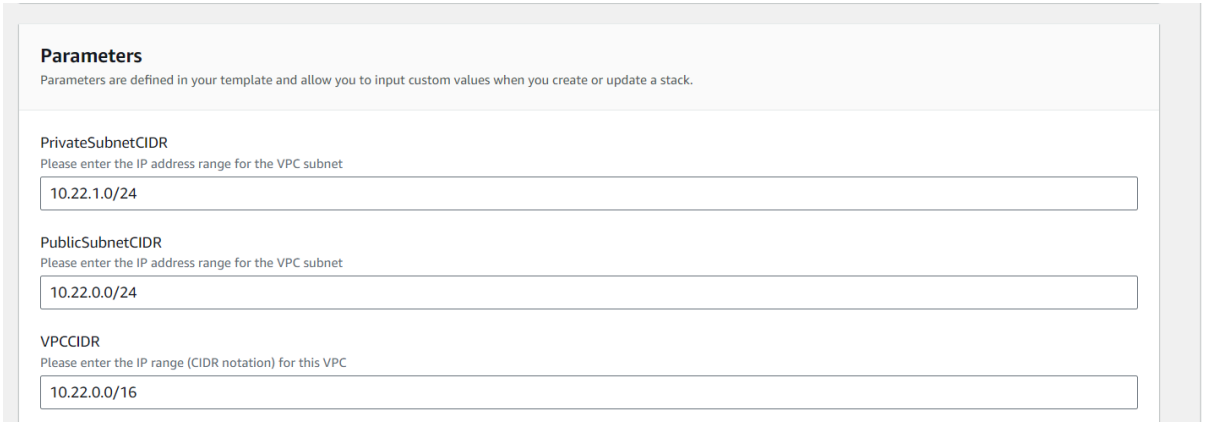


SEE THE S3 URL LINK IN CLOUDFORMATION AND CLICK TO THE NEXT…



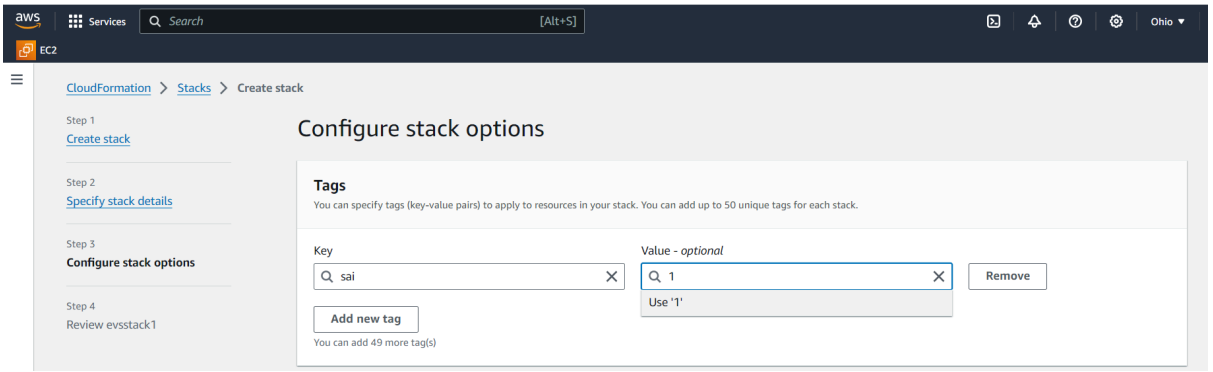
SEE THE SPECIFY STACK DETAILS NAME HOSPITAL-PROJECT-CLOUDFORMATION-VPC-STACK…

PARAMETERS IN CLOUDFORMATION PRIVATE SUBNET CIDR, PUBLIC SUBNET CIDR..

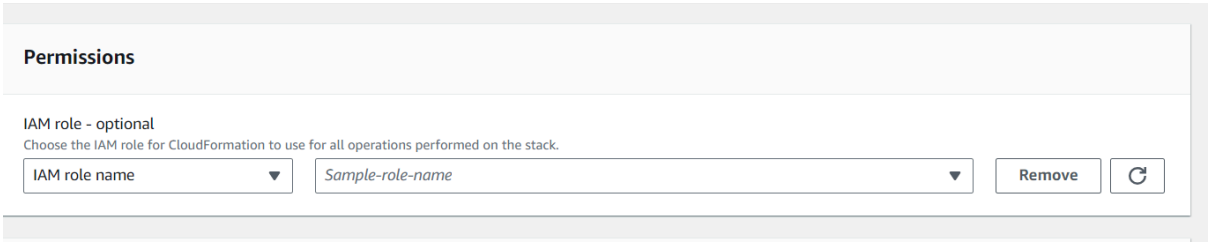


CLICK TO NEXT OPEN THE CONFIGURE STACK DETAILS..

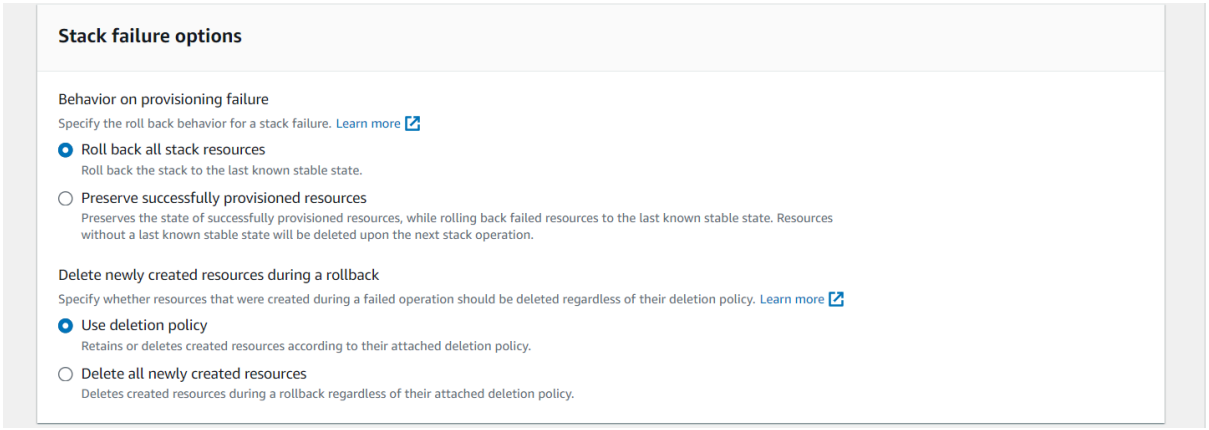
CONFIGURE STACK OPTIONS IN CLOUDFORMATION..



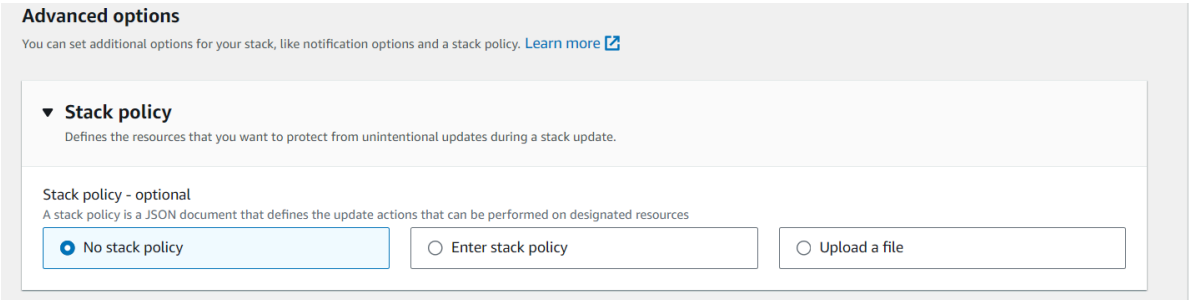
GIVE THE PERMISSIONS IAM ROLE IN OPTIONAL...



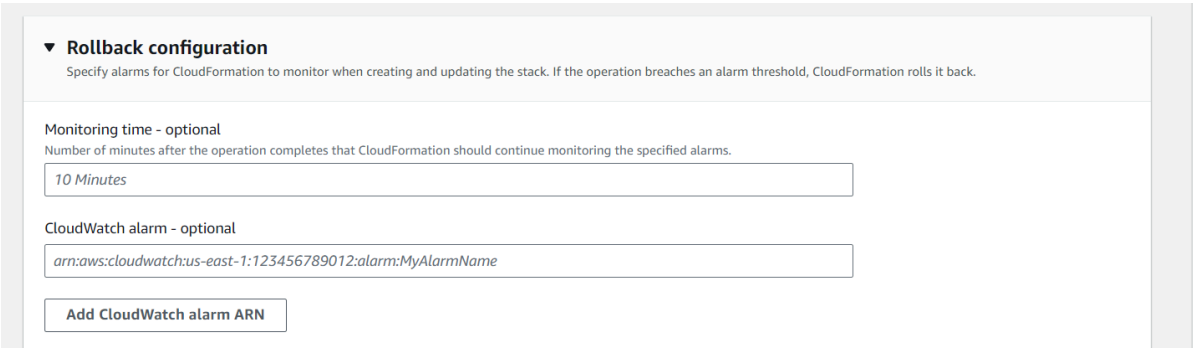
STACK FAILURE OPTIONS.



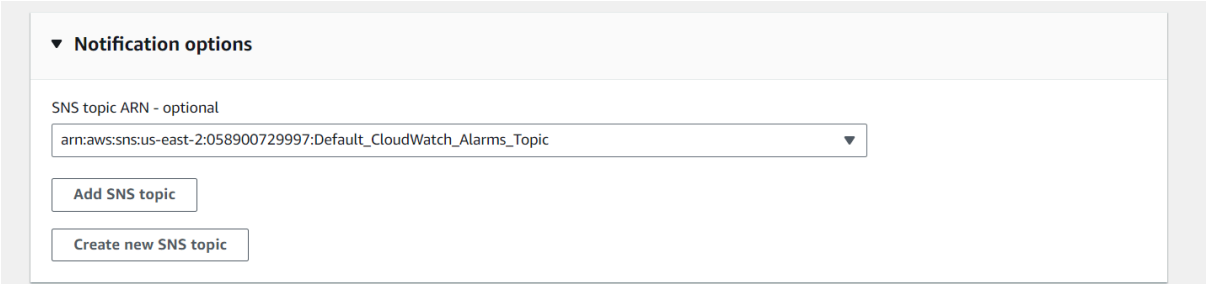
ADVANCED STACK POLICY OPTIONS..



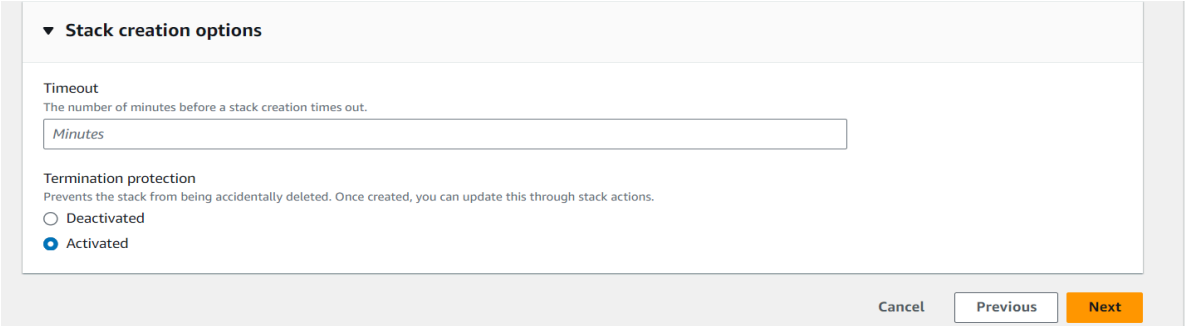
STACK ROLLBACK CONFIGURATION CLOUDFORMATION..



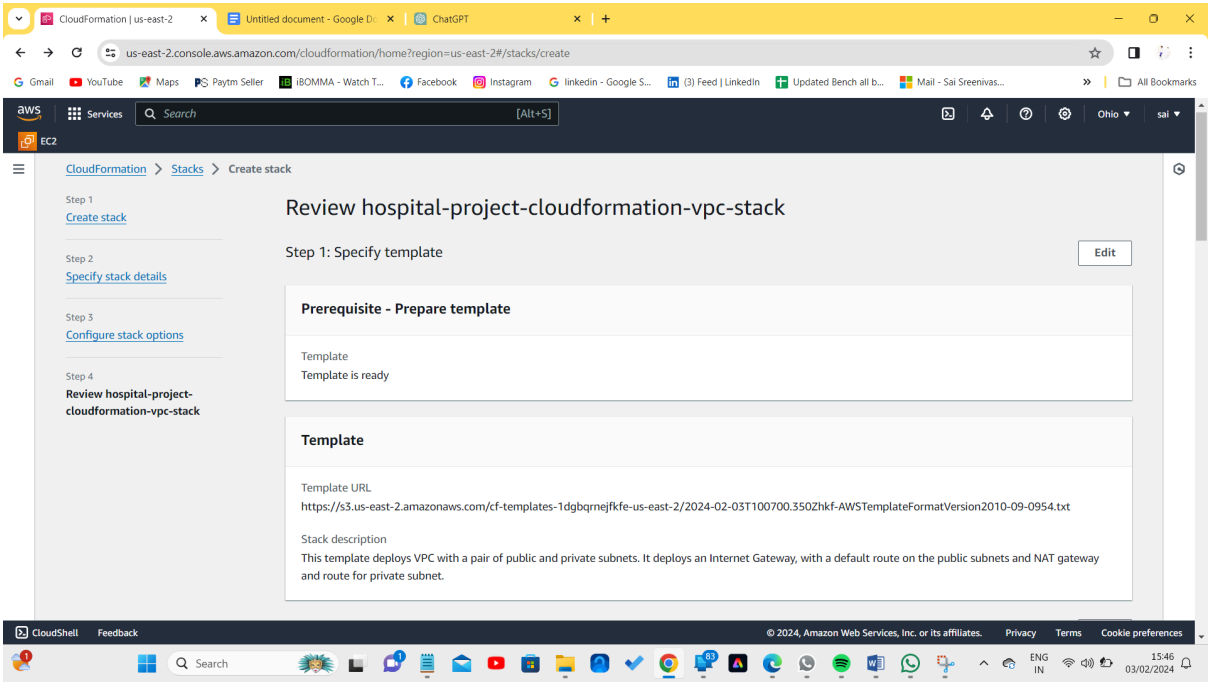
ALERT THE NOTIFICATION OPTIONS IN SNS..



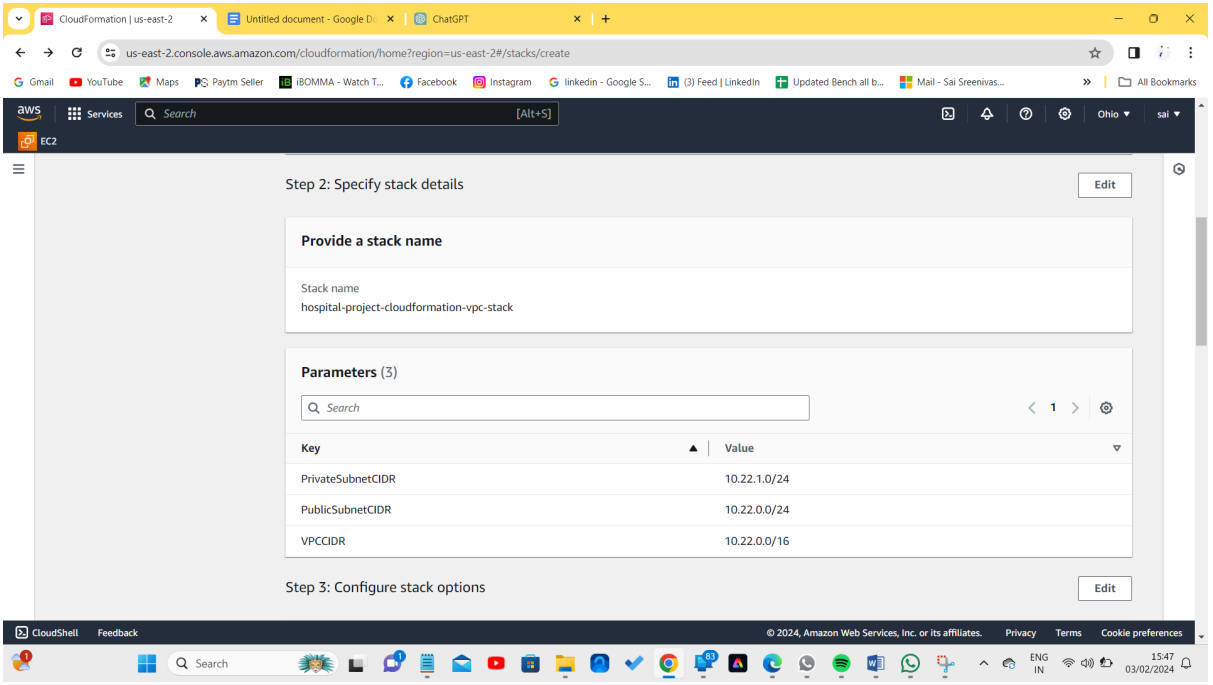
FINALLY ACTIVATED THE STACK CREATION OPTIONS AND CLICK THE NEXT OPTION.



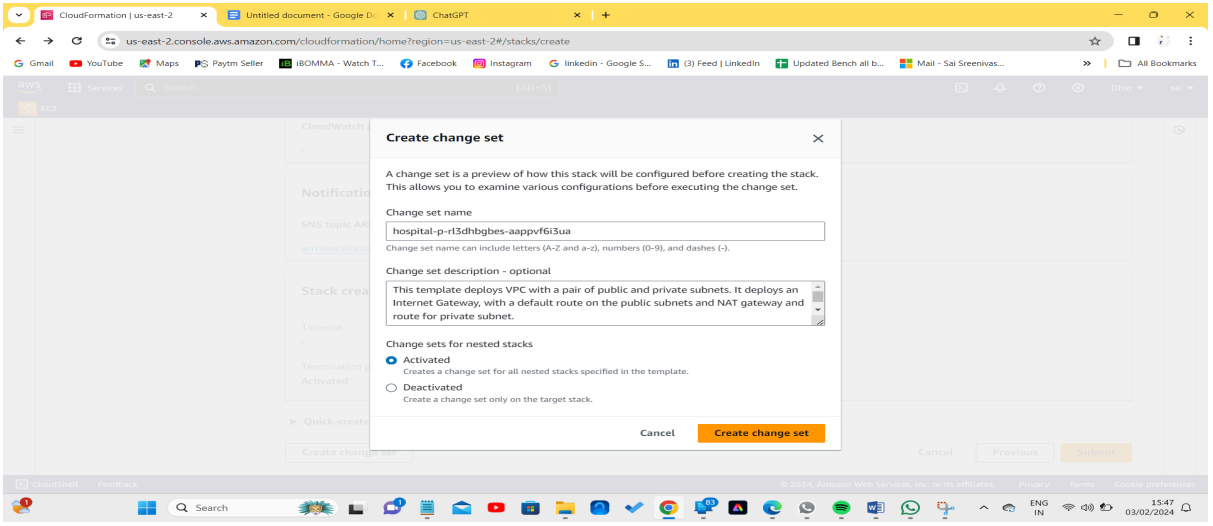
REVIEW HOSPITAL-PROJECT-CLOUDFORMATION-VPC-STACK DETAILS..



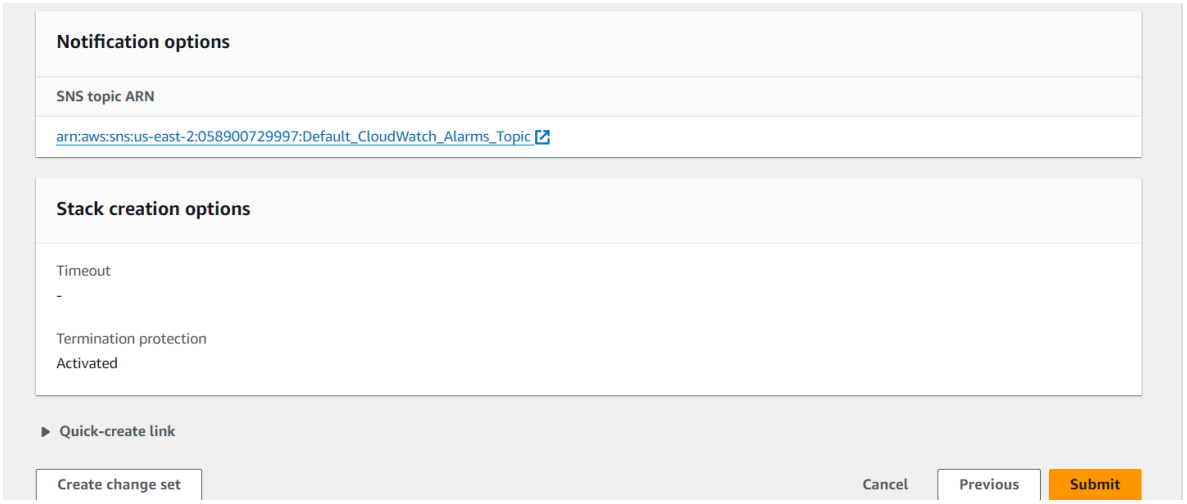
PROVIDE A STACK NAME..AND PARAMETERS..



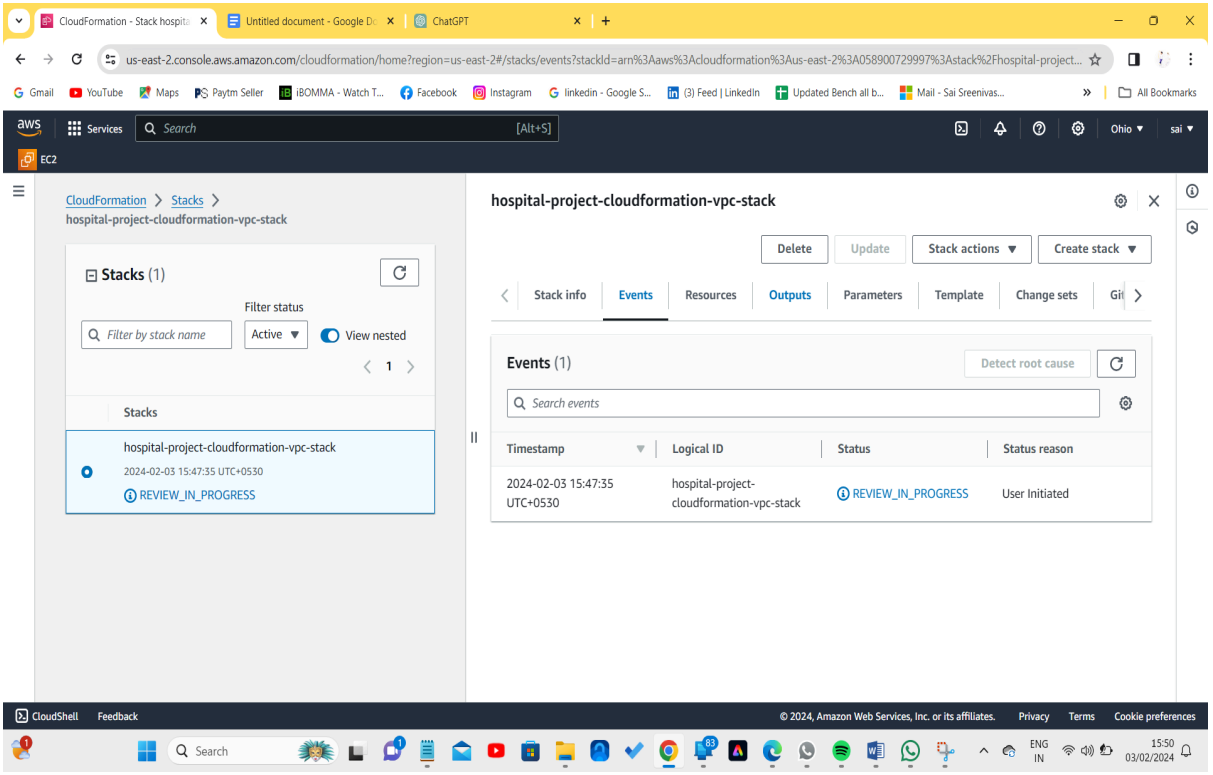
CLICK TO CREATE THE CHANGE SET…



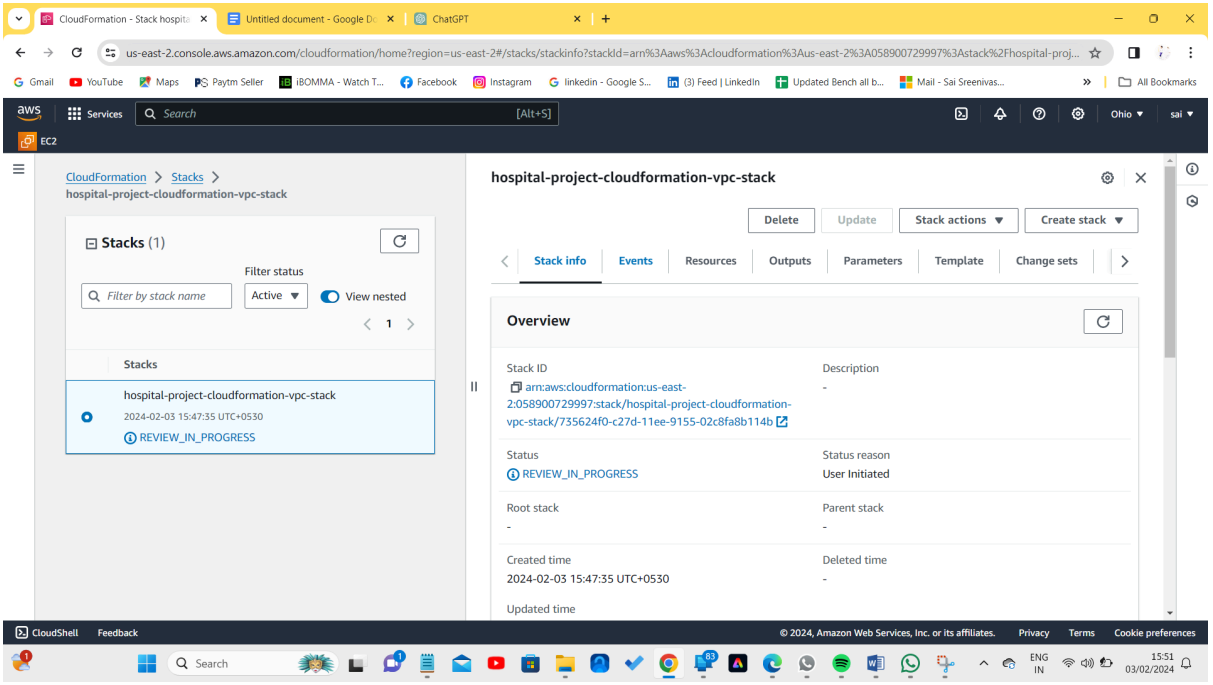
NOTIFICATION OPTIONS SNS TOPIC AND CREATION OPTION DETAILS..SUBMIT IT.



