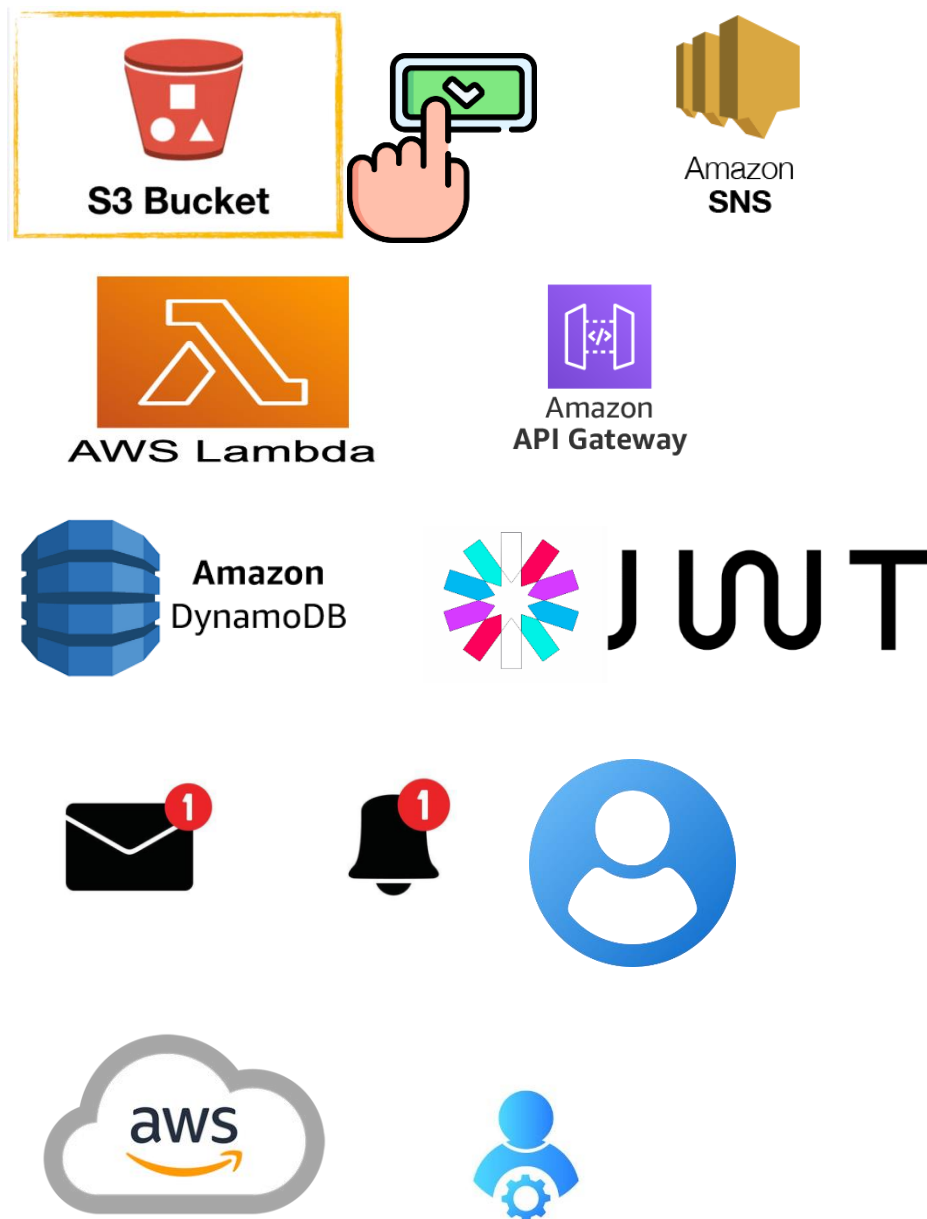


AN USEFUL AWS POWERED APPLICATION FOR EVENT ANNOUNCEMENT ALERTS

EVENT ANNOUNCEMENT SYTEM USING AWS AND ITS SERVICES

AWS SERVICES USED AND OTHERS:

1.



Amazon S3:

Used to host static frontend files and serve the website over the internet.

API Gateway:

Acts as the entry point for HTTP requests, routing them to the appropriate backend service.

AWS Lambda:

Handles backend logic and processing when triggered by API Gateway.

Amazon DynamoDB:

Stores structured data with low latency and high availability.

Amazon SNS:

Sends notifications (e.g., emails) to subscribers when triggered by backend events.