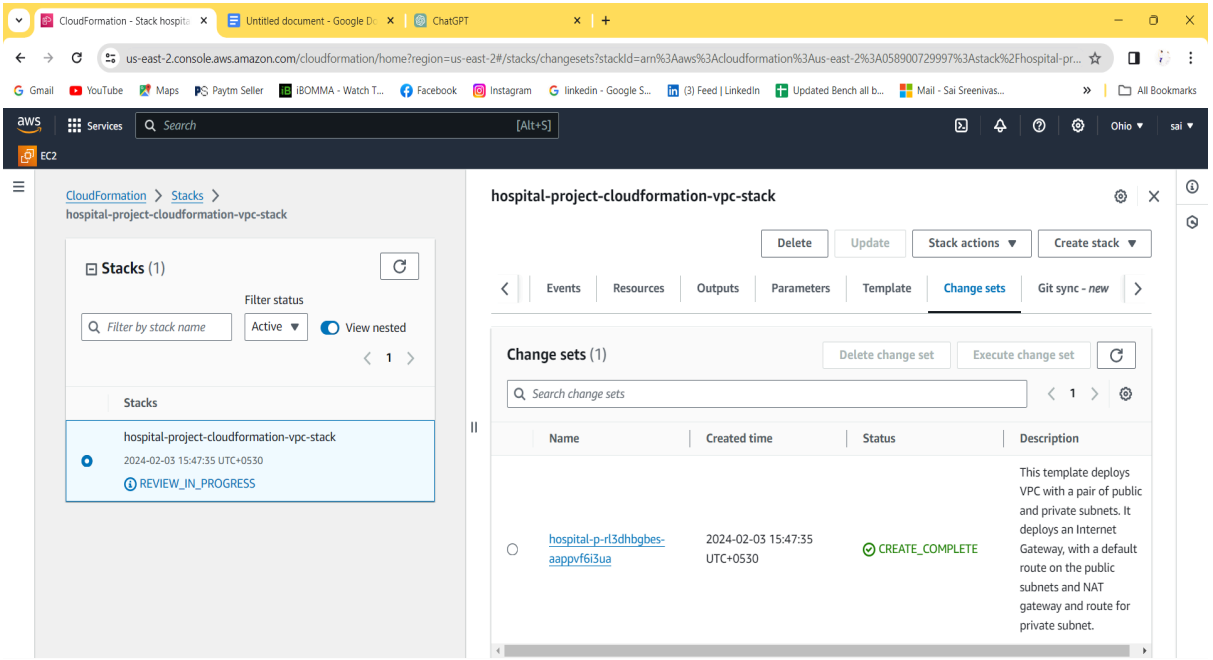
SUCCESSFULLY CREATED THE HOSPITAL PROJECT CLOUDFORMATION VPC STACK..



SEE THE STACK INFORMATION DETAILS LIKE STACK I'D,STATUS..



CHANGE SET CREATE SUCCESSFULL..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Gmail YouTube Maps Paytm Seller iBOMMA - Watch T... Facebook Instagram linkedin - Google S... (3) Feed | LinkedIn Updated Bench all b... Mail - Sai Sreenivas... All Bookmarks
aws Services Search [Alt+S] Ohio sai
EC2
CloudFormation > Stacks >
hospital-project-cloudformation-vpc-stack
Stacks (1)
Filter by stack name
Filter status
Active
View nested
1
Stacks
hospital-project-cloudformation-vpc-stack
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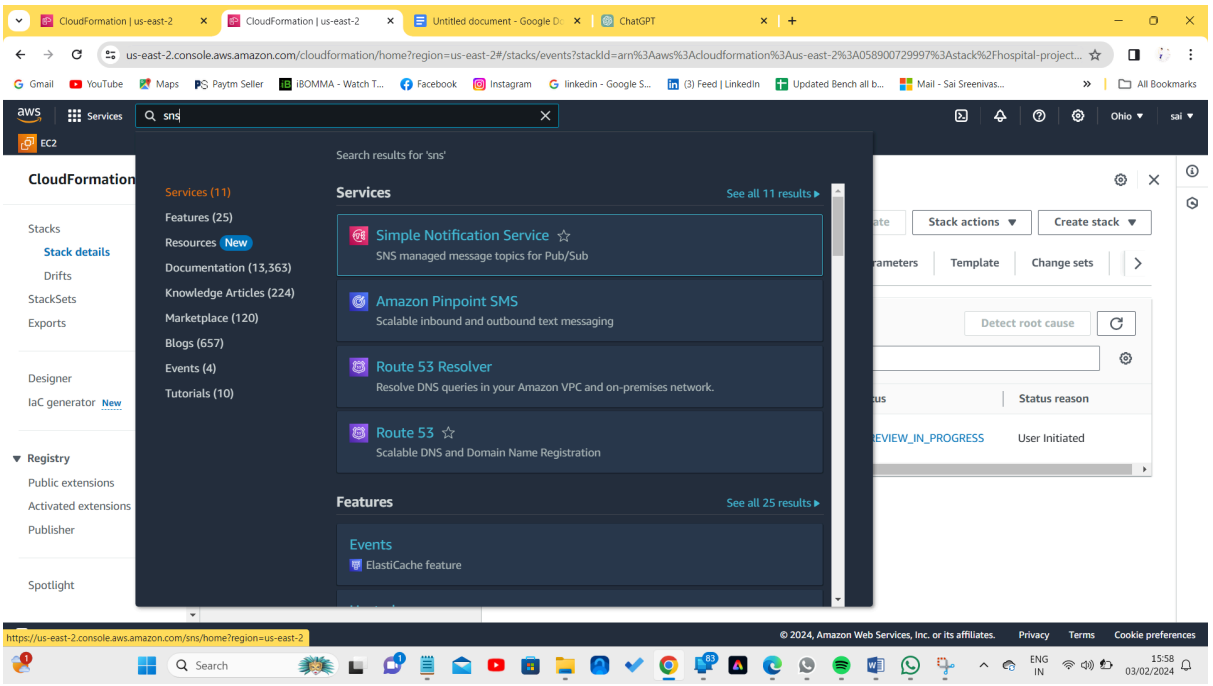
REVIEW_IN_PROGRESS
hospital-project-cloudformation-vpc-stack
Delete
Update
Stack actions
Create stack
Events
Resources
Outputs
Parameters
Template
Change sets
Git sync - new
Change sets (1)
Delete change set
Execute change set
Search change sets
1
Name
Created time
Status
Description
hospital-p-rl3dhbgbes-aappvf6i3ua
2024-02-03 15:47:35 UTC+0530
CREATE_COMPLETE
This template deploys VPC with a pair of public and private subnets. It deploys an Internet Gateway, with a default route on the public subnets and NAT gateway and route for private subnet.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Gmail YouTube Maps Paytm Seller iBOMMA - Watch T... Facebook Instagram linkedin - Google S... (3) Feed | LinkedIn Updated Bench all b... Mail - Sai Sreenivas... All Bookmarks
aws Services sns Ohio sai
EC2
Search results for 'sns'
Services (11)
Features (25)
Resources New
Documentation (13,363)
Knowledge Articles (224)
Marketplace (120)
Blogs (657)
Events (4)
Tutorials (10)
Services
See all 11 results
Simple Notification Service
SNS managed message topics for Pub/Sub
Amazon Pinpoint SMS
Scalable inbound and outbound text messaging
Route 53 Resolver
Resolve DNS queries in your Amazon VPC and on-premises network.
Route 53
Scalable DNS and Domain Name Registration
Features
See all 25 results
Events
ElastiCache feature
CloudFormation
Stacks
Stack details
Drifts
StackSets
Exports
Designer
IaC generator New
Registry
Public extensions
Activated extensions
Publisher
Spotlight
Stack actions
Create stack
Template
Change sets
Detect root cause
Status reason
REVIEW_IN_PROGRESS
User Initiated
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© 2024, Amazon Web Services, Inc. or its affiliates.
Privacy
Terms
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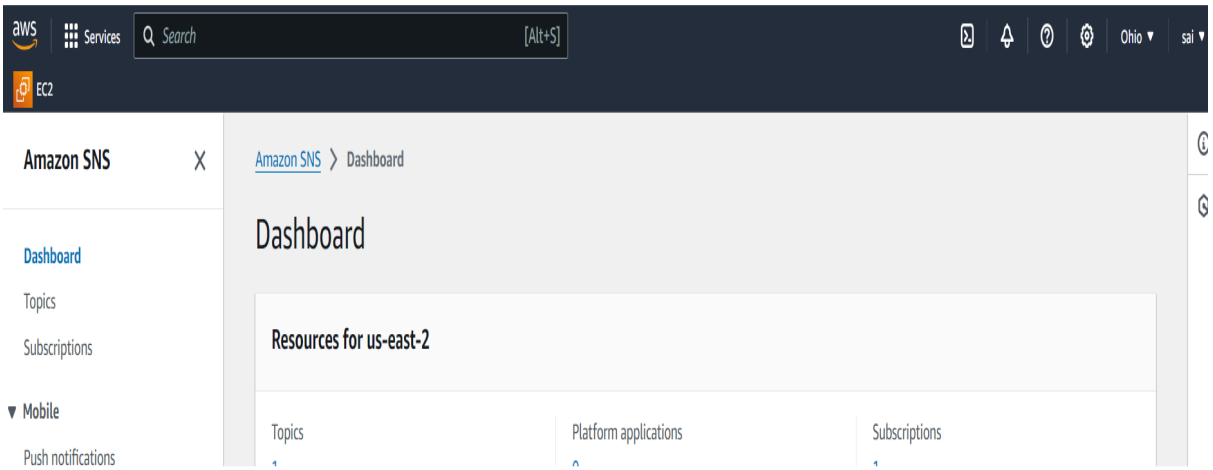
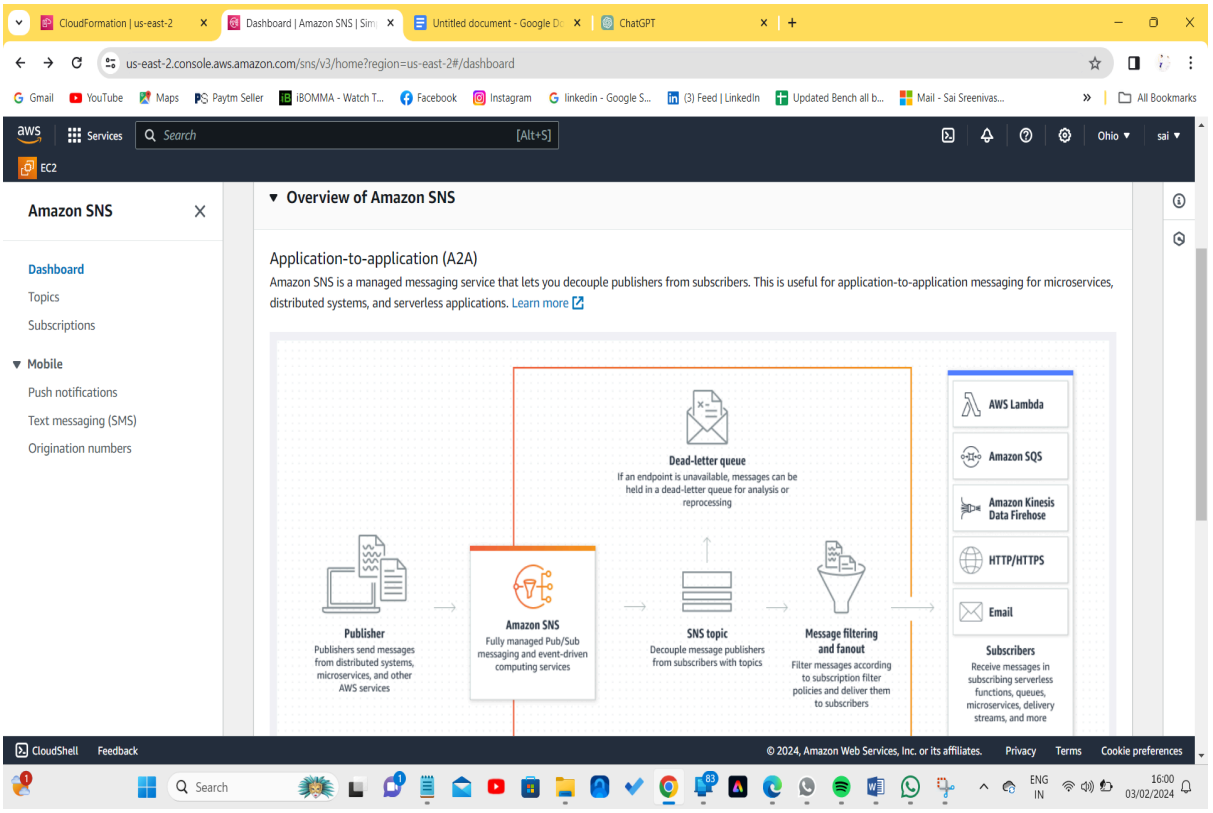
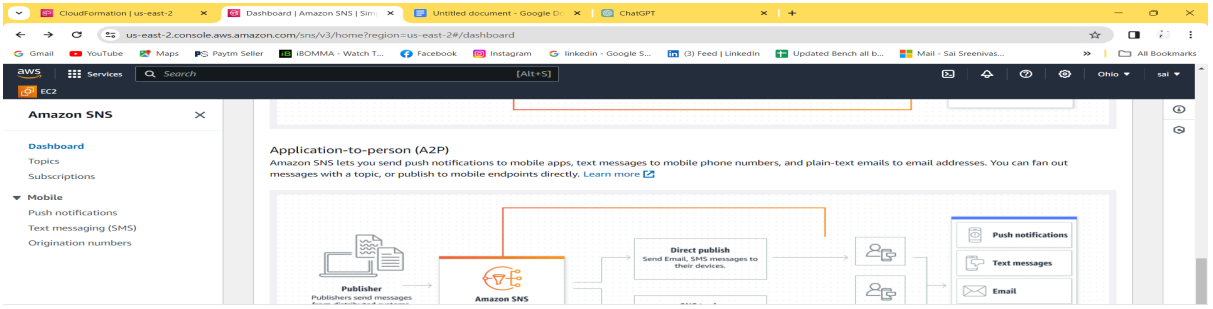
OPEN THE SNS DASHBOARD RESOURCE..

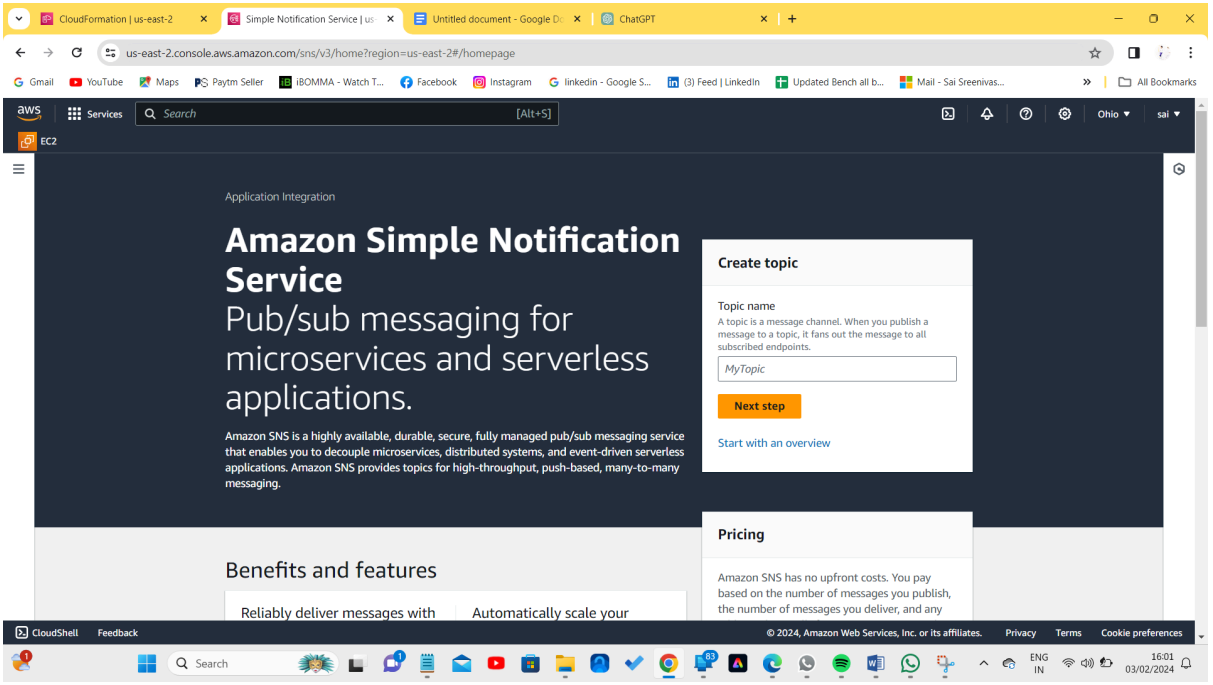


OVERVIEW OF AMAZON SNS TO THE APPLICATION TO APPLICATION..

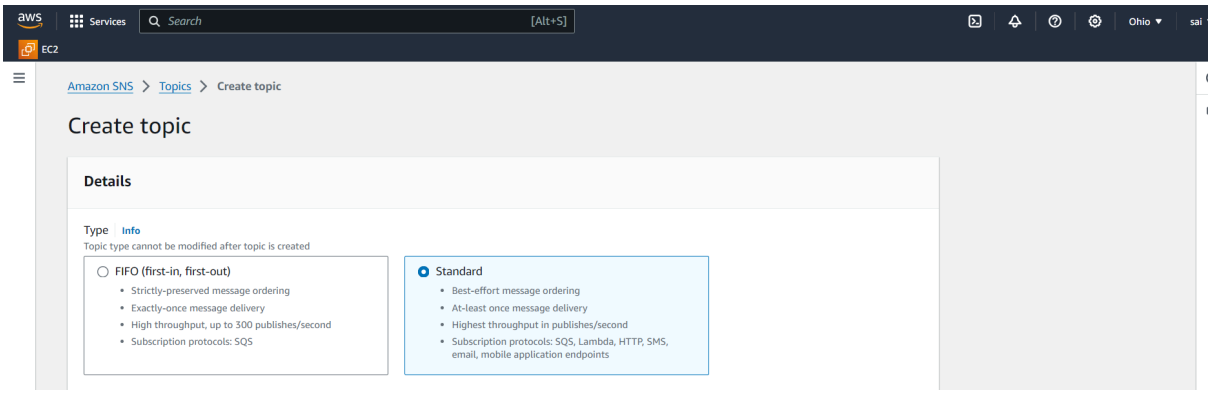


OVERVIEW THE APPLICATION TO PERSON IN AMAZON SNS.

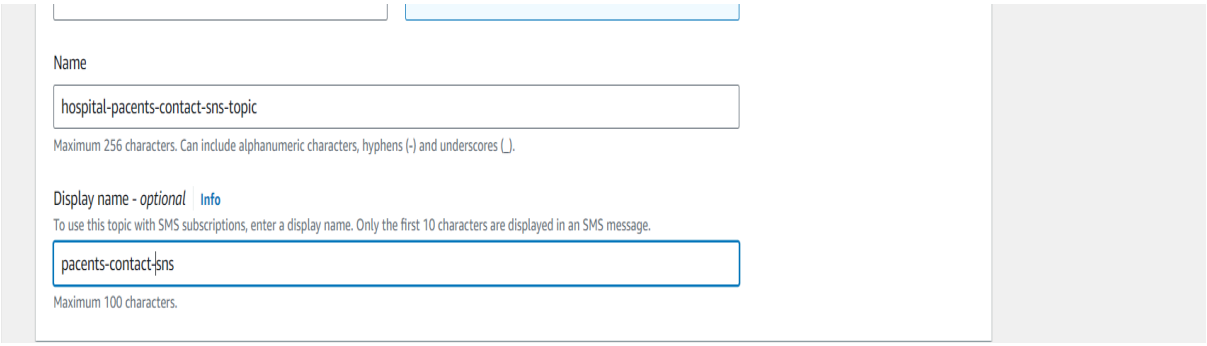




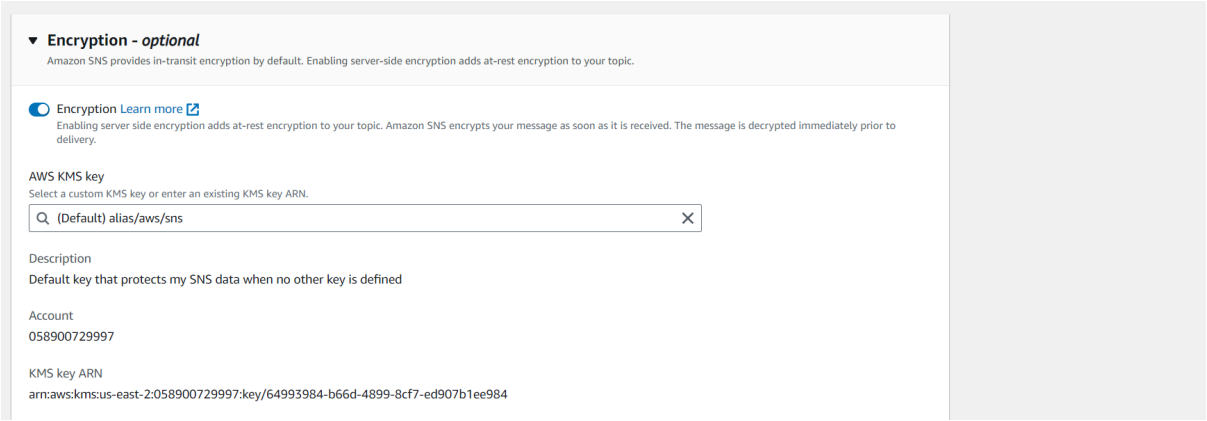
OPEN THE SNS TOPIC CLICK THE CREATE SNS OPTION DO IT..
CREATE TOPIC DETAILS SELECT THE STANDARD OPTION..



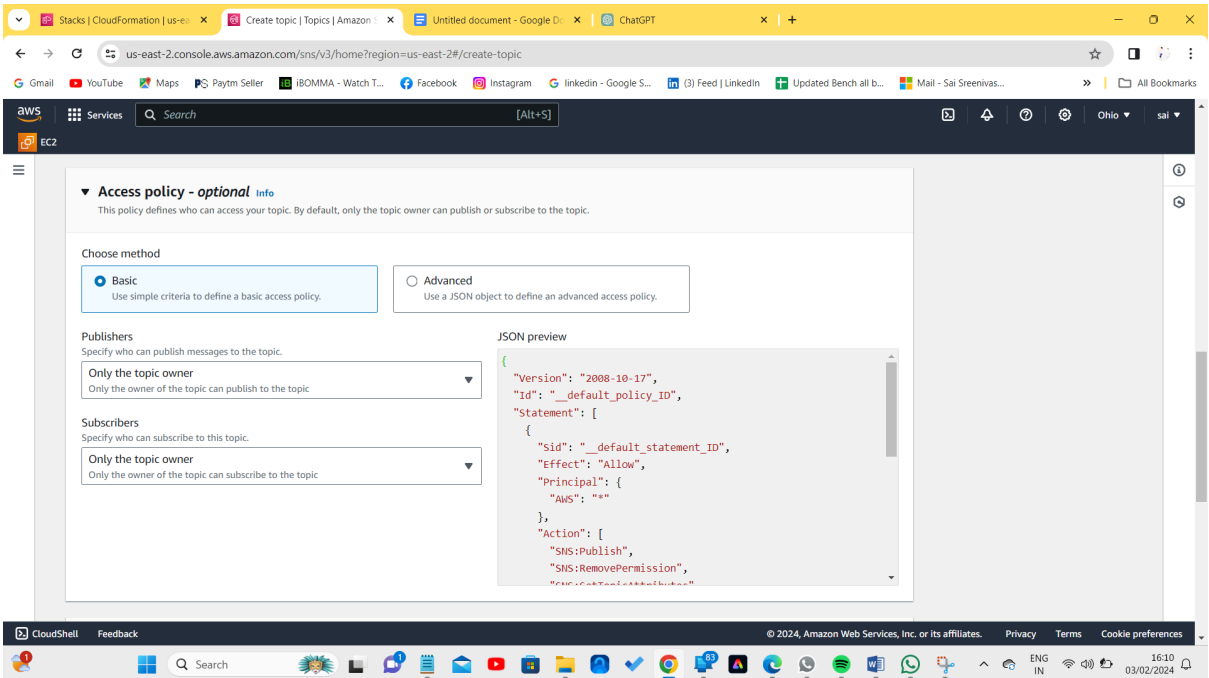
GIVE THE NAME OF THE SNS NEW TOPIC..



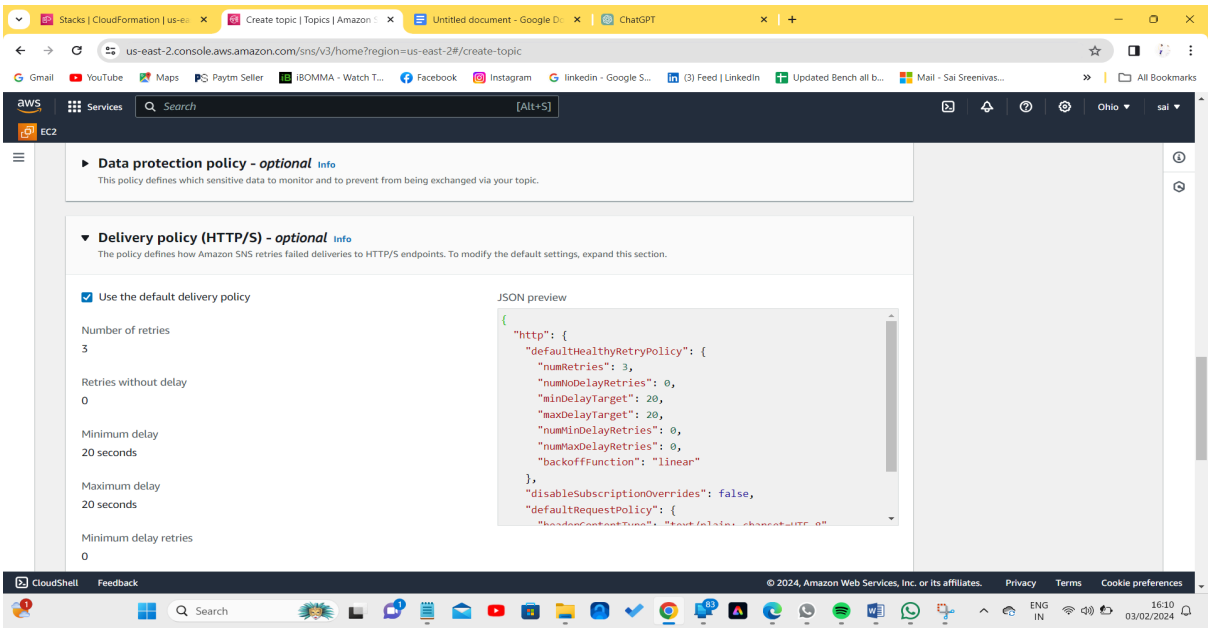
ENCRYPTION DETAILS OPTIONAL..



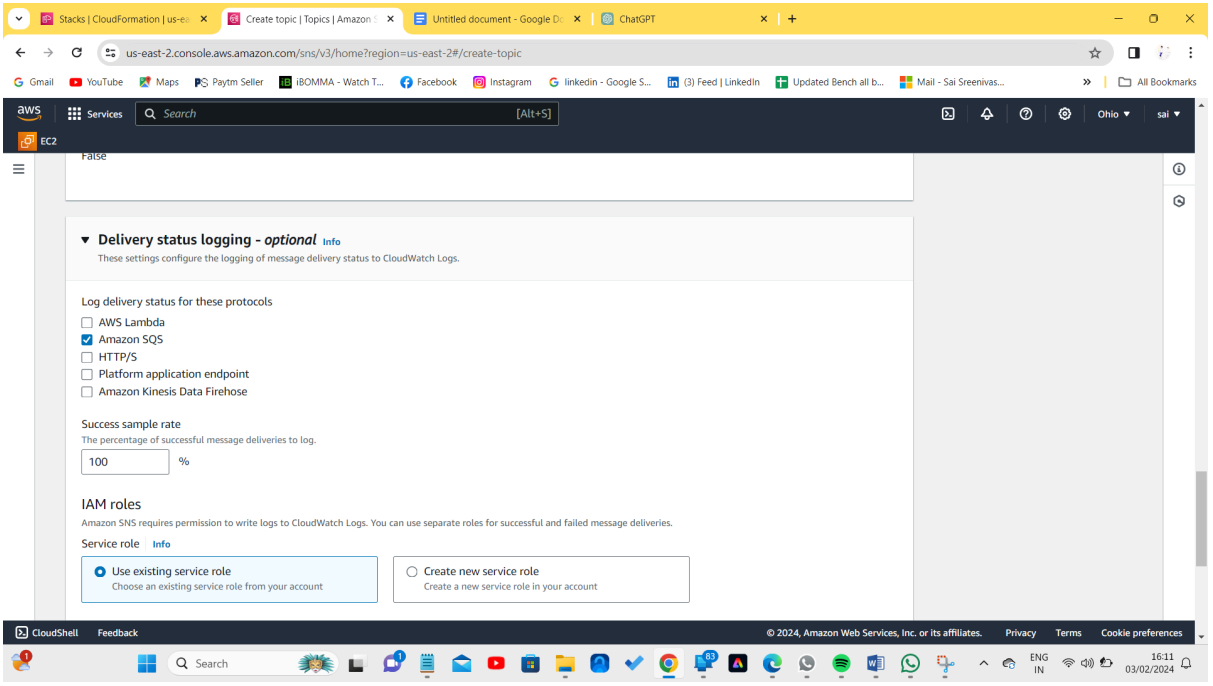
ACCESS POLICY OPTIONAL BASIC METHOD IN JSON PREVIEW IN STATEMENT..



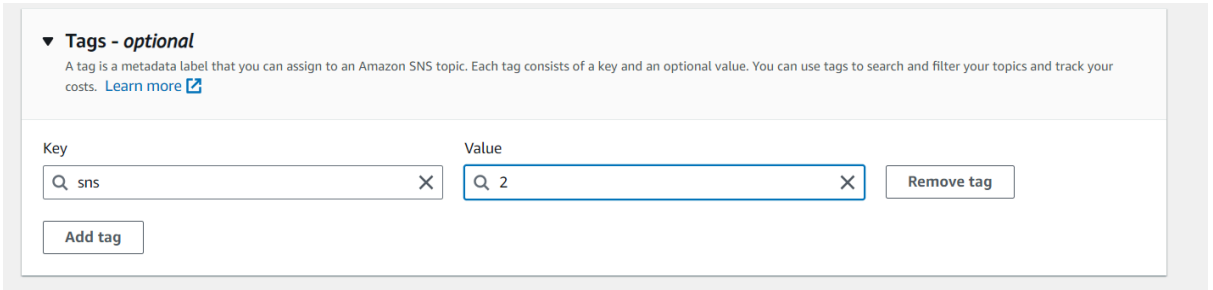
DATA PROTECTION POLICY AND ALSO DELIVERY POLICY IN JSON PREVIEW IN HTTP OPTIONAL..



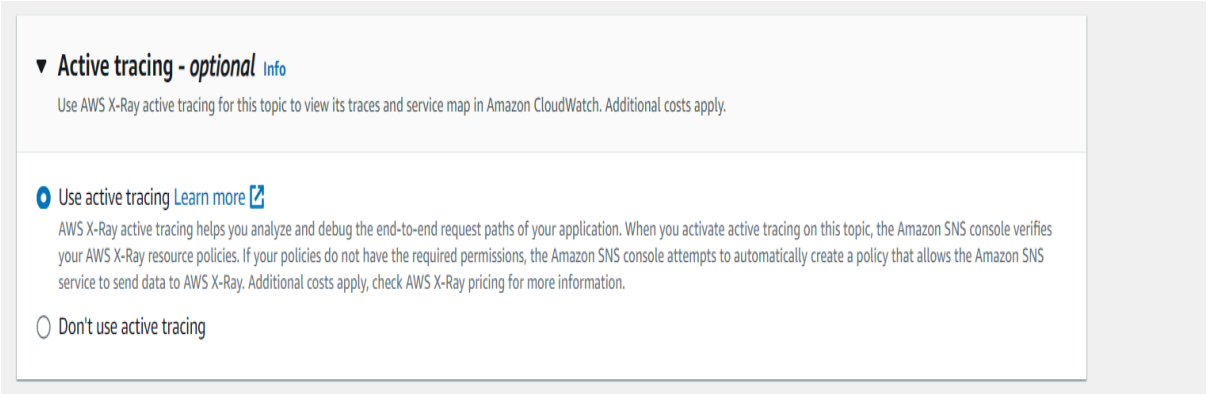
DELIVERY STATUS LOGGING OPTIONAL..



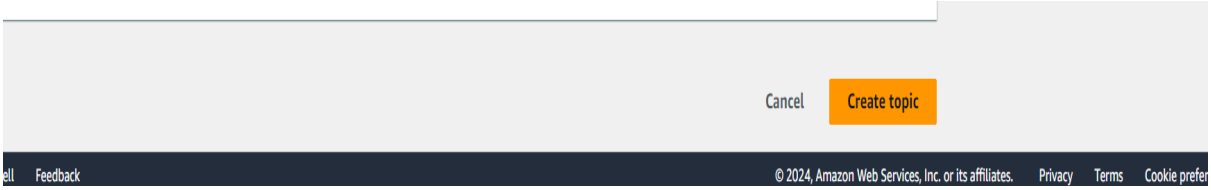
TAGS OPTIONAL IN SNS ..



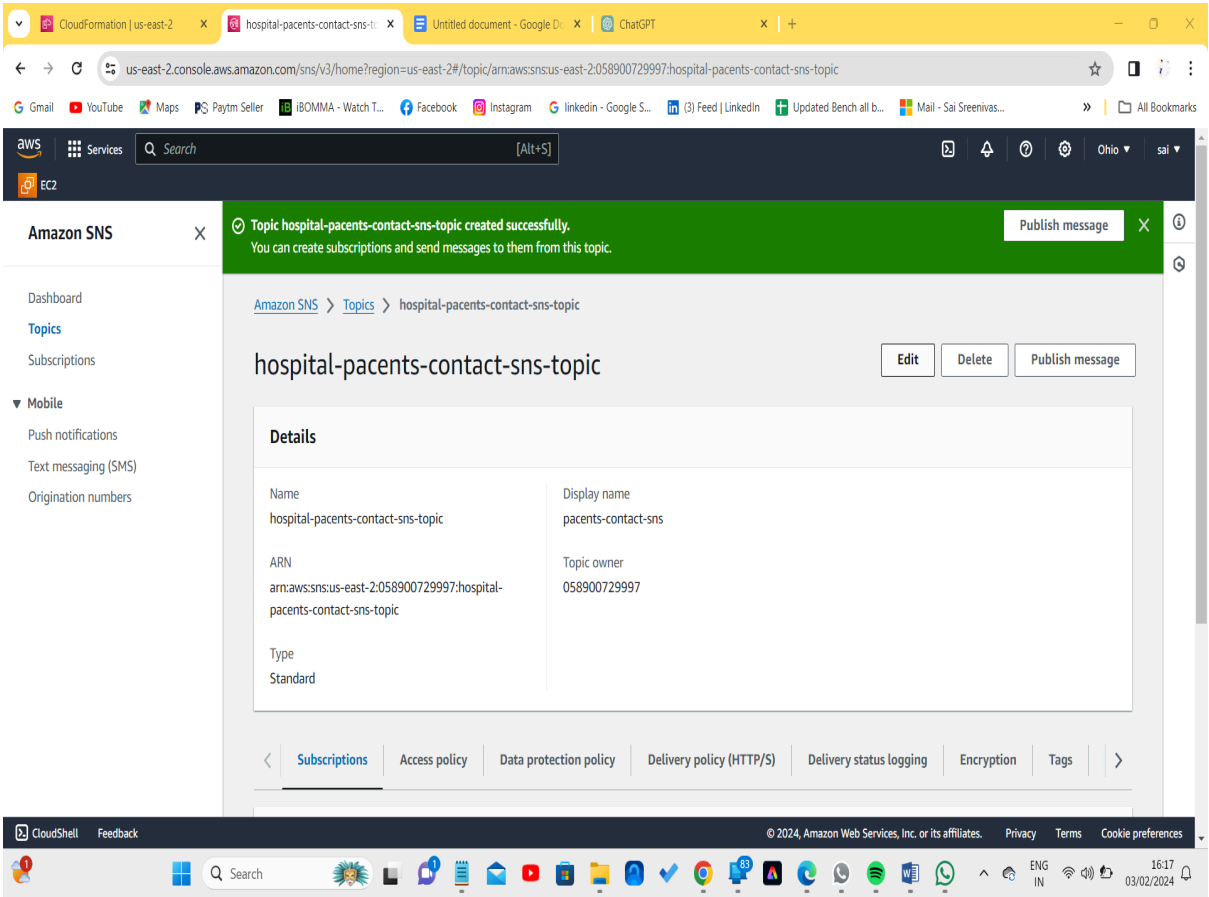
ACTIVE TRACING OF THE SNS TOPIC..



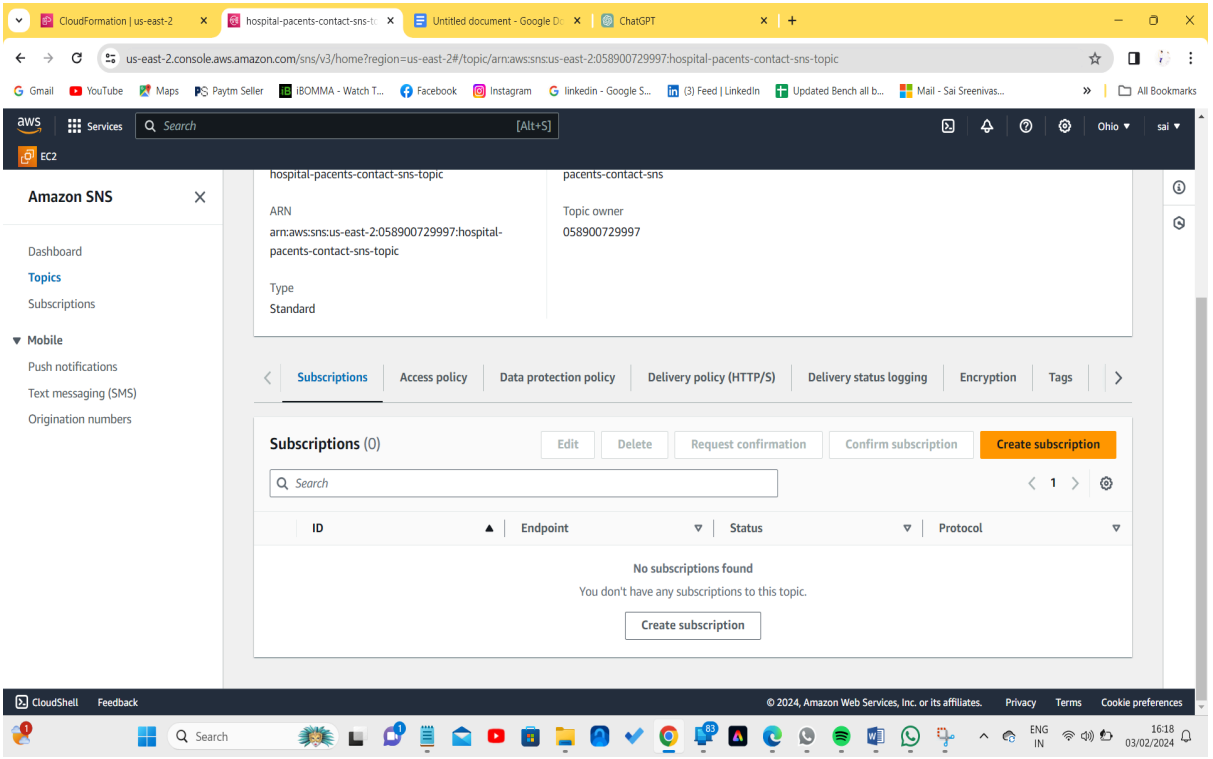
CLICK THE CREATE TOPIC OPTION DO IT..



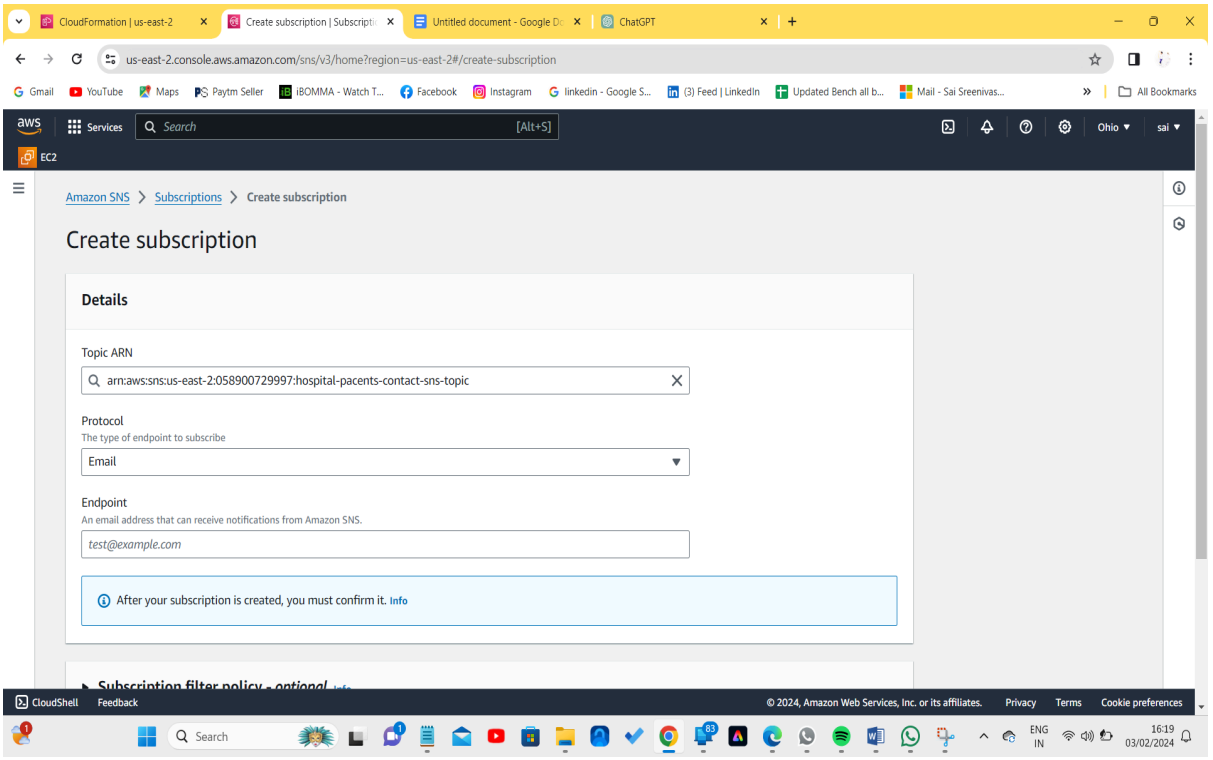
SUCCESSFULLY CREATE THE HOSPITAL CONTACT SNS TOPIC…DETAILS



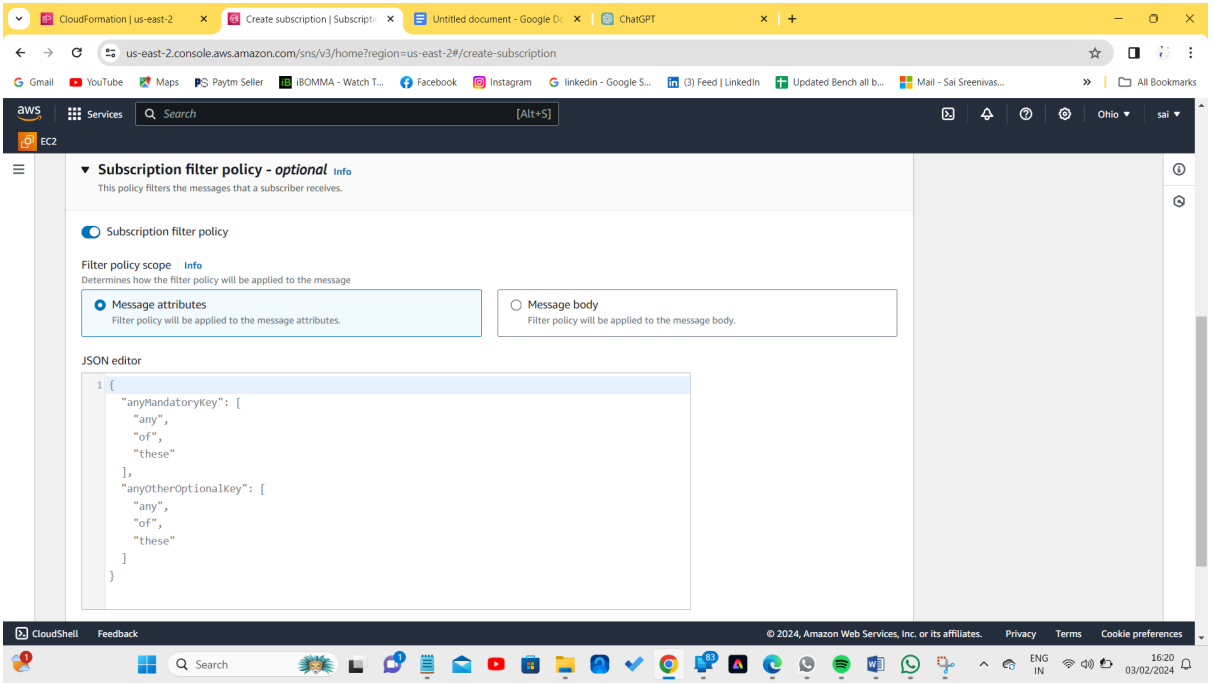
CREATED TOPIC DETAILS GO TO THE CREATE SUBSCRIPTION IN SNS…



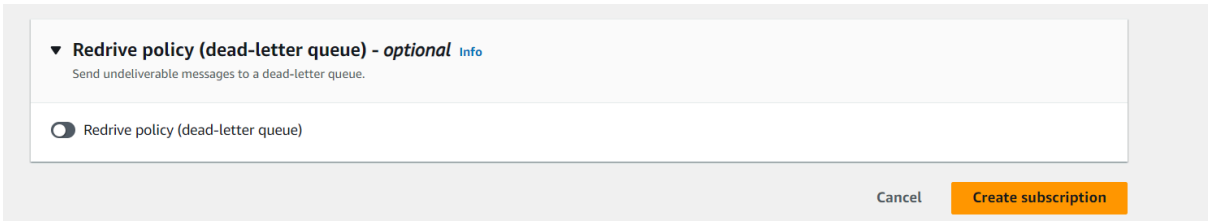
OPEN THE CREATE SUBSCRIPTION TOPIC DETAILS…



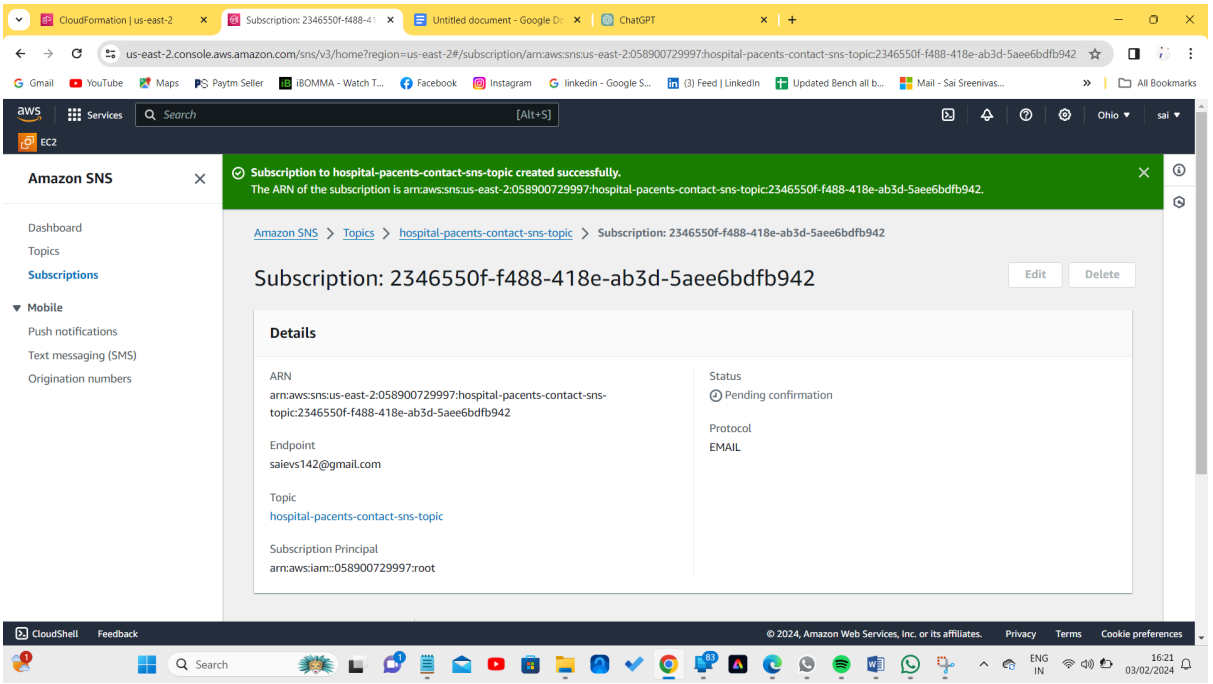
SUBSCRIPTION FILTER POLICY OPTIONAL...



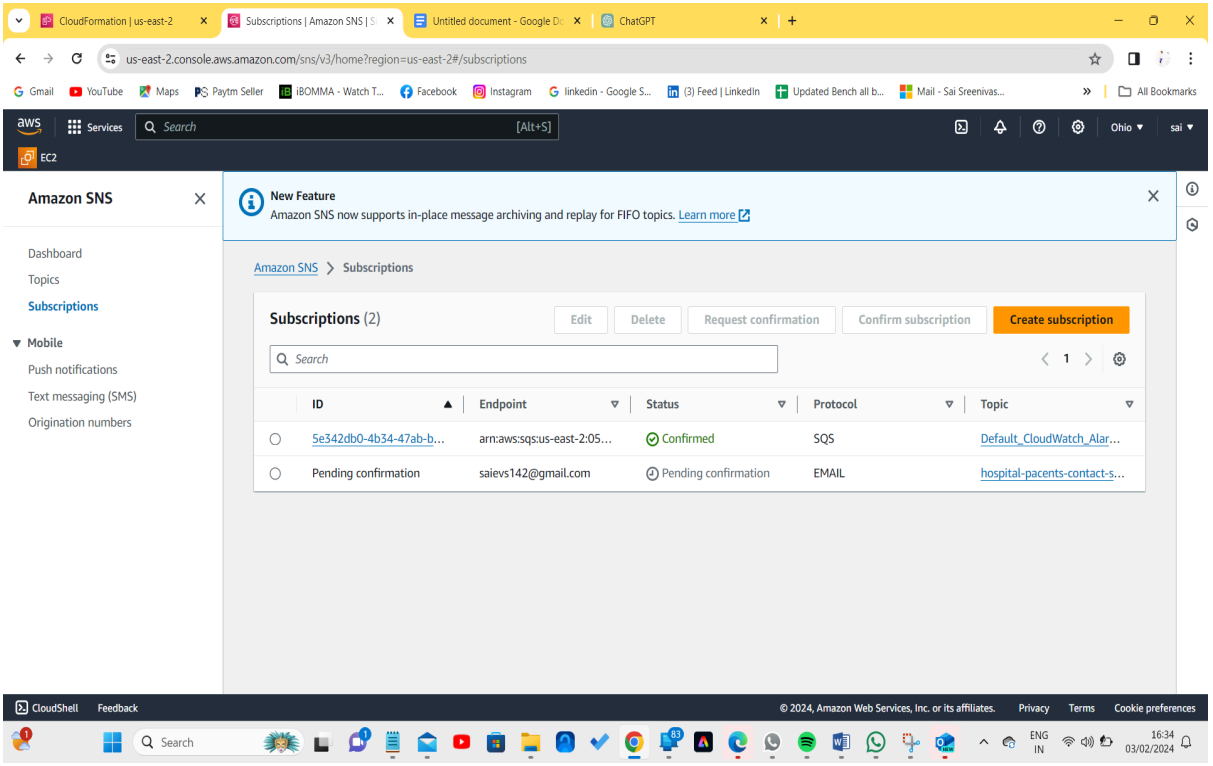
REDRIVE POLICY DEAD LETTER QUEUE OPTIONAL CLICK IT..



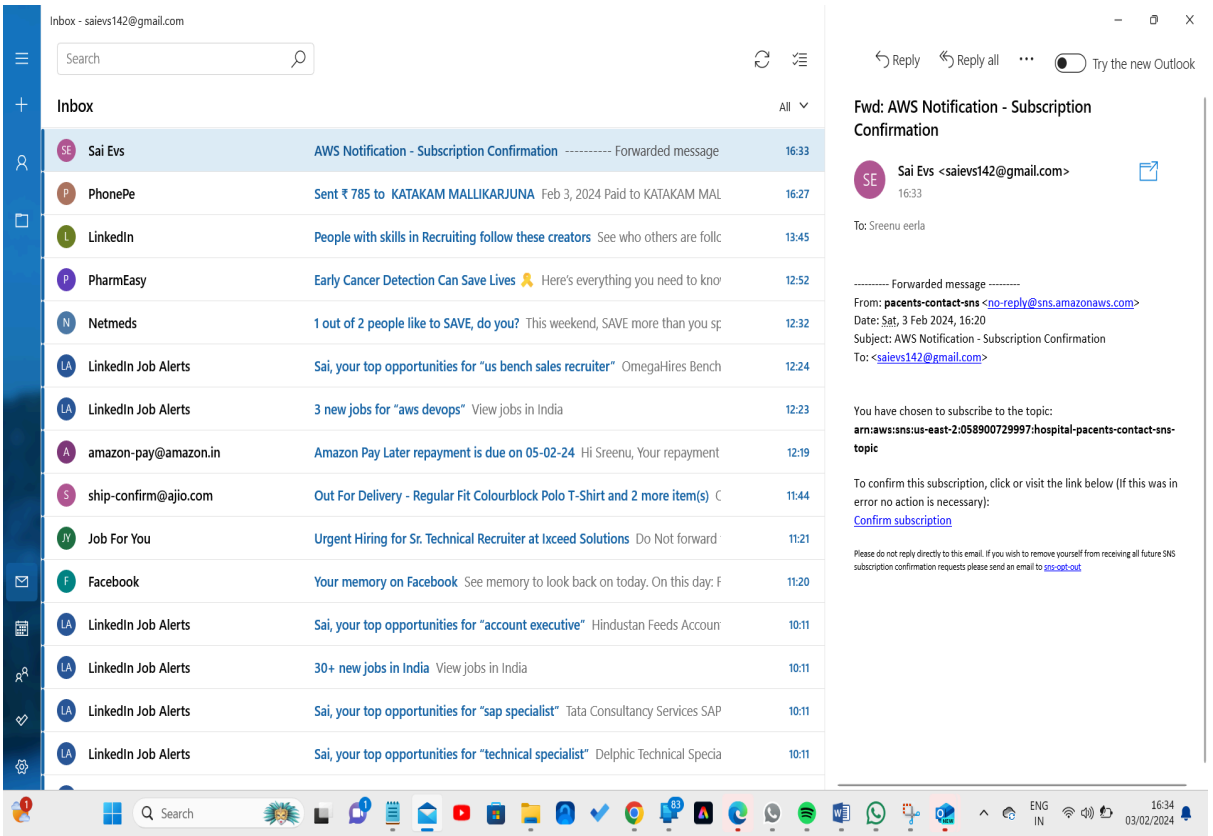
SUCCESSFULLY CREATED SUBSCRIPTION..



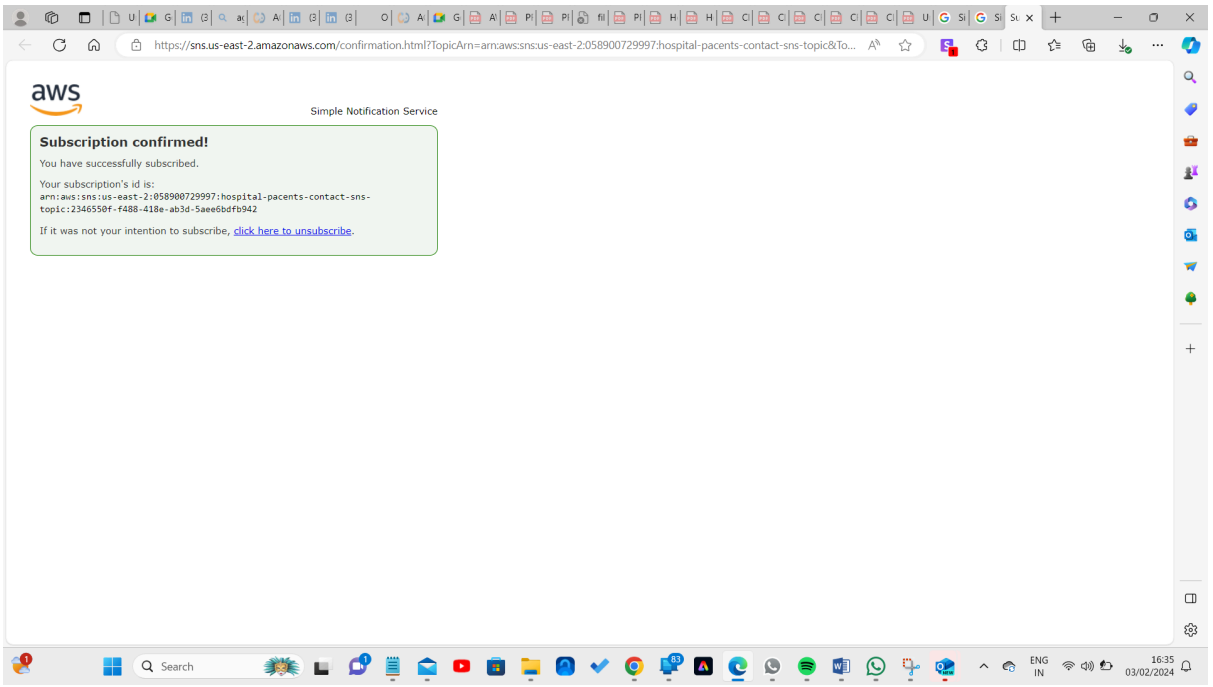
SEE THE CREATED SUBSCRIPTION STATUS IN SNS..



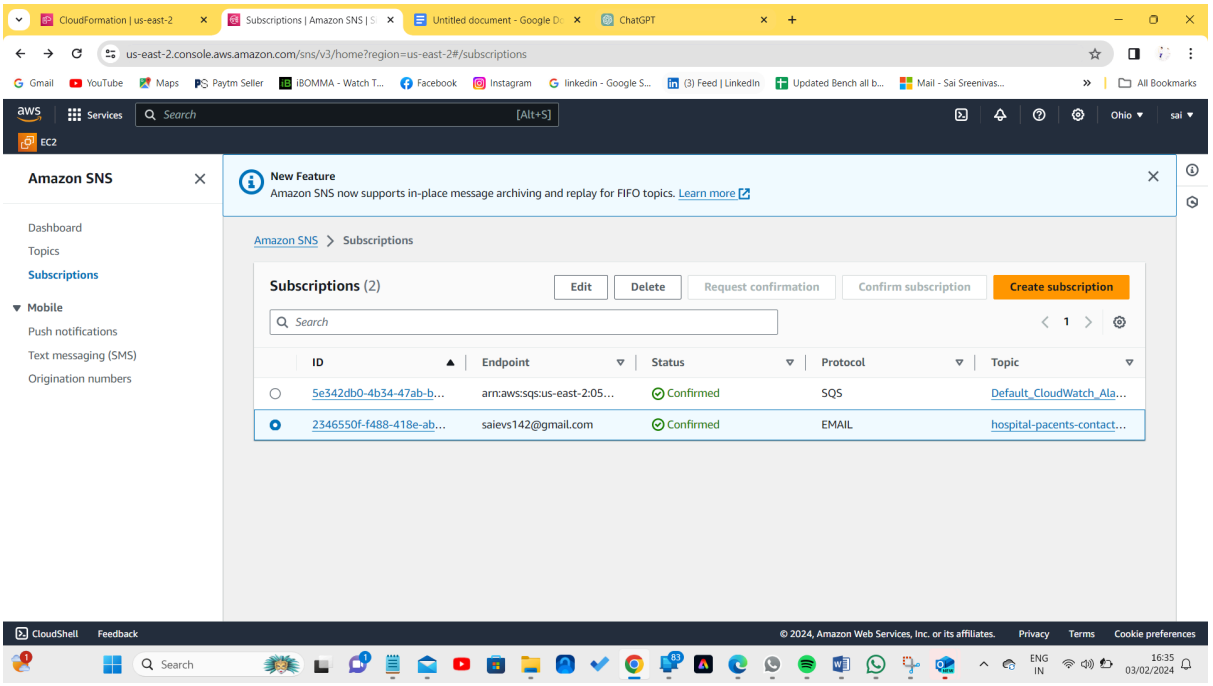
SEE THE EMAIL AWS NOTIFICATION DETAILS...



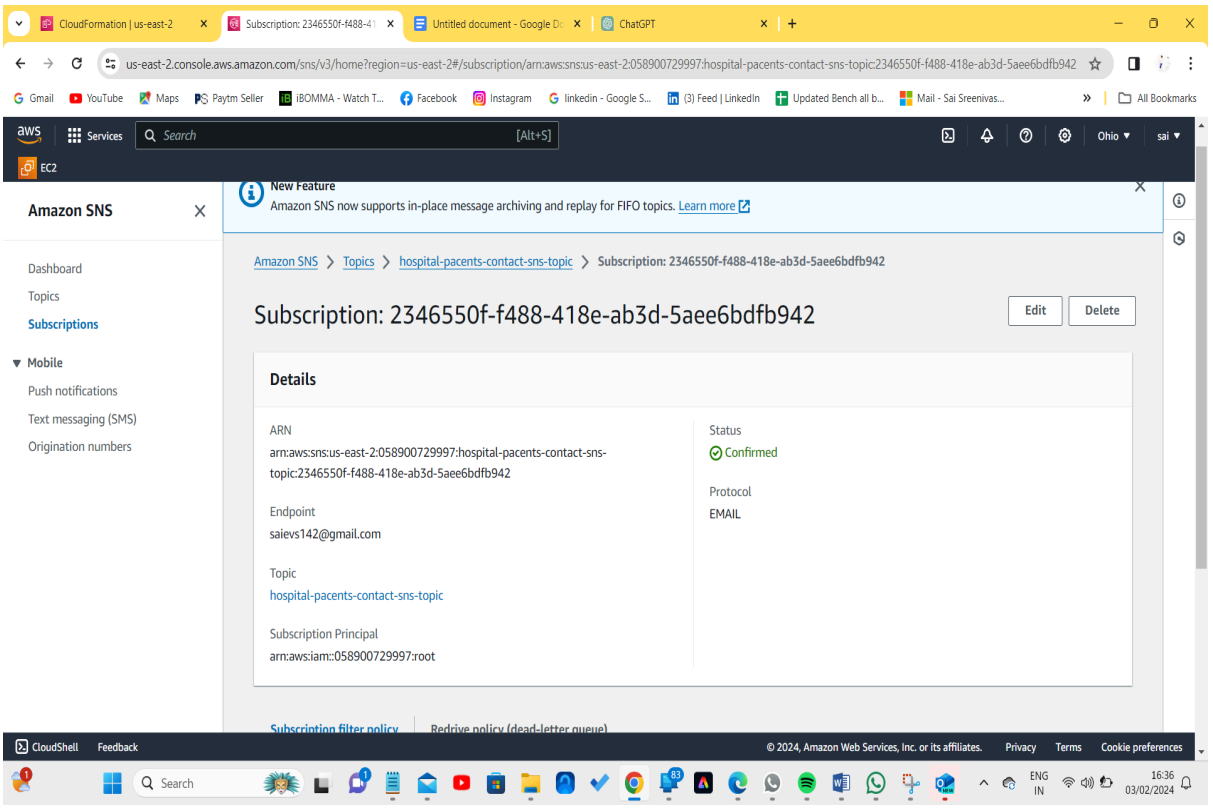
CLICK THE CONFIRM THE SUBSCRIPTION …



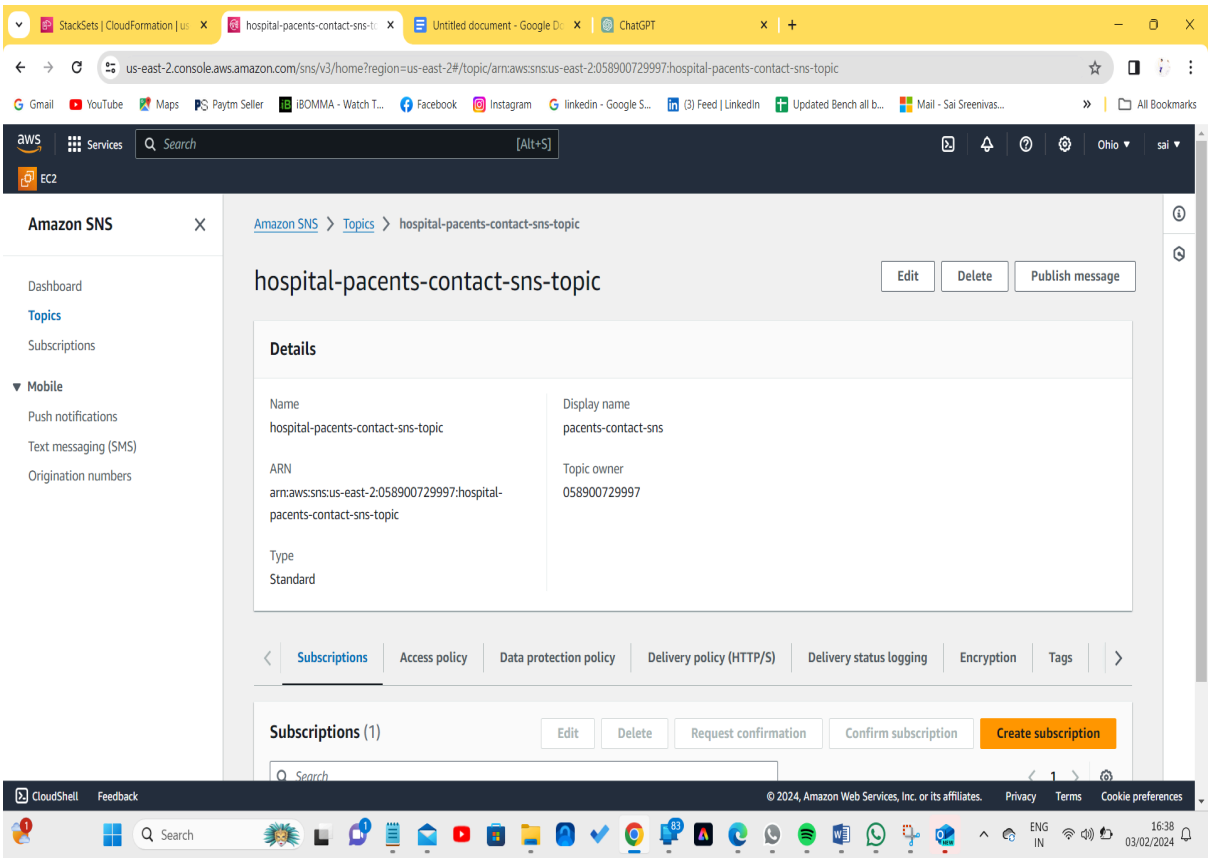
NOW SEE THE CONFIRMED SUBSCRIPTION..



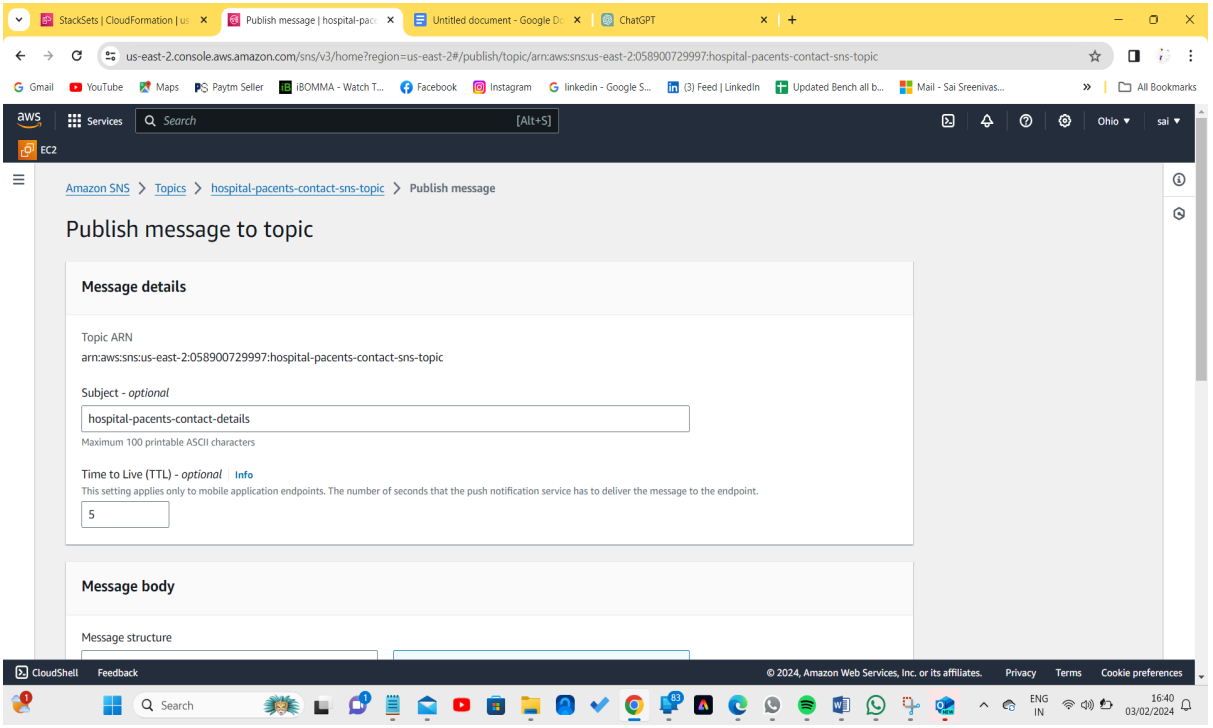
SEE THE SUBSCRIPTION DETAILS…



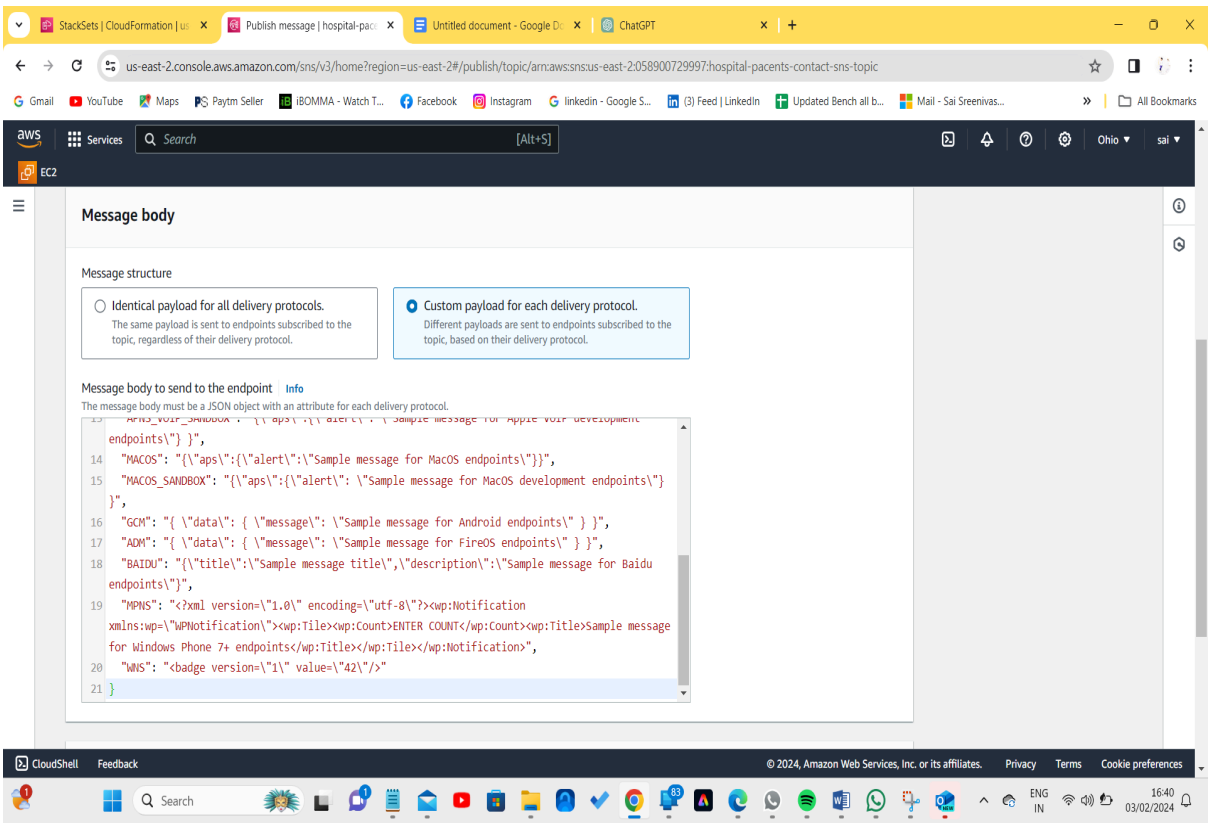
FINALLY SEE THE SNS TOPIC DETAILS…



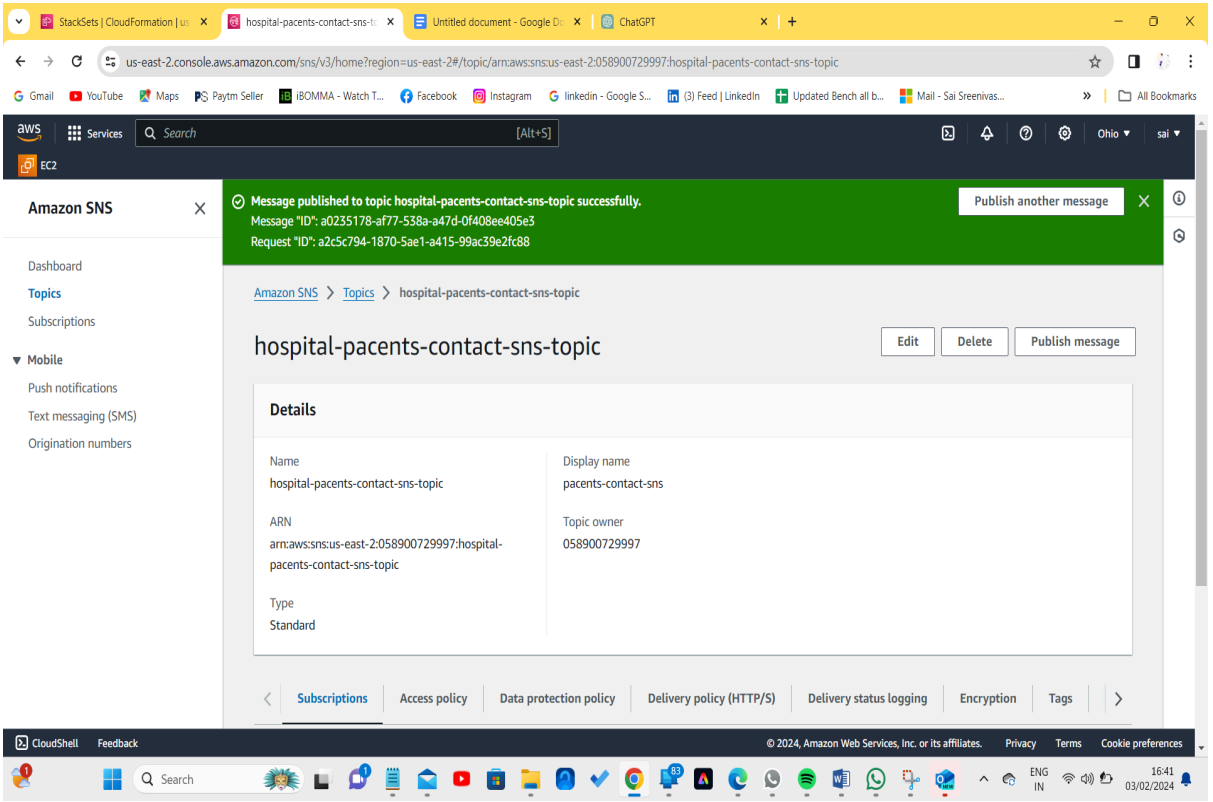
CLICK TO PUBLISH THE MESSAGE TO TOPIC..



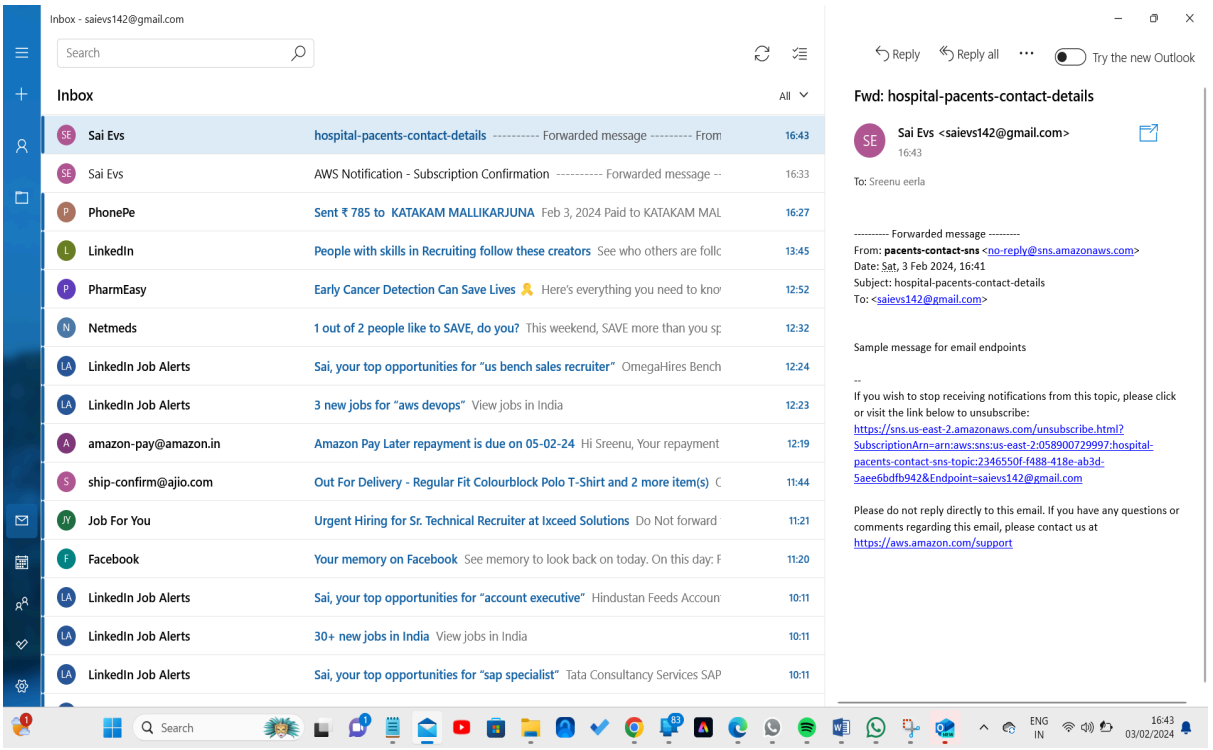
MESSAGE BODY IN YAML FORMAT..



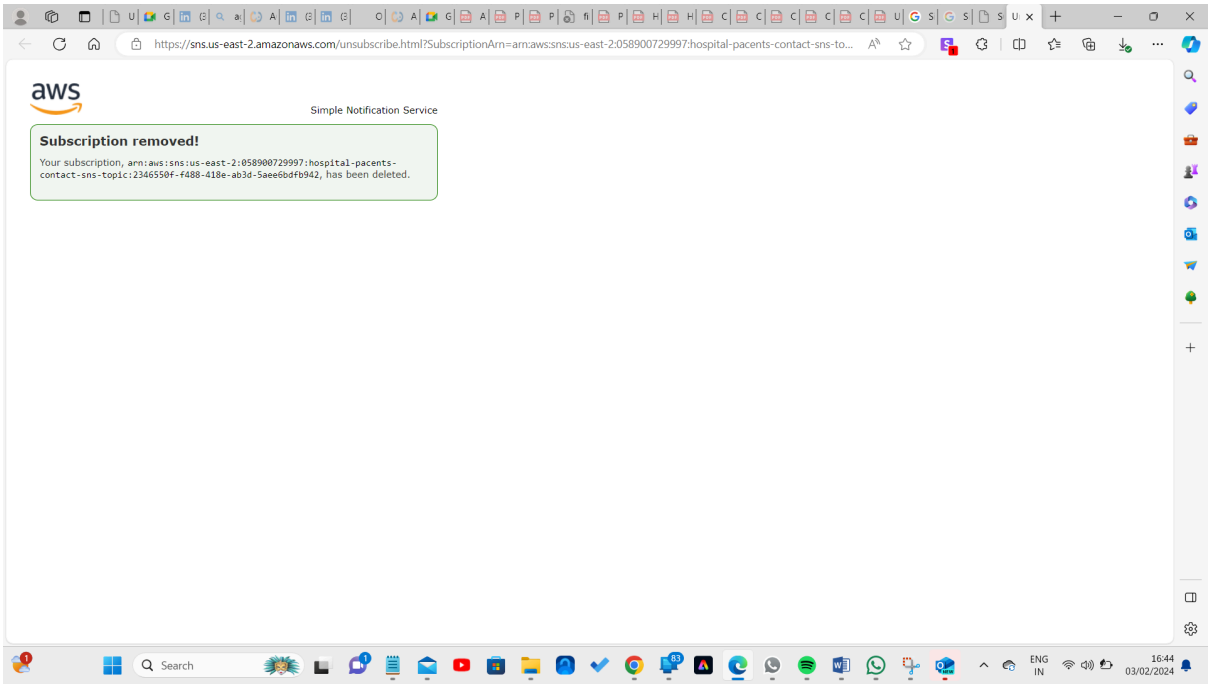
SEE THE PUBLISH MESSAGE SUCCESSFULLY..



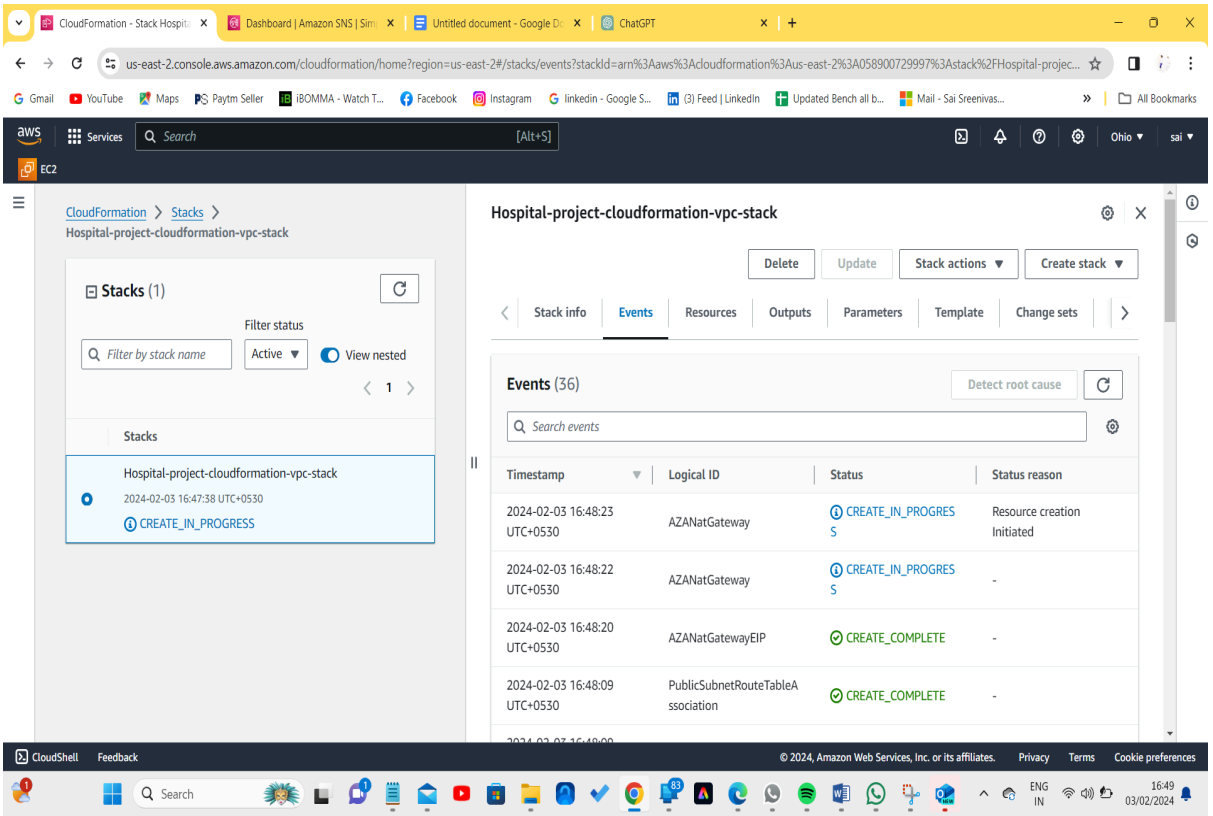
AFTER PUBLISH THE MESSAGE SEE THE EMAIL NOTIFICATION DETAILS.



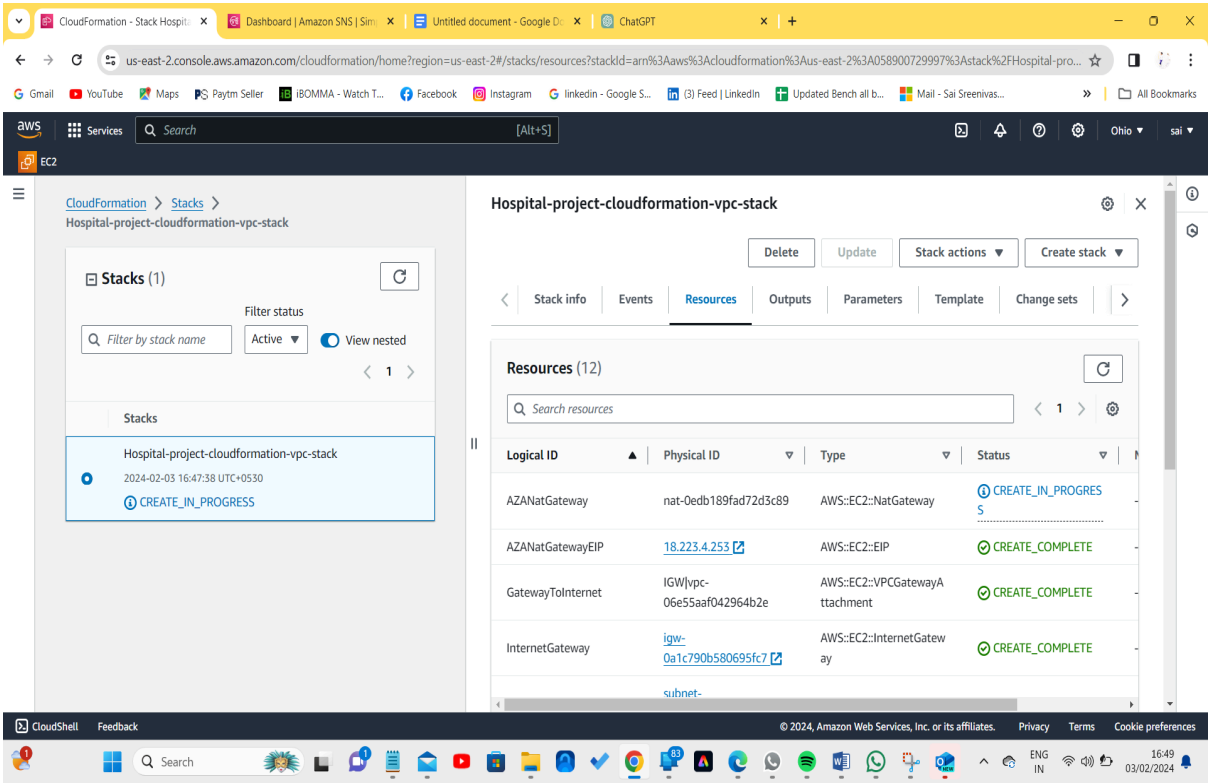
AFTER COMPLETE THE CONFIRM SUBSCRIPTION REMOVED..



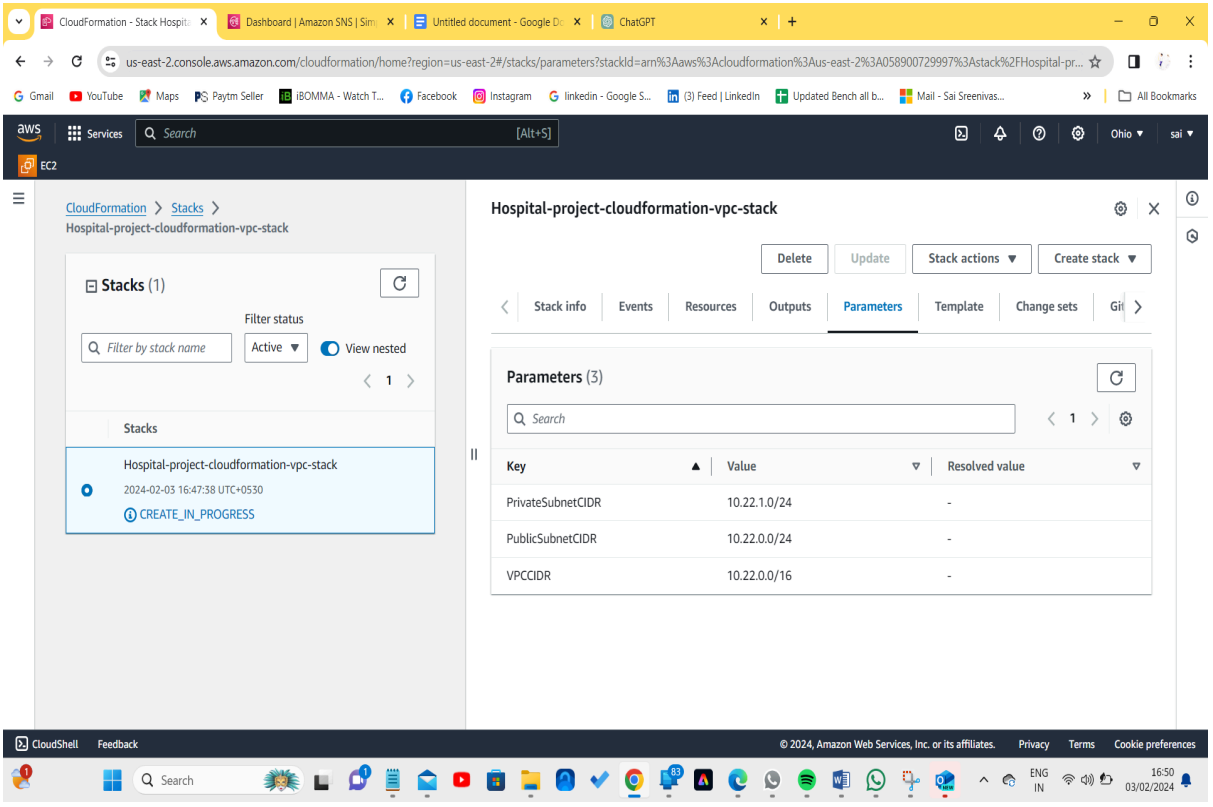
FINALLY SEE THE CLOUDFORMATION STACK DETAILS CREATED SUCCESSFULLY. AND STACK INFORMATION AND EVENTS ALSO….



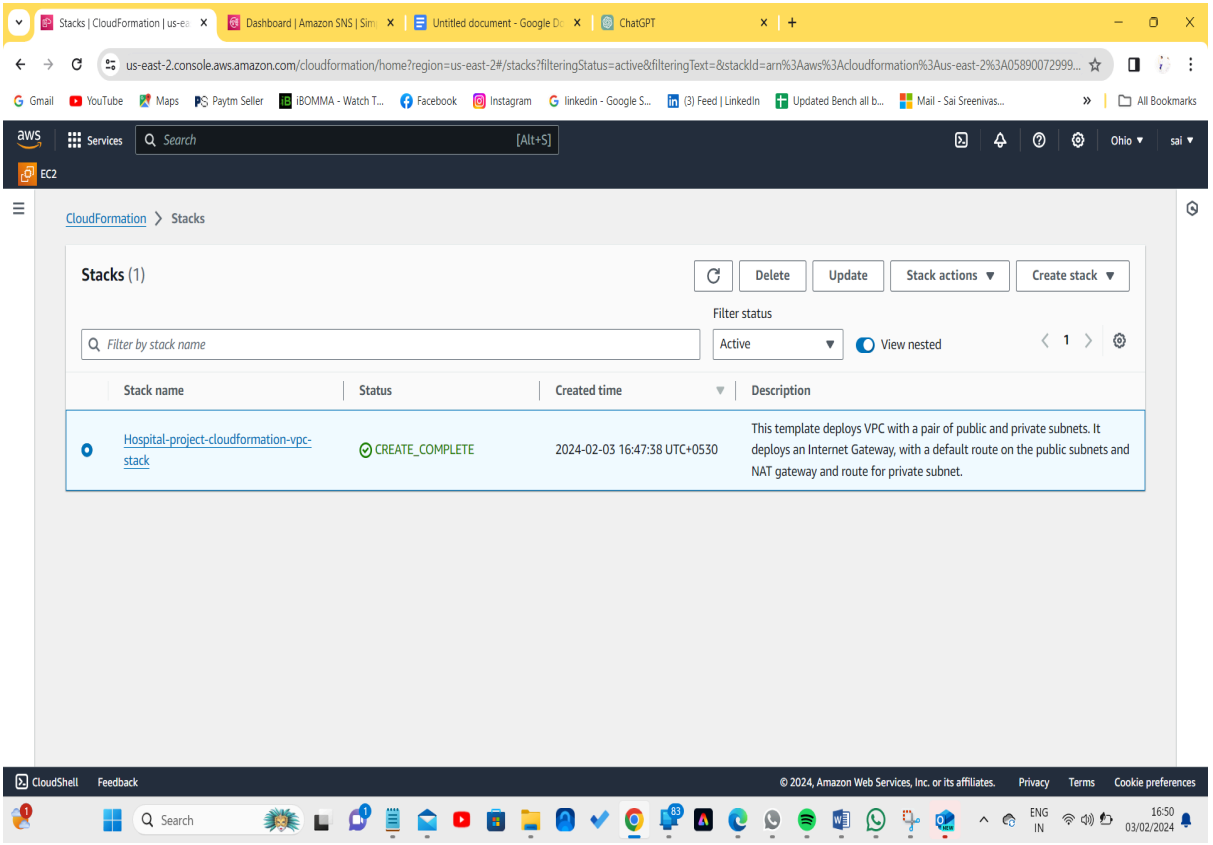
STACK RESOURCES CREATE THE COMPLETE…



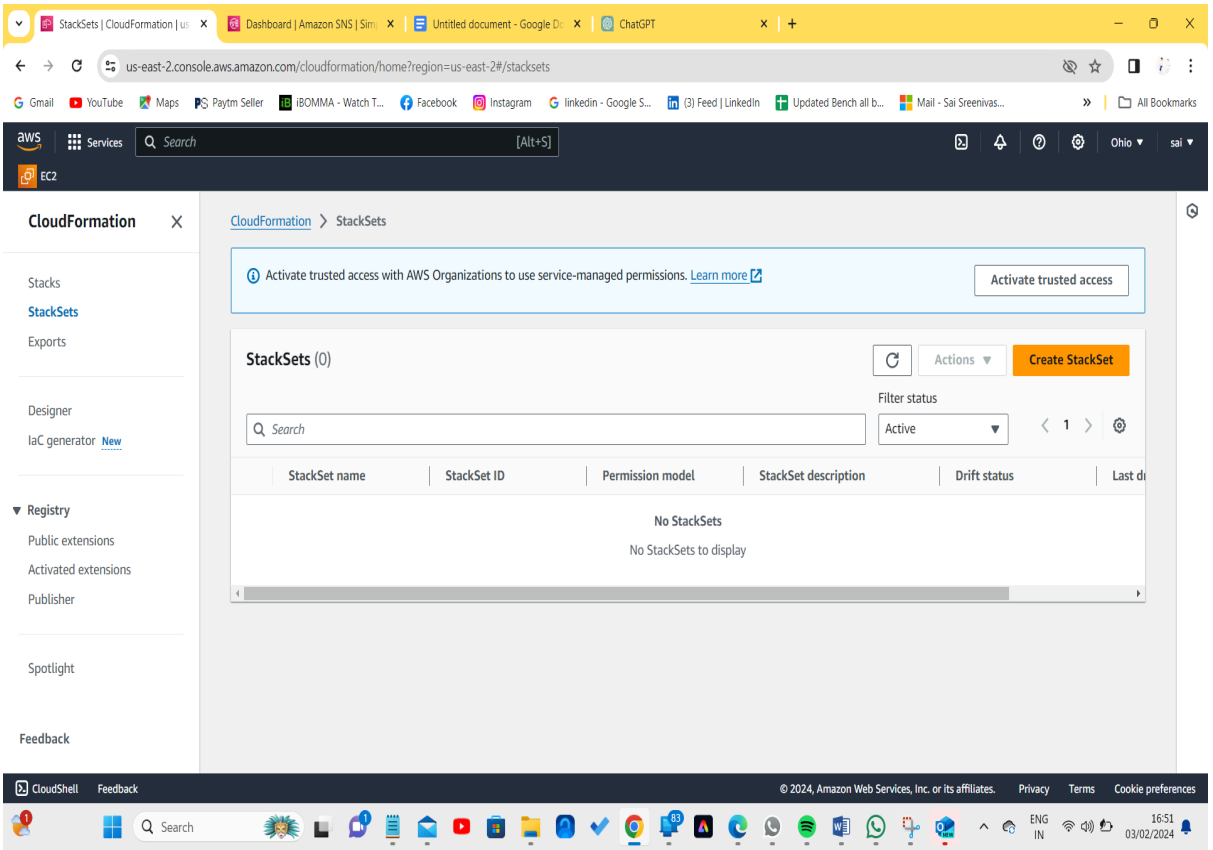
STACK PARAMETERS IN THE CLOUDFORMATION..



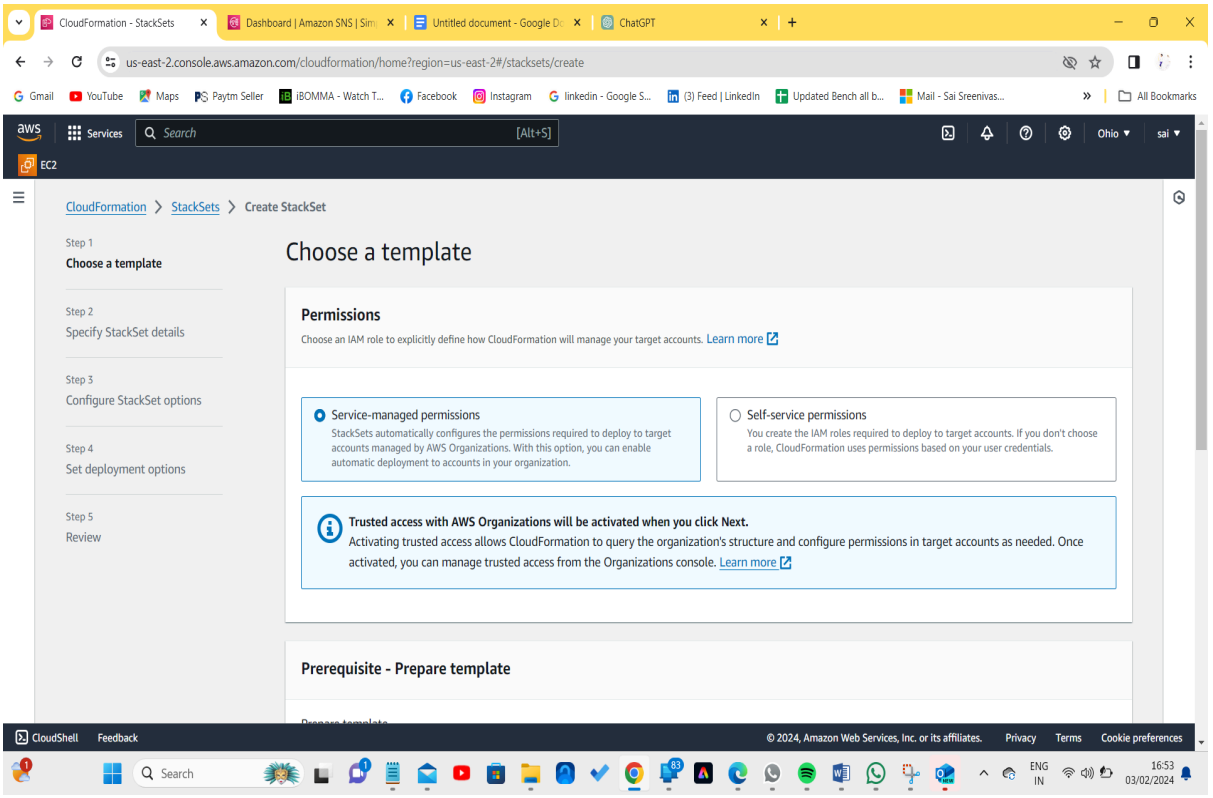
FINALLY CHECK THE CREATE STACK IN TEMPLATE..



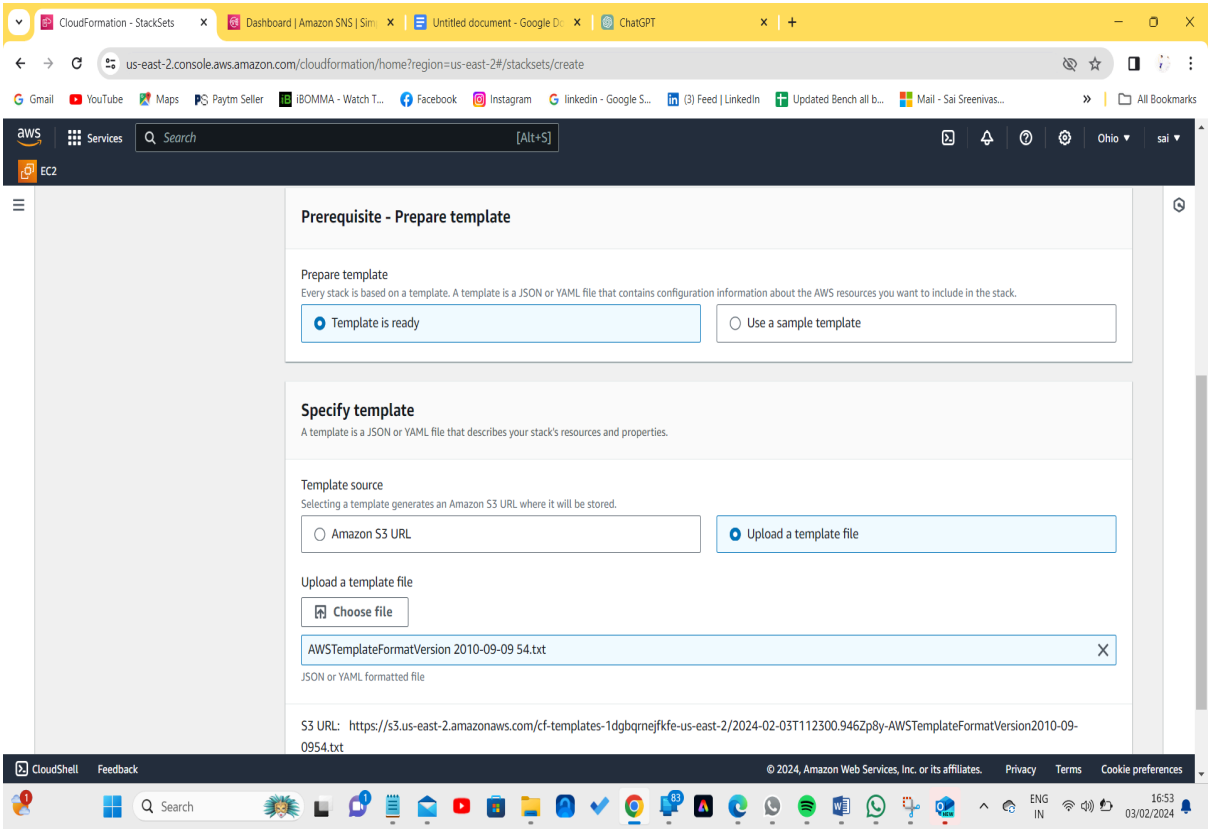
OPEN THE CLOUDFORMATION DASHBOARD AND CLICK TO OPEN THE STACKSETS..



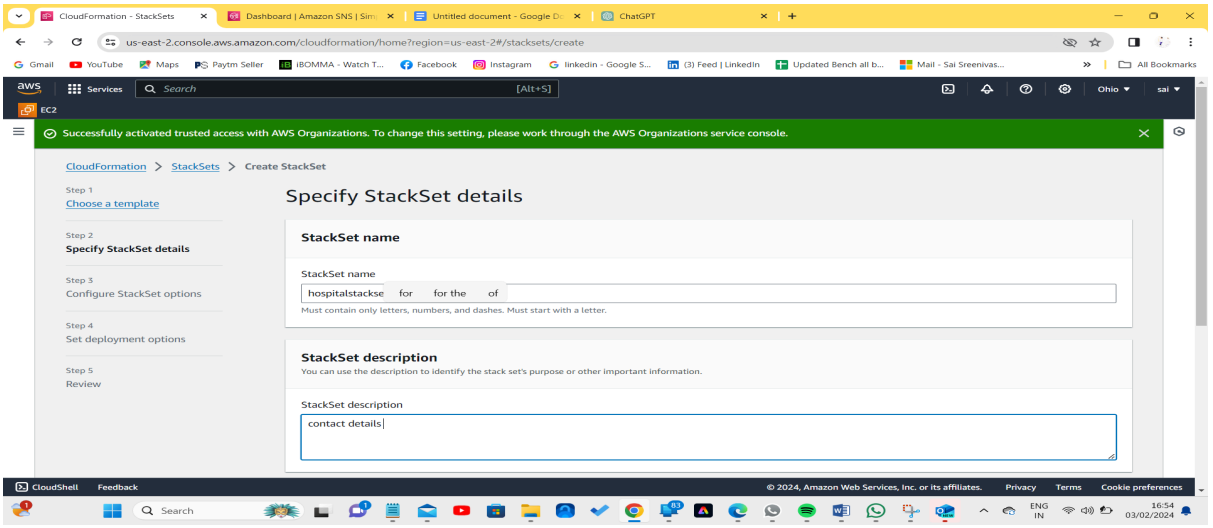
CREATE STACKSETS CHOOSE THE PERMISSIONS..



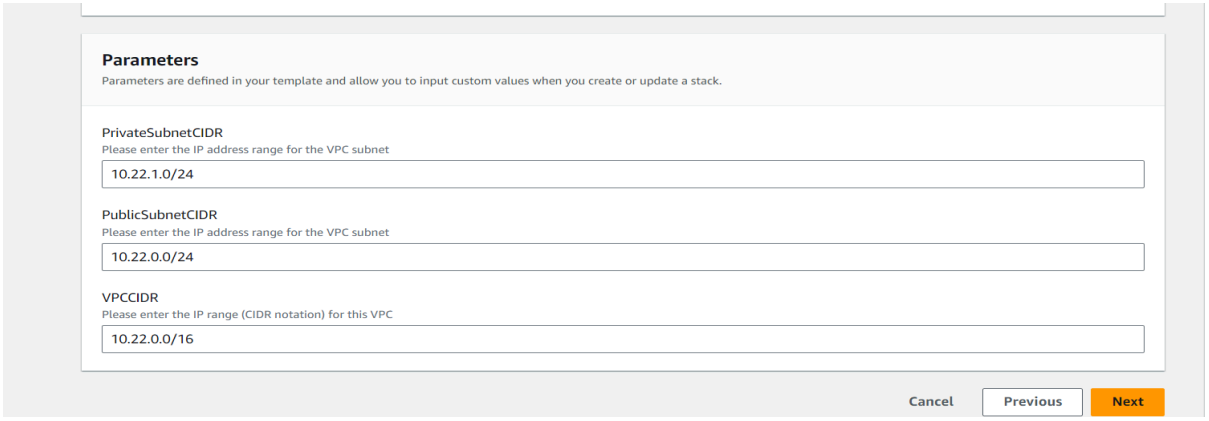
PREREQUISITE PREPARE TEMPLATE..SPECIFY DETAILS..



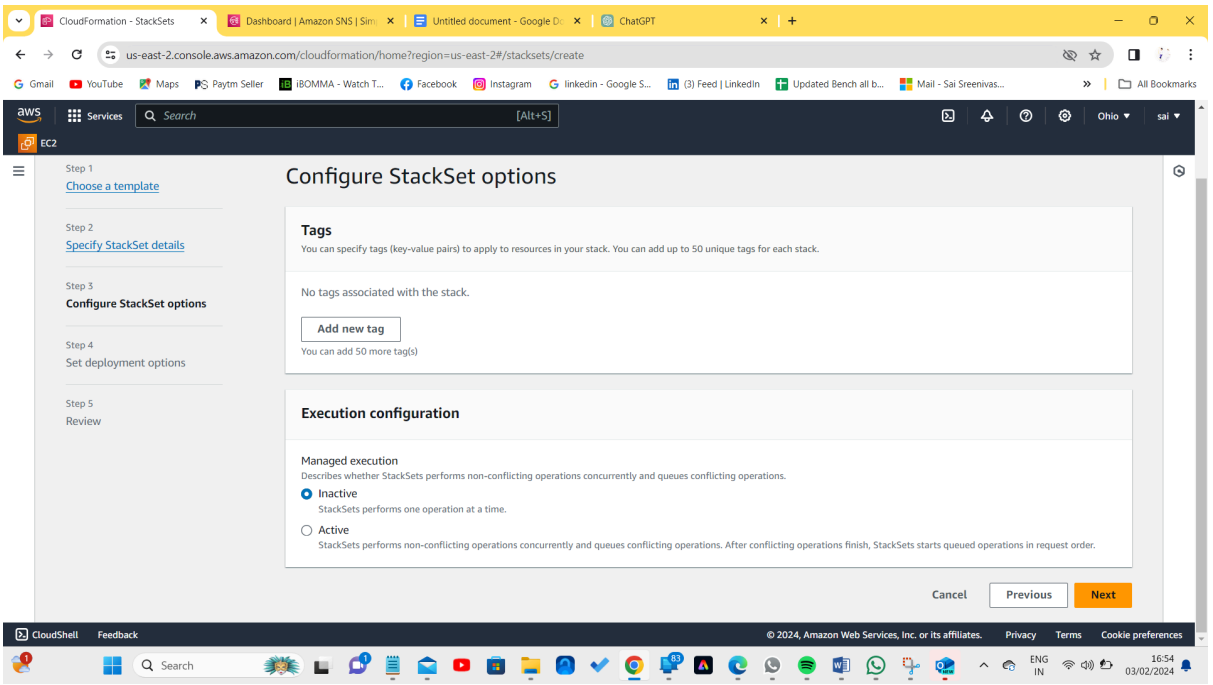
GIVE THE SPECIFY STACK DETAILS...



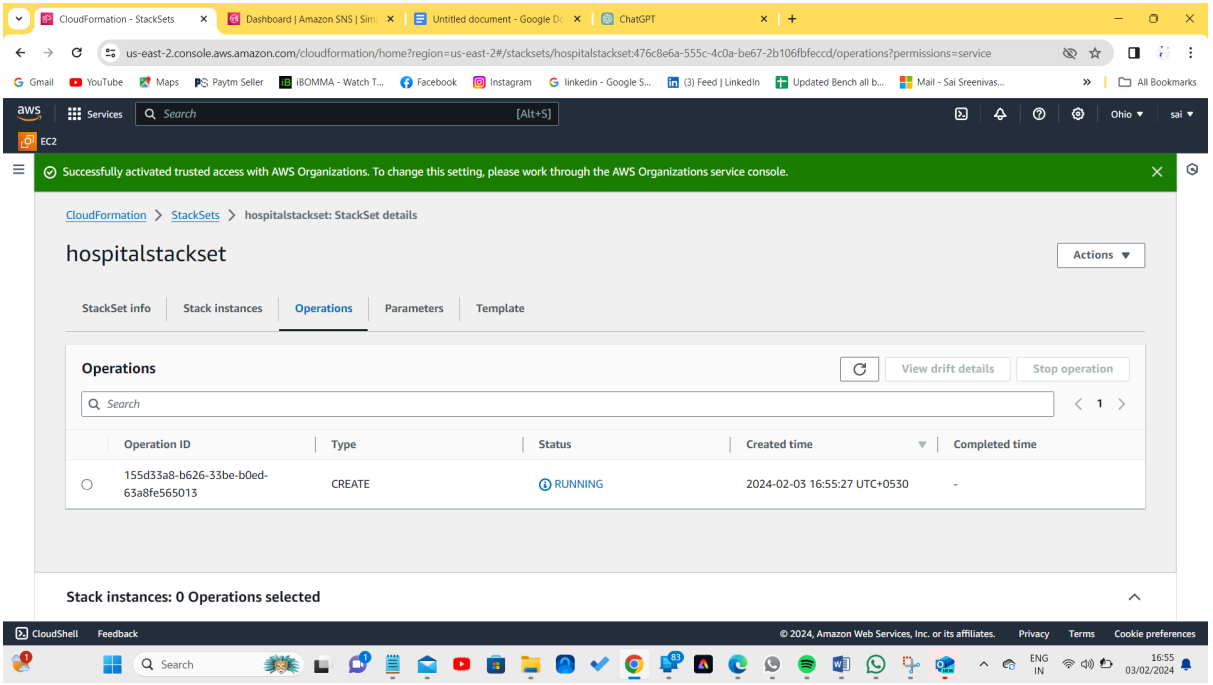
STACKSETS PARAMETERS...



CONFIGURE STACKSETS OPTIONALLY..

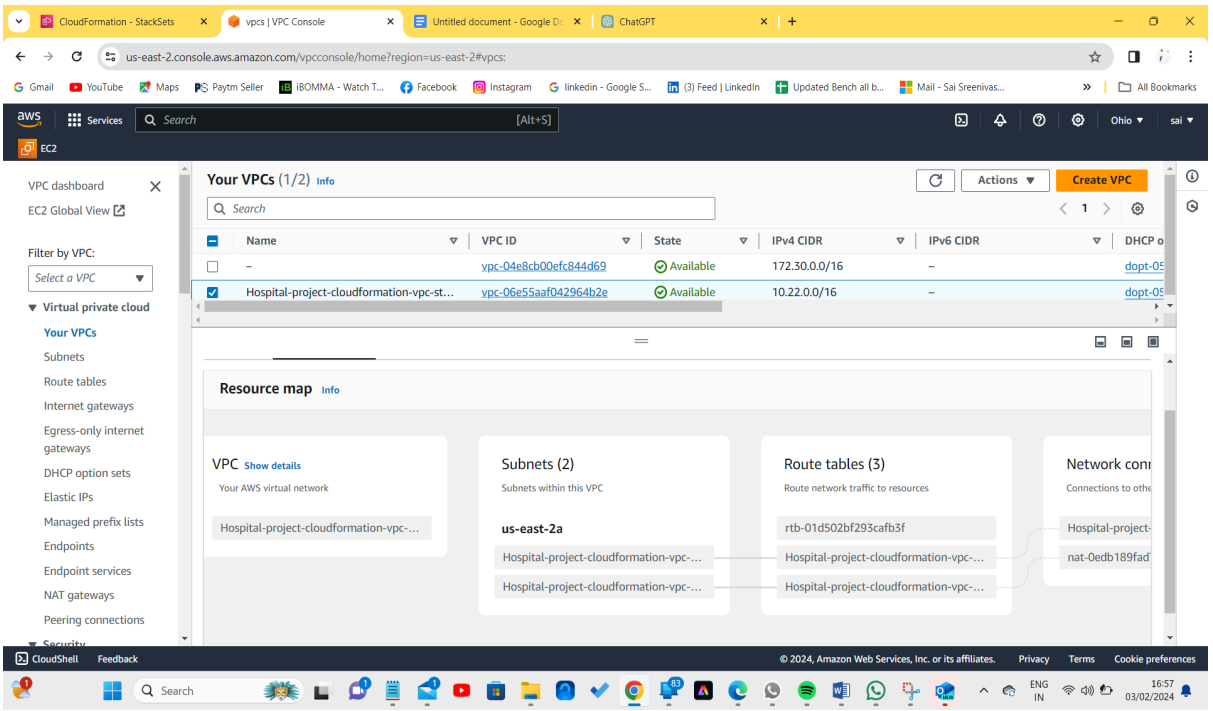


SUCCESSFULLY CREATED THE HOSPITAL STACKSETS..

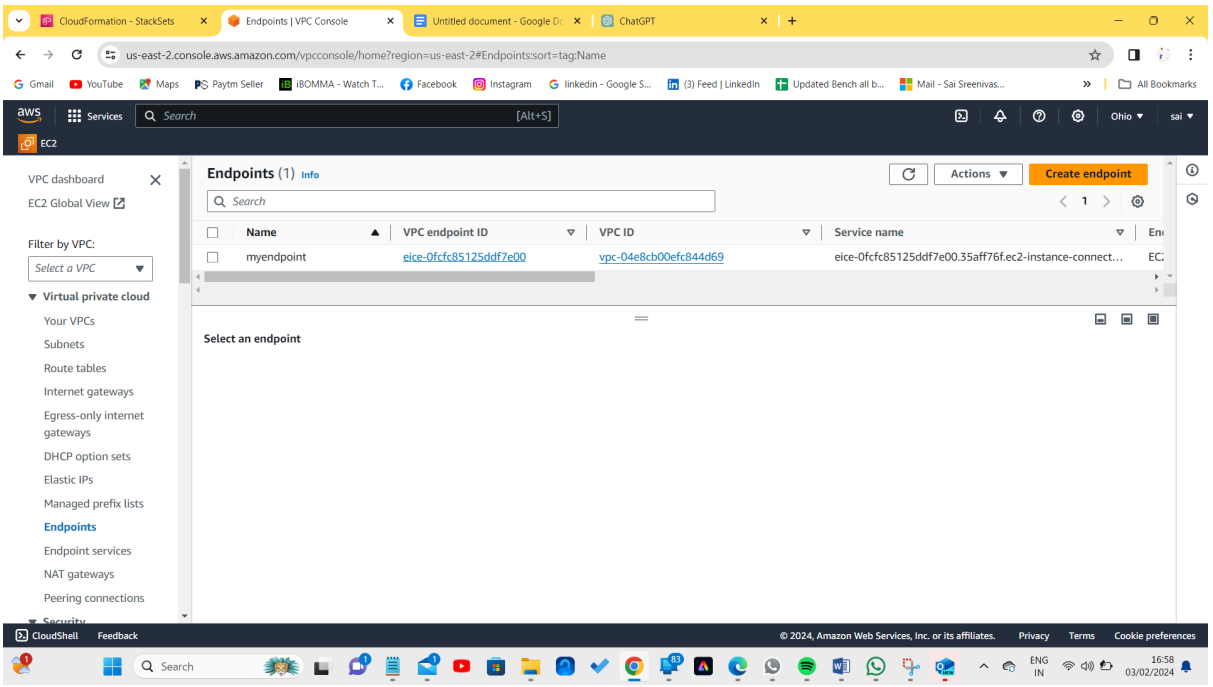


AFTER THAT GO TO THE VPC'S SERVICE AND SEE THE CREATED VPC IN CLOUDFORMATION.

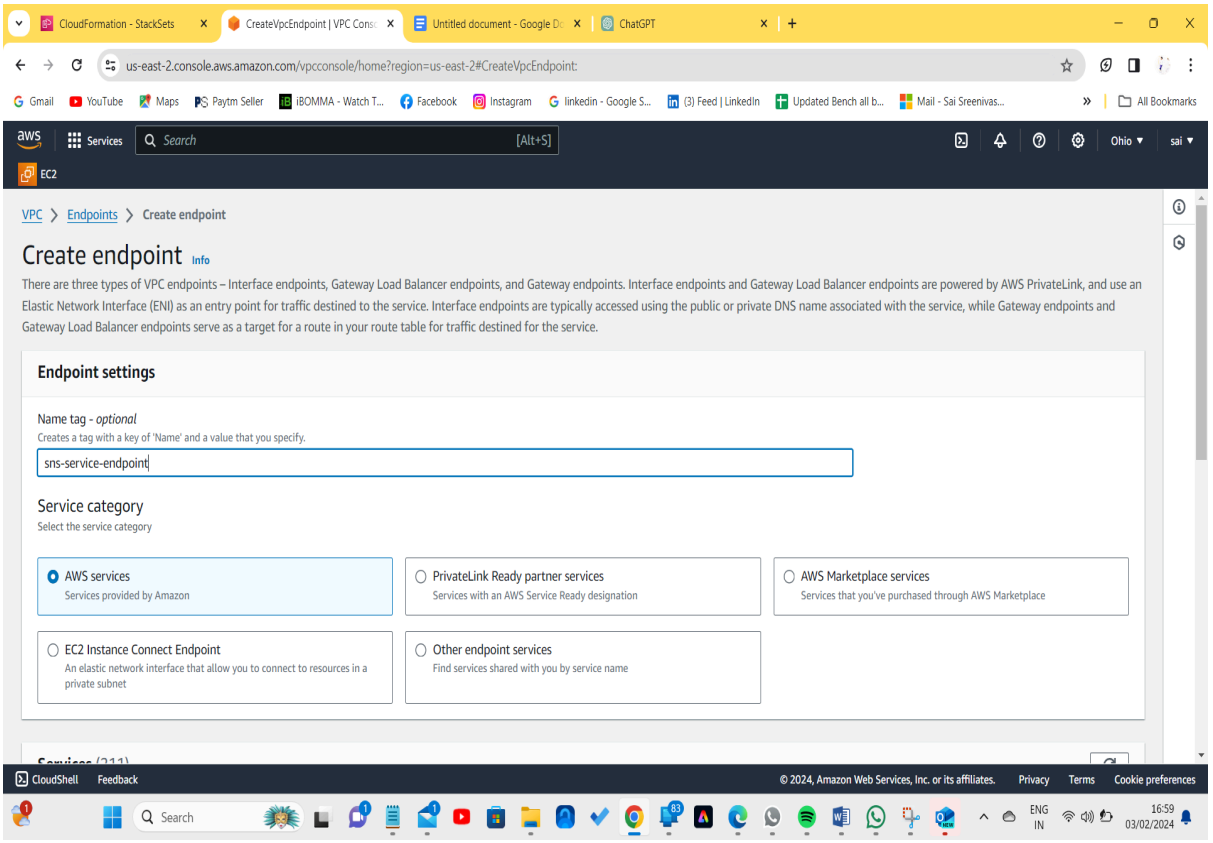
VPC RESOURCE MAP…



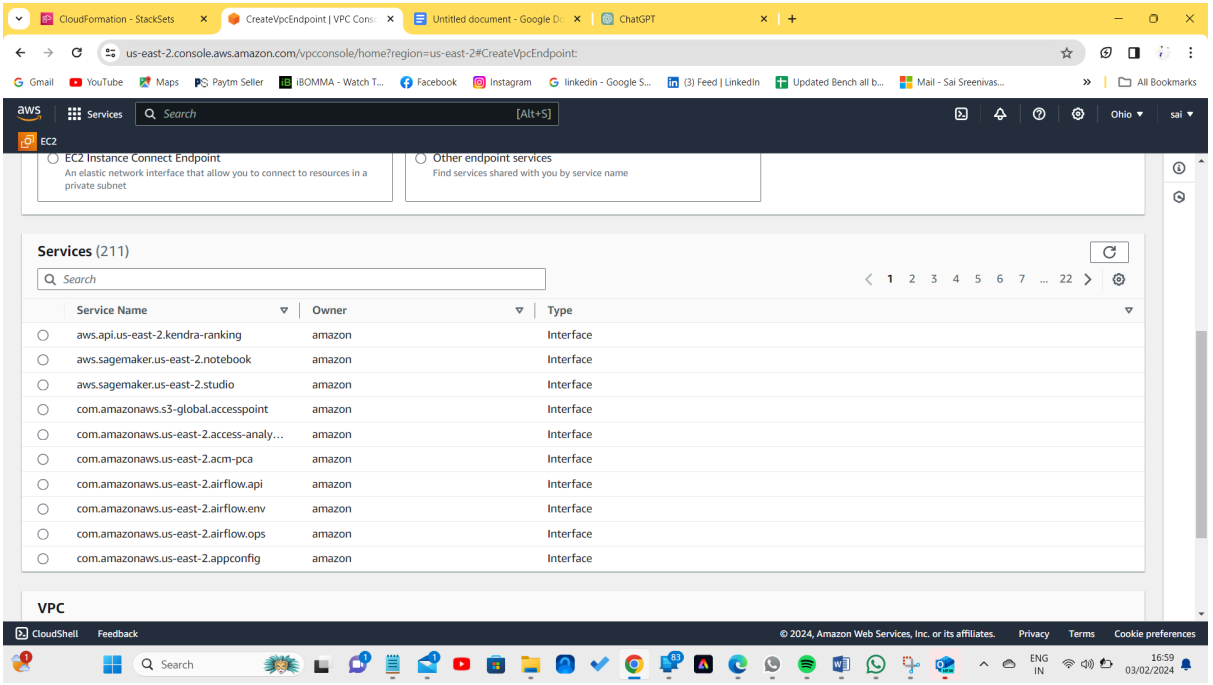
THEN CREATE THE SNS ENDPOINTS…CLICK THE CREATE OPTION..



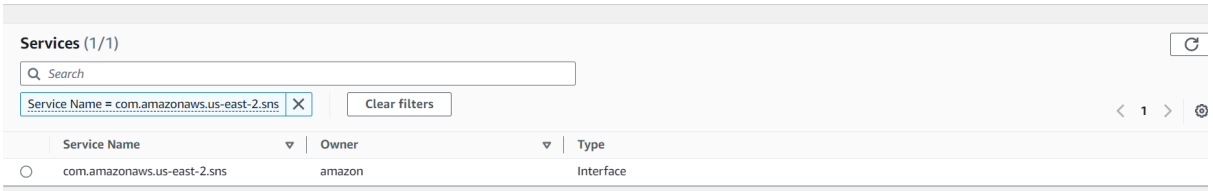
OPEN THE CREATE THE ENDPOINT HOMEPAGE GIVE THE ENDPOINT SETTINGS.. SERVICE CATEGORY…



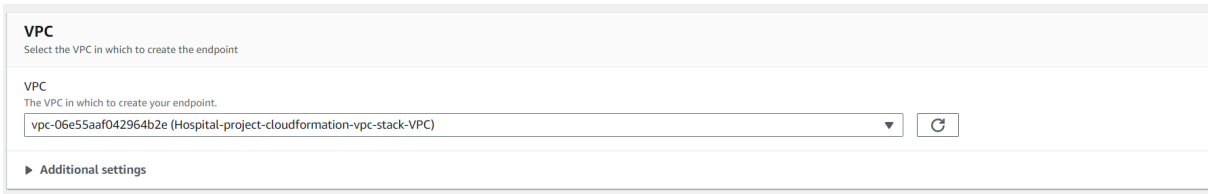
SEE THE END POINT SERVICES..



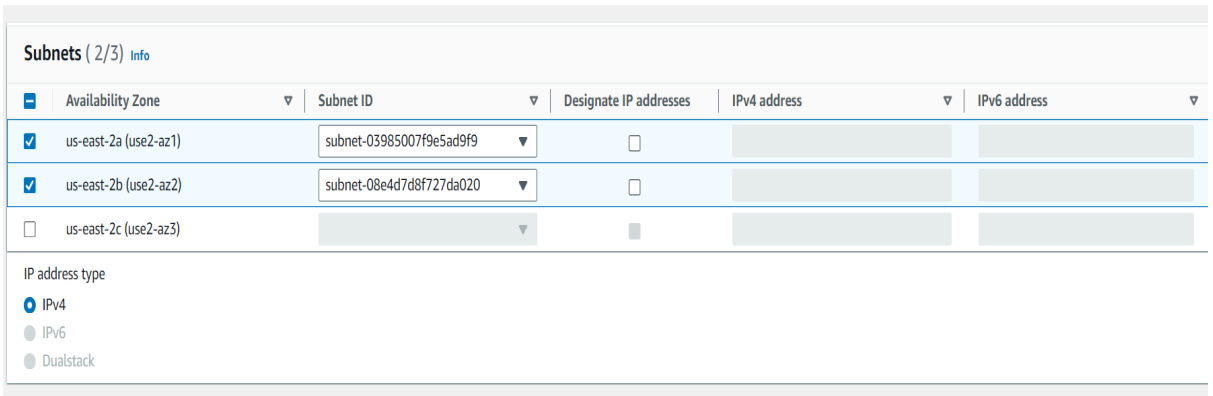
SELECT SERVICE NAME IN SNS ENDPOINT..



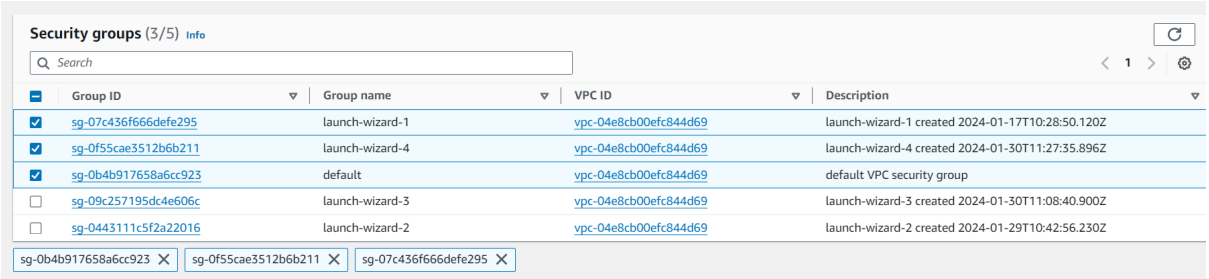
SELECTED VPC ALSO...



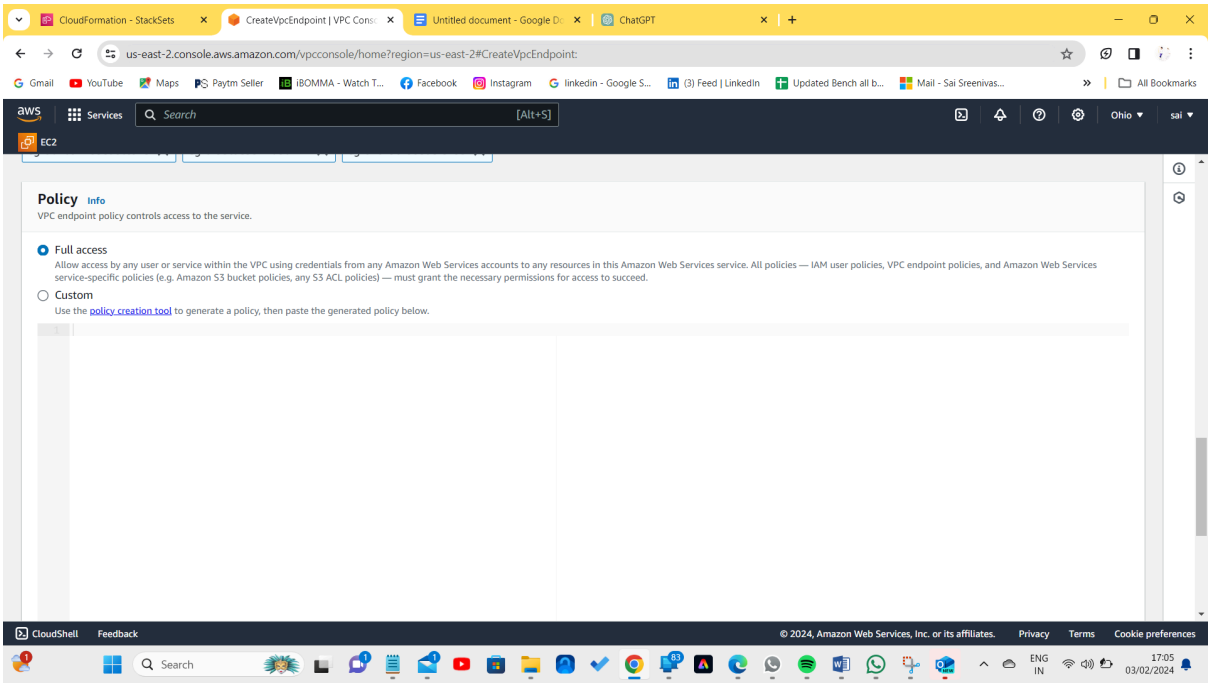
SELECTED SUBNETS ALSO..



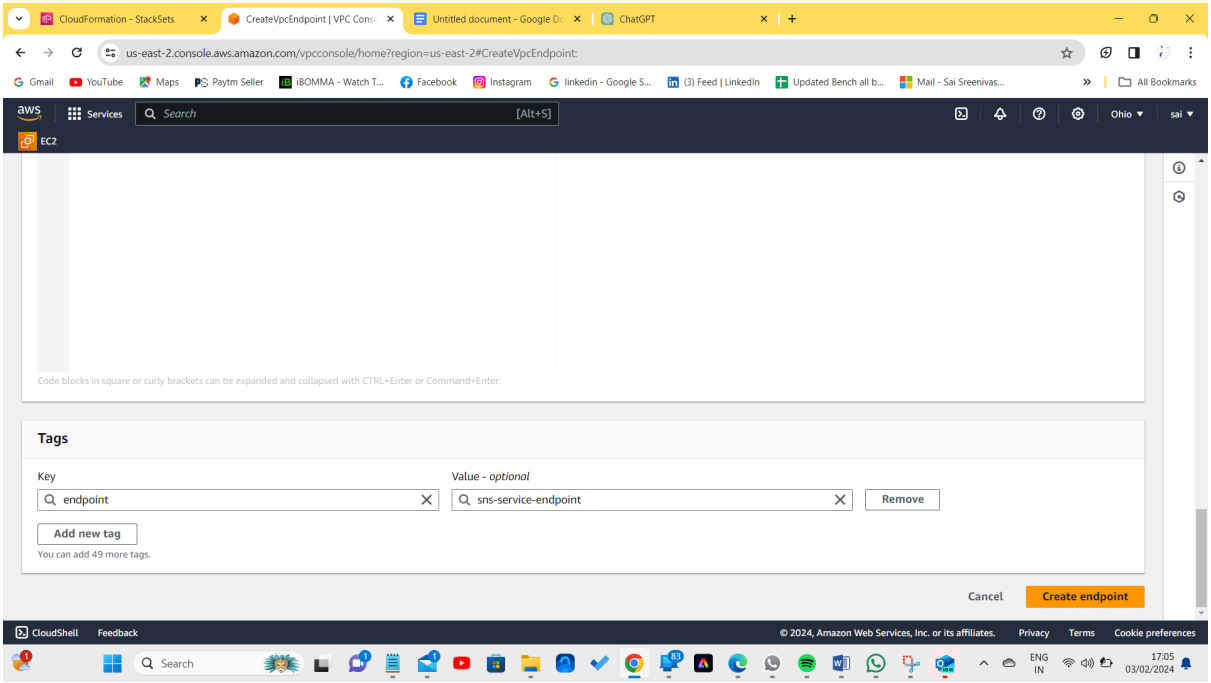
SELECT THE SECURITY GROUP DETAILS..



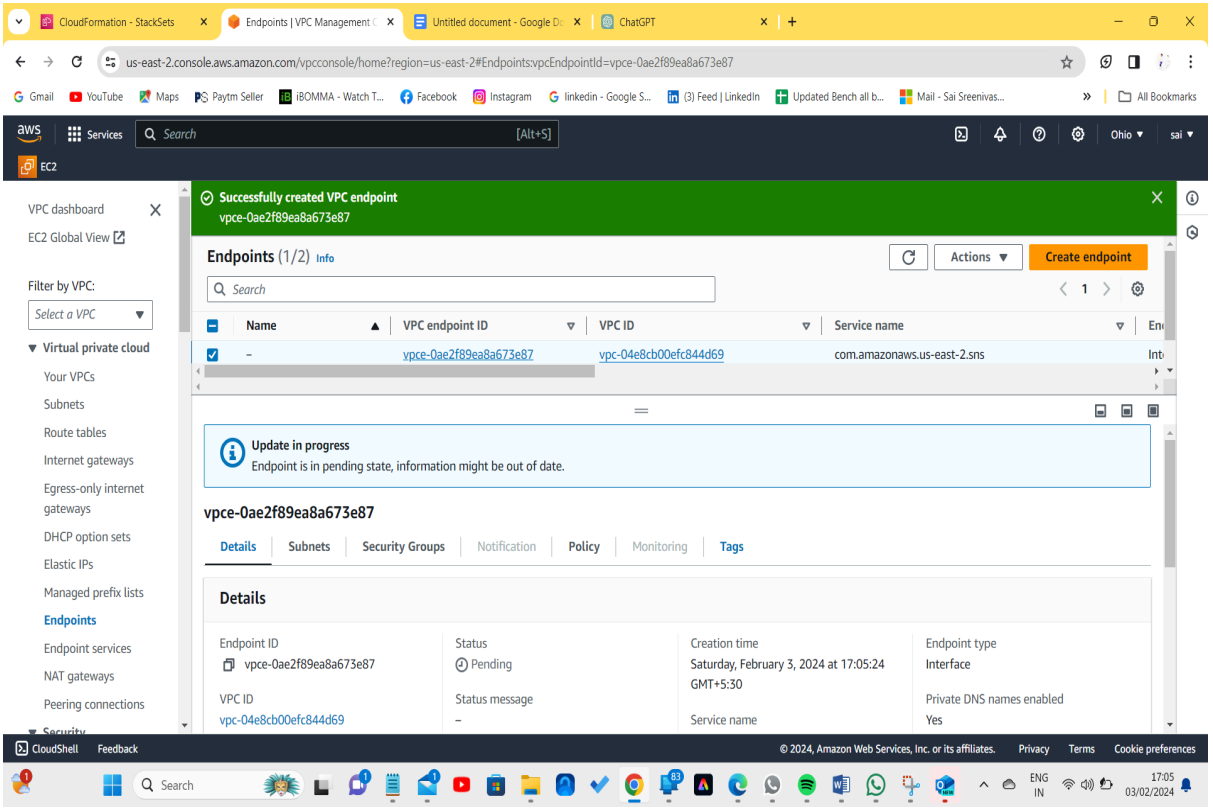
POLICY FULLY ACCESS.



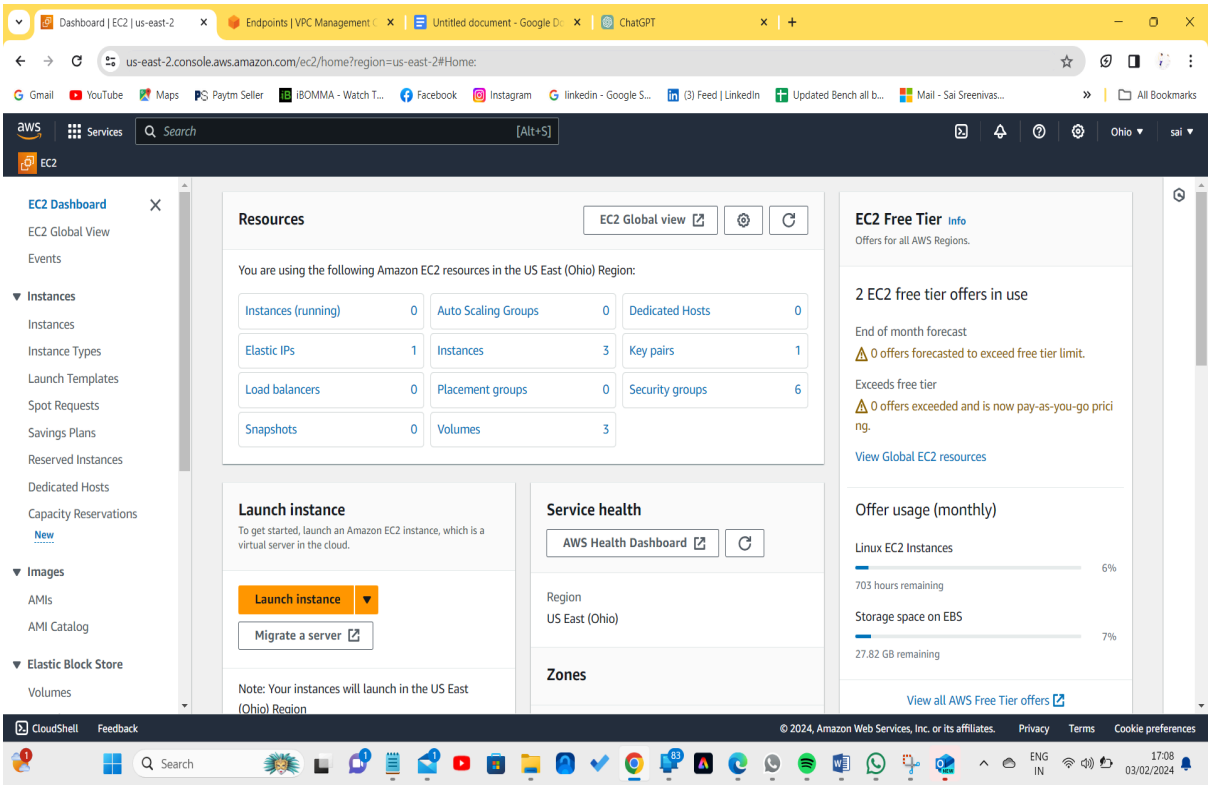
TAG SELECTED..CLICK THE CREATE ENDPOINT BUTTON DO IT..



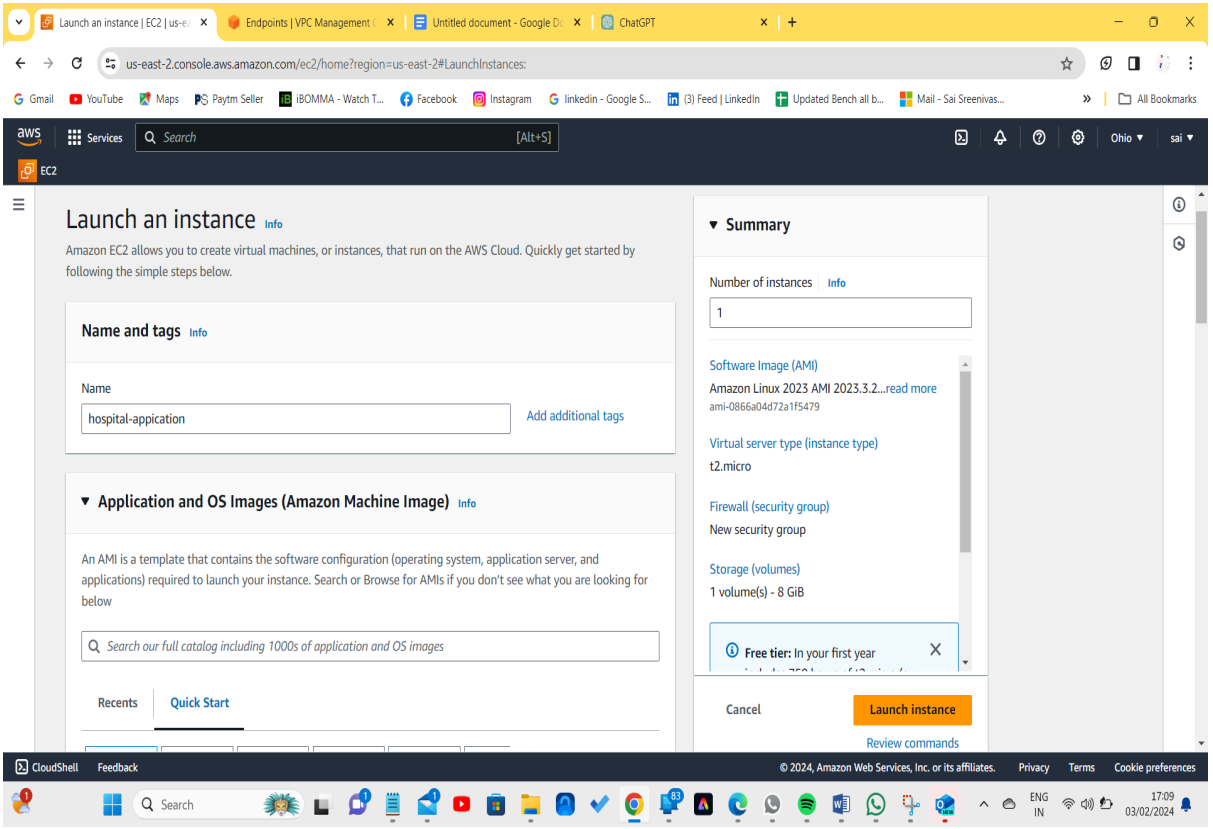
SUCCESSFULLY CREATED VPC ENDPOINT…



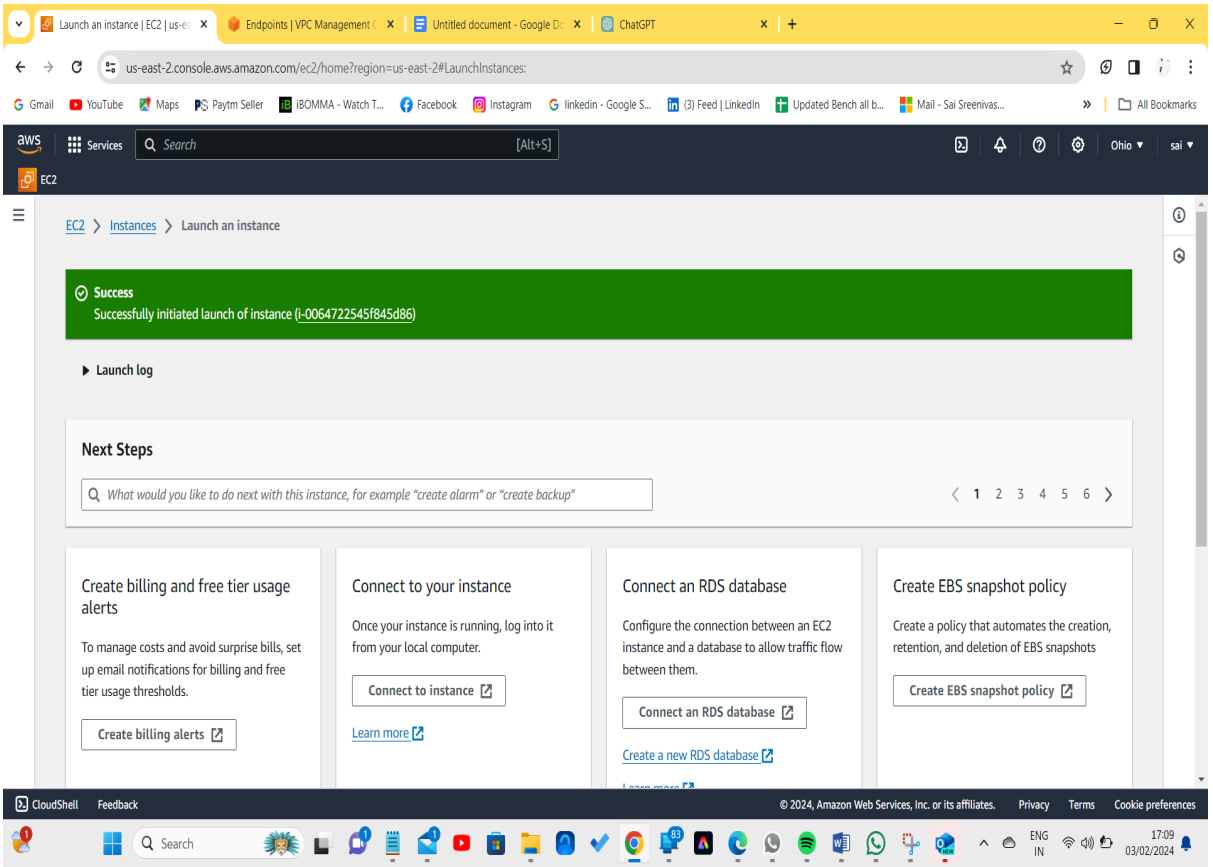
OPEN THE EC2 CONSOLE HOMEPAGE AND CLICK THE CREATE INSTANCE..



LAUNCH AN INSTANCE GIVE TAG AND NAME..

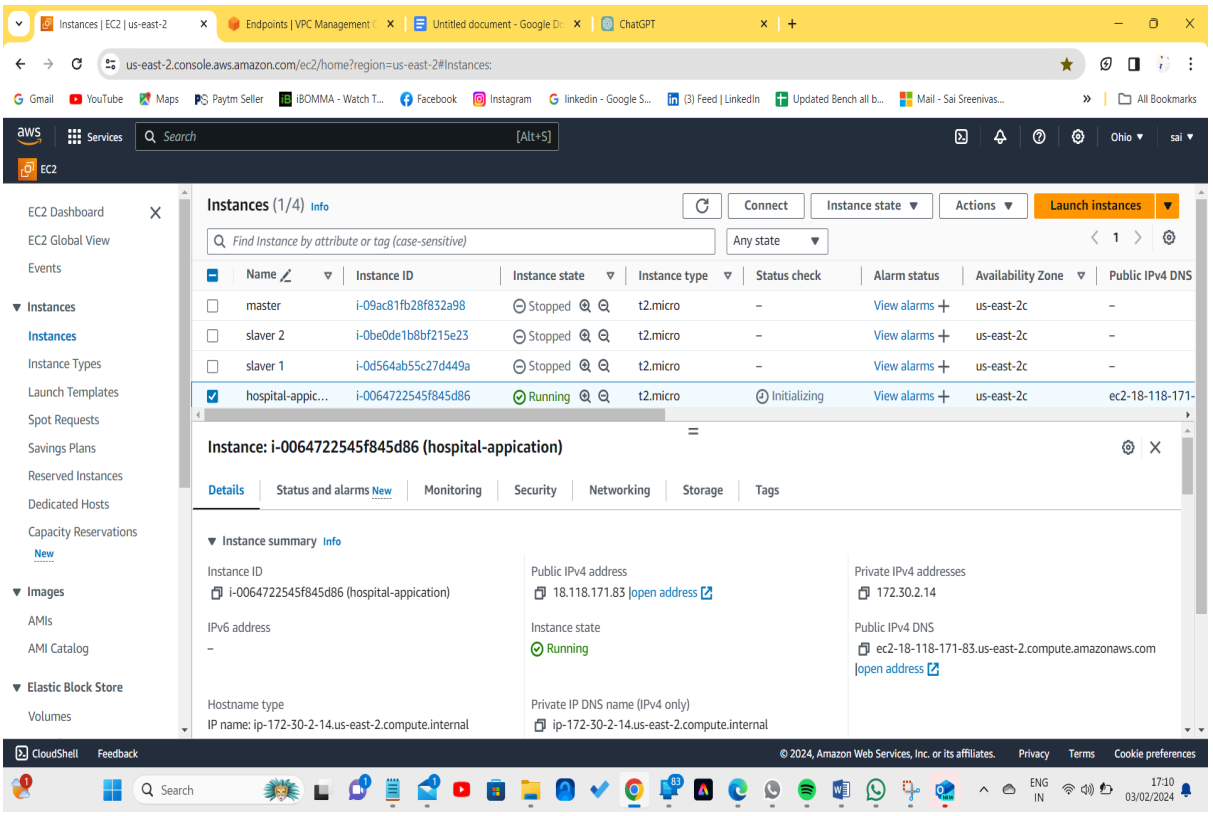


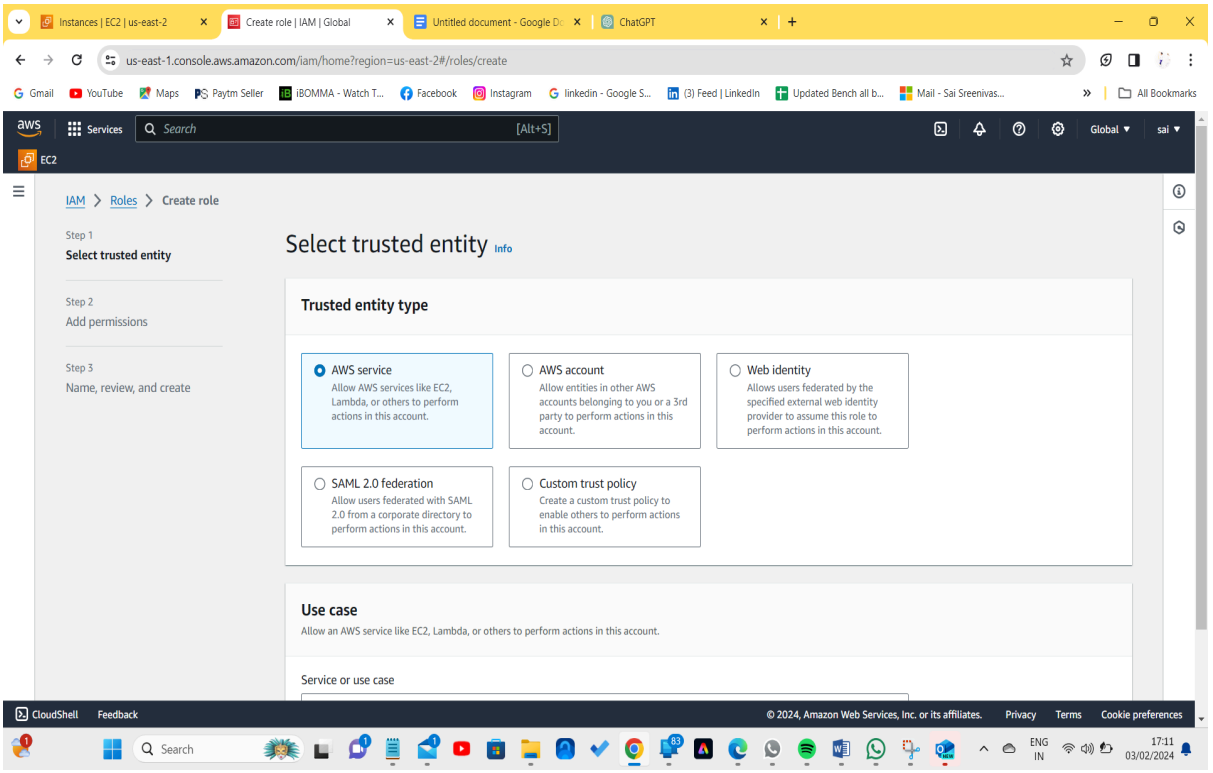
SUCCESSFULLY CREATED THE INSTANCE IN EC2.



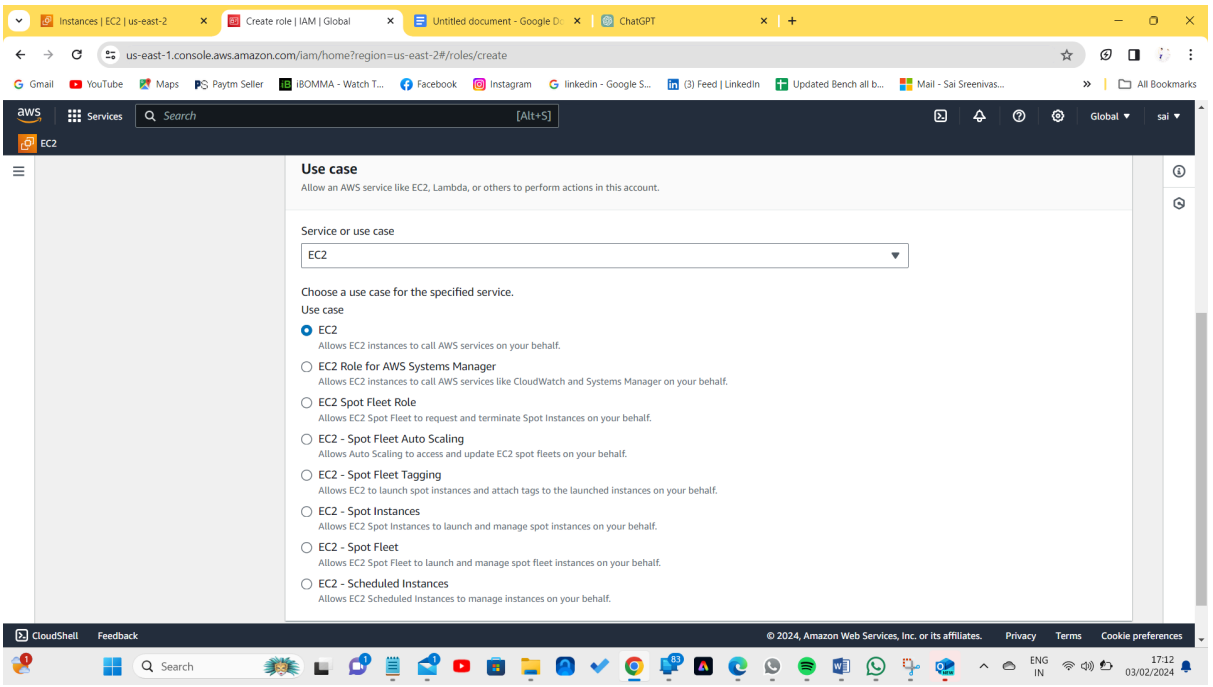
NOW SEE THE RUNNING INSTANCE INEC2..

GO TO THE IAM ROLE HOMEPAGE SELECTED TRUSTED ENTITY…

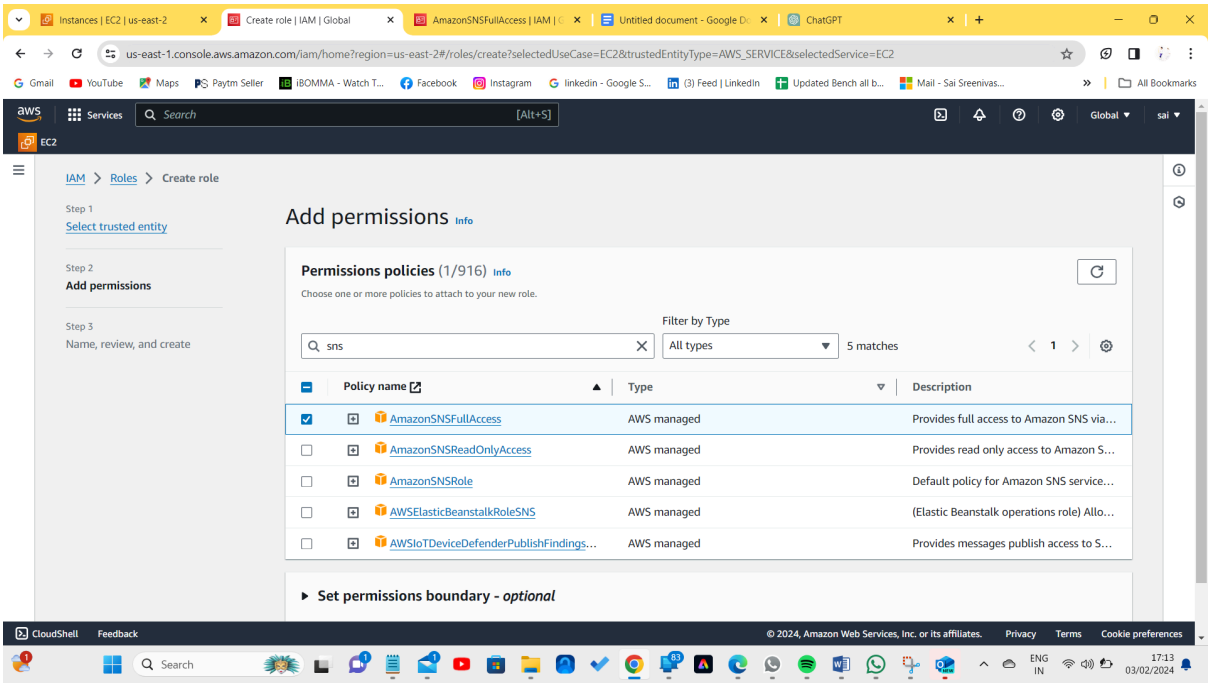




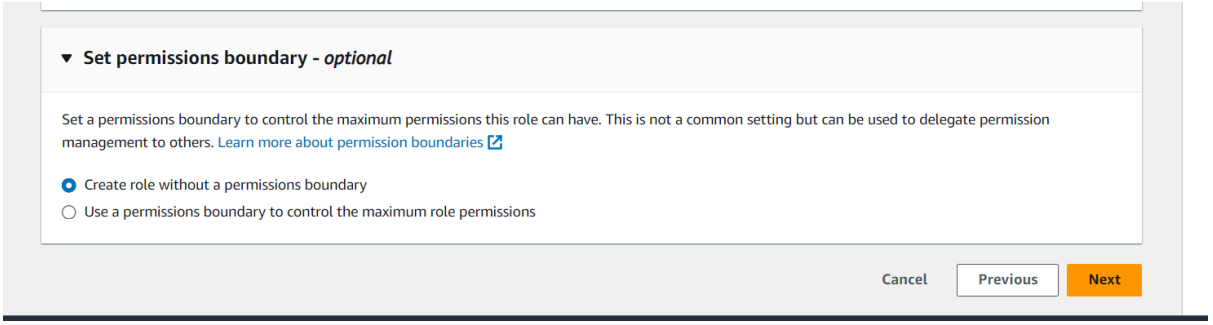
USE CASE OF IMA ROLE SELECT THE EC2..



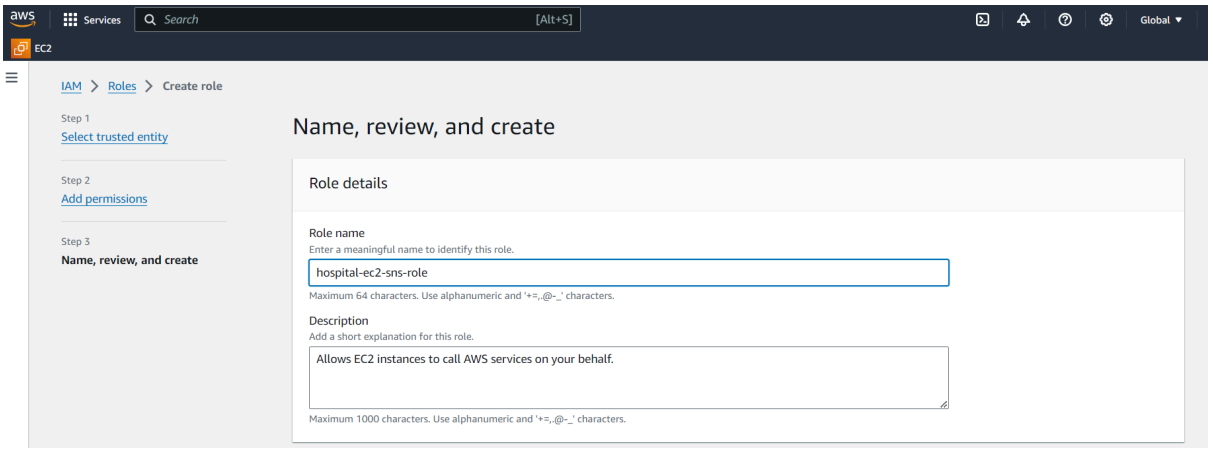
ADD PERMISSION POLICY…



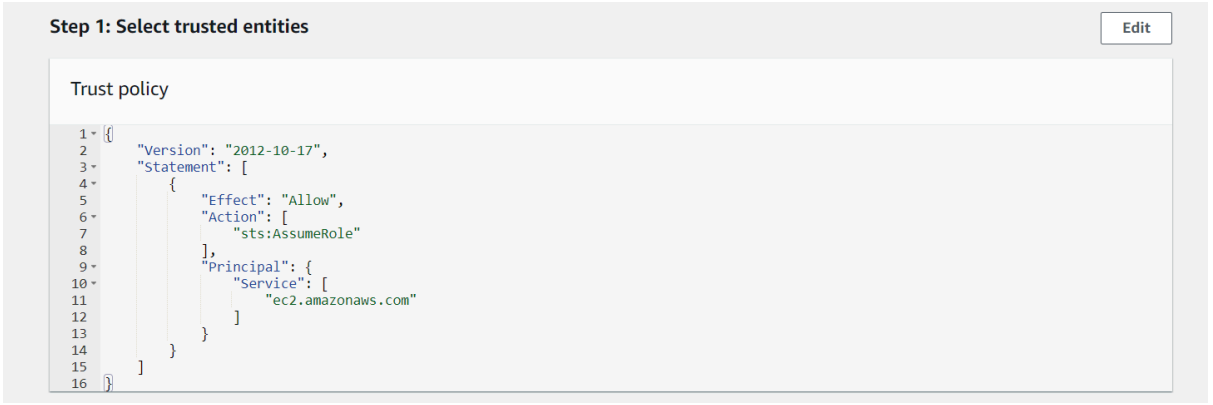
SET PERMISSION BOUNDARY OPTIONAL..



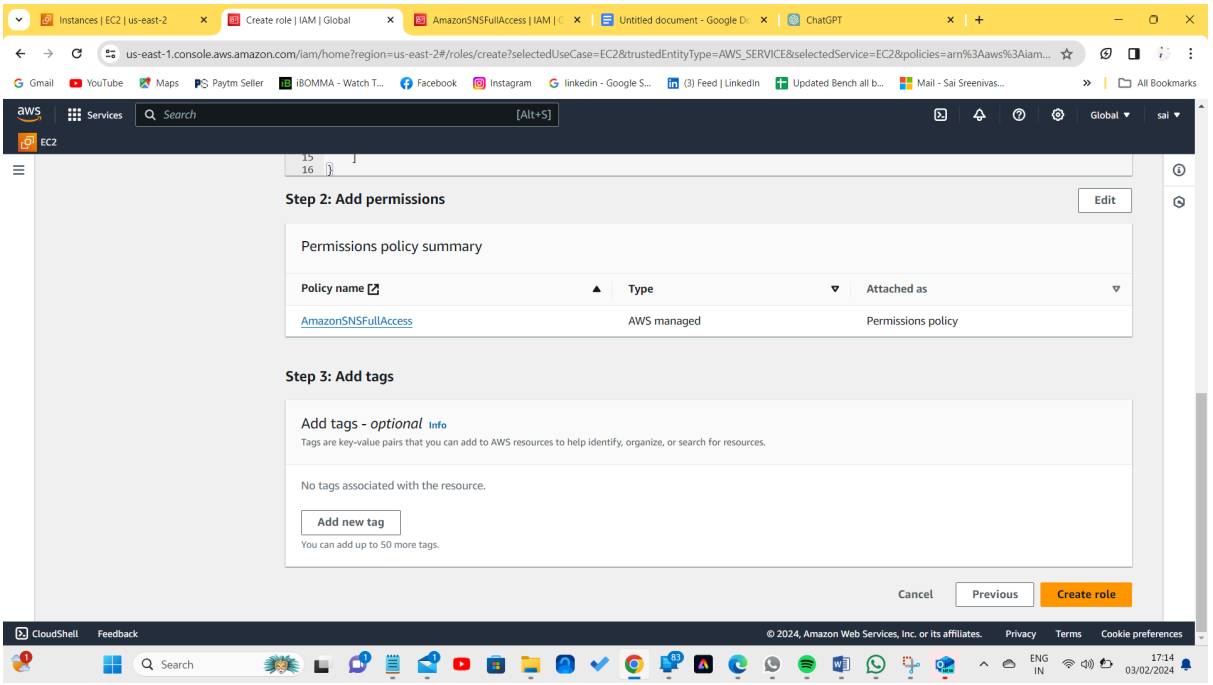
REVIEW THE CREATE THE ROLE..



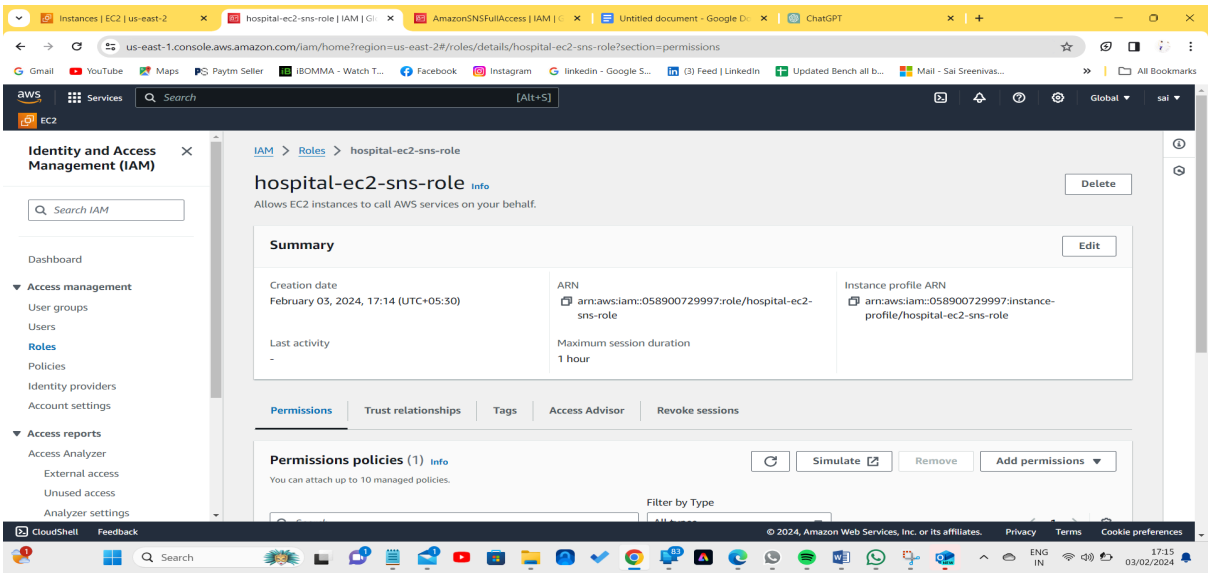
SELECTED TRUSTED ENTITIES..



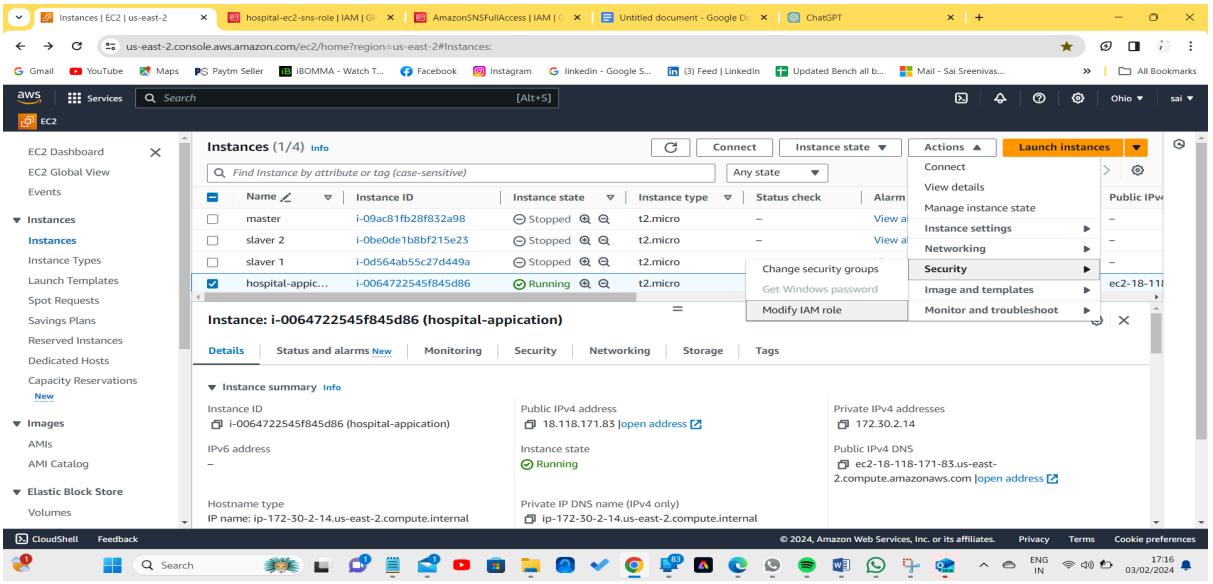
SET THE PERMISSION AND ADD TAGS CLICK THE CREATE ROLE OPTION.



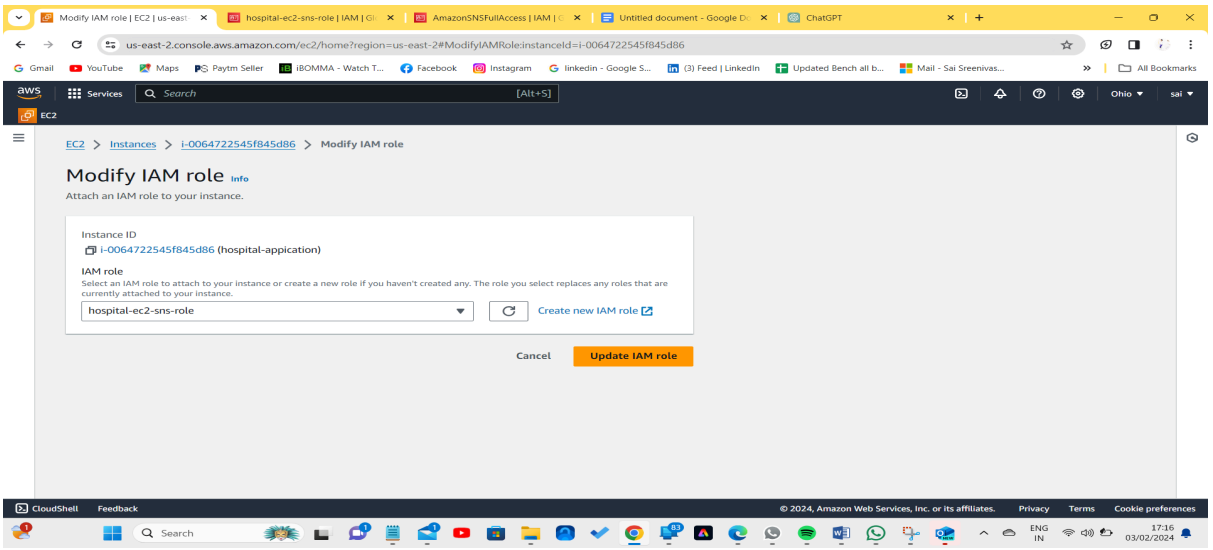
SUCCESSFULLY CREATED THE HOSPITAL ROLE..



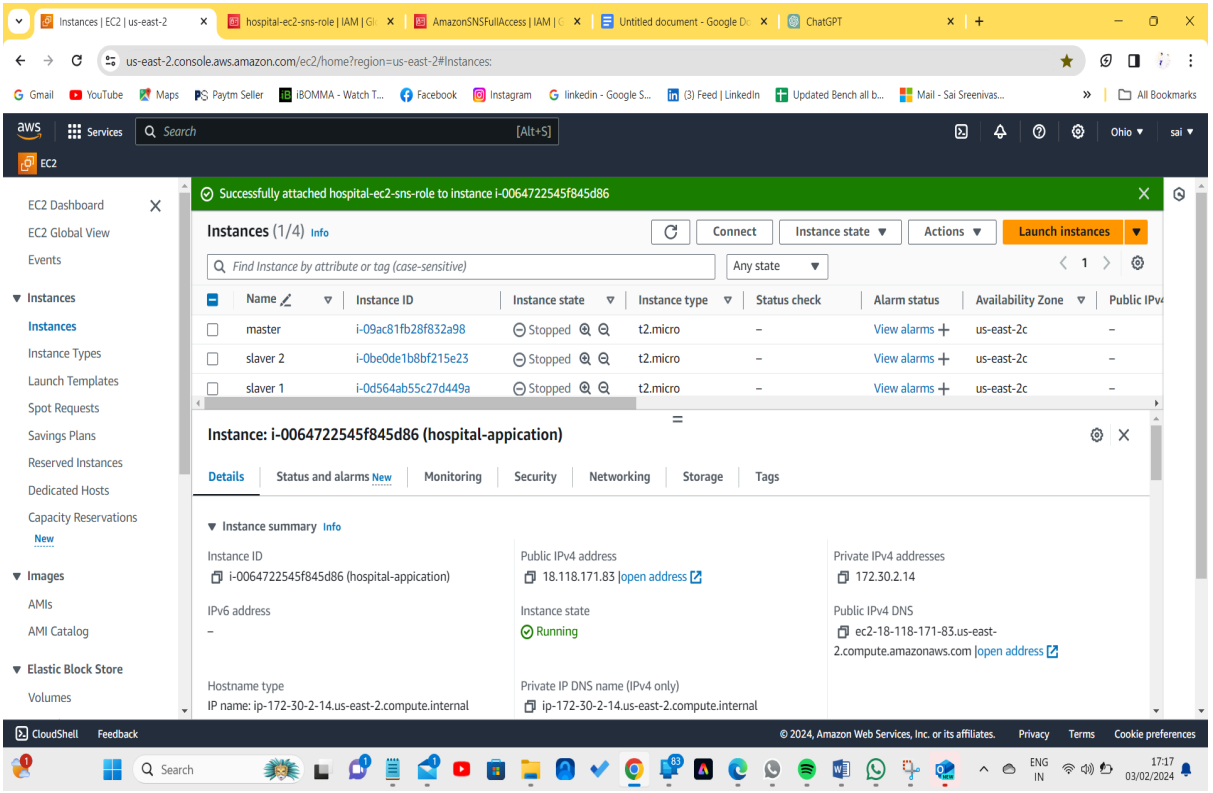
NOW GO THE INSTANCE OPEN THE ACTION MODIFY THE ROLE..



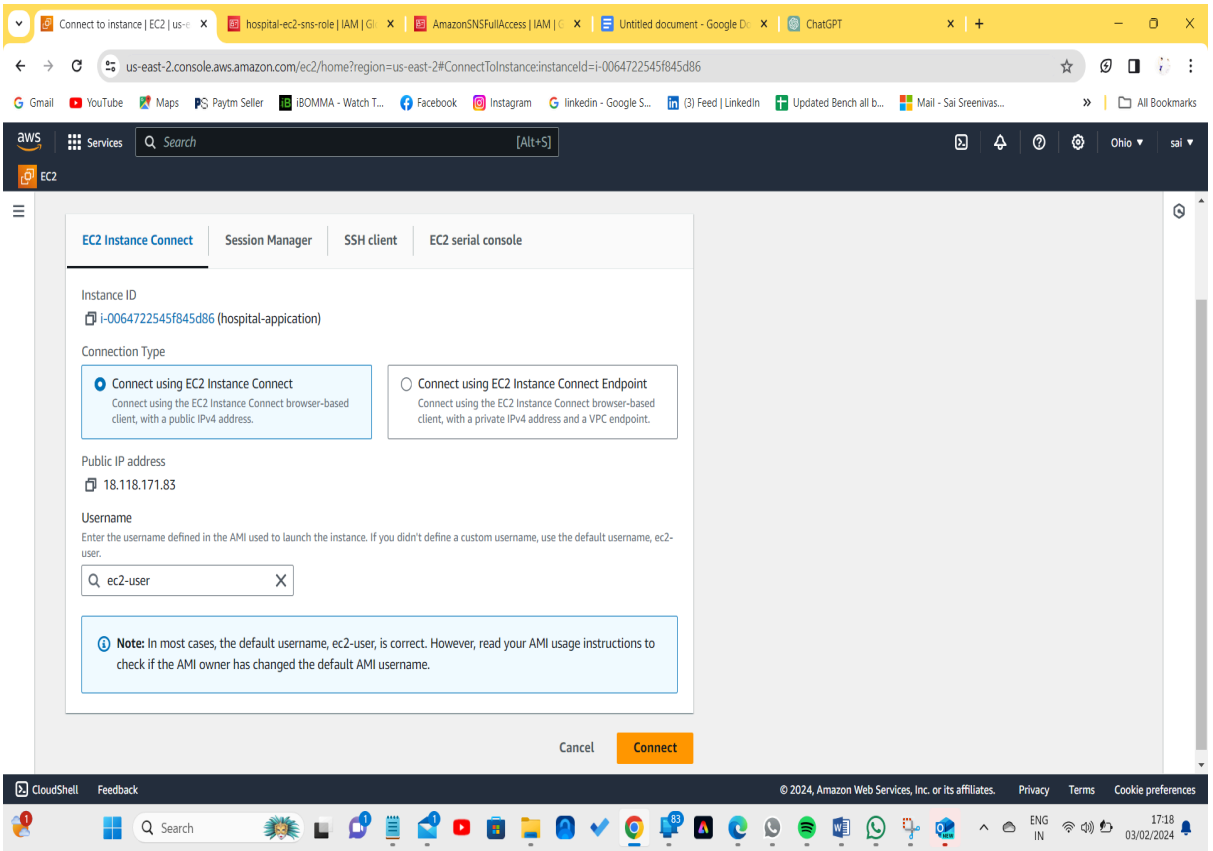
MODIFY THE IAM ROLE UPDATE IT..



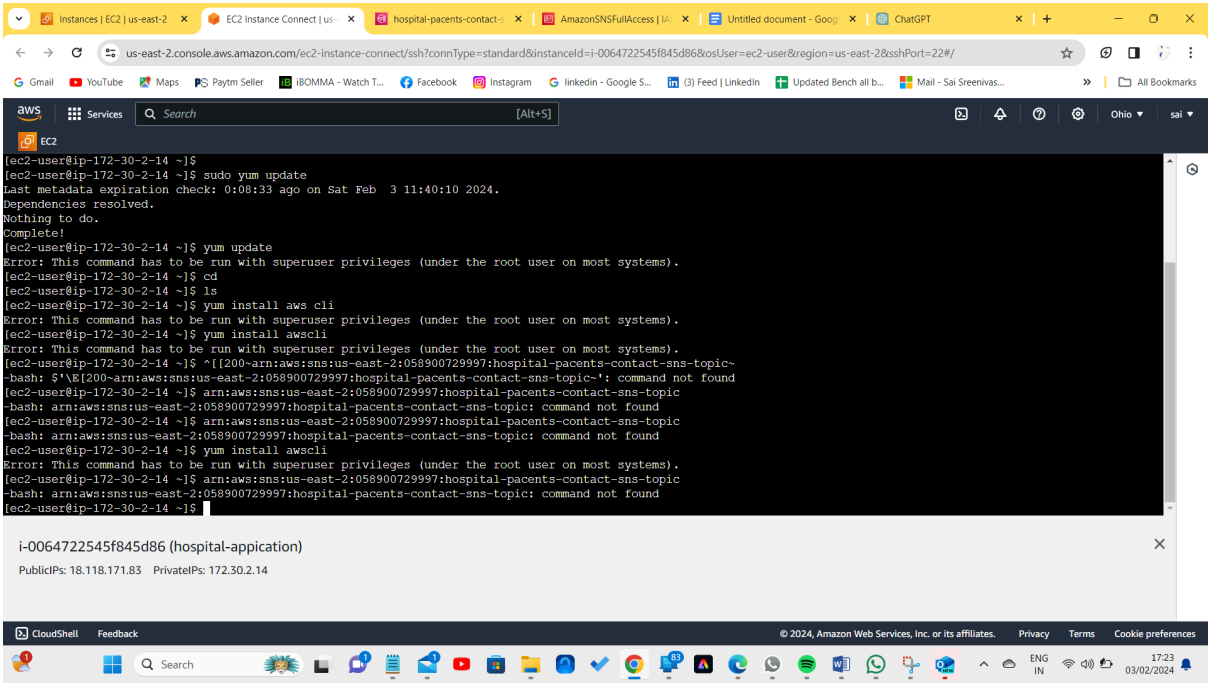
SUCCESSFULLY UPDATED THE IAM ROLE AND ATTACH THE EC2..



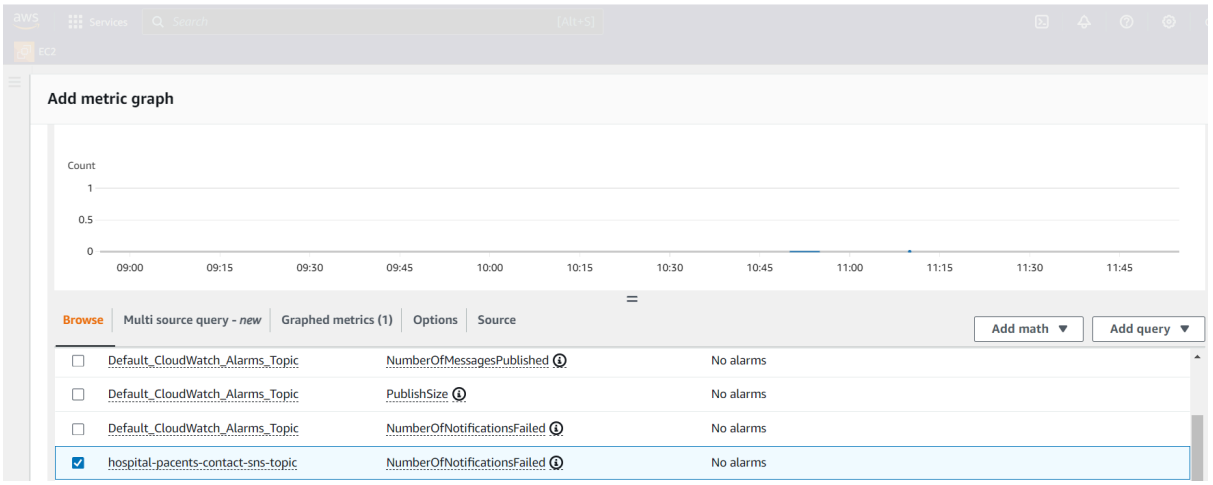
CLICK TO CONNECT THE EC2INSTANCE CLICK THE CONNECT..



CONNECT THE AWS CONSOLE AND SEE THE SNS ARN DETAILS…



AND FINALLY OPEN THE CLOUDWATCH SEE THE CREATED THE HOSPITAL PATIENTS CONTACT SNS TOPIC



Hence the Solution is provided successfully If we have an Application then we can add these CLI codes to the button action and create a topic for each customer and send the notification privately to a specific user.

END.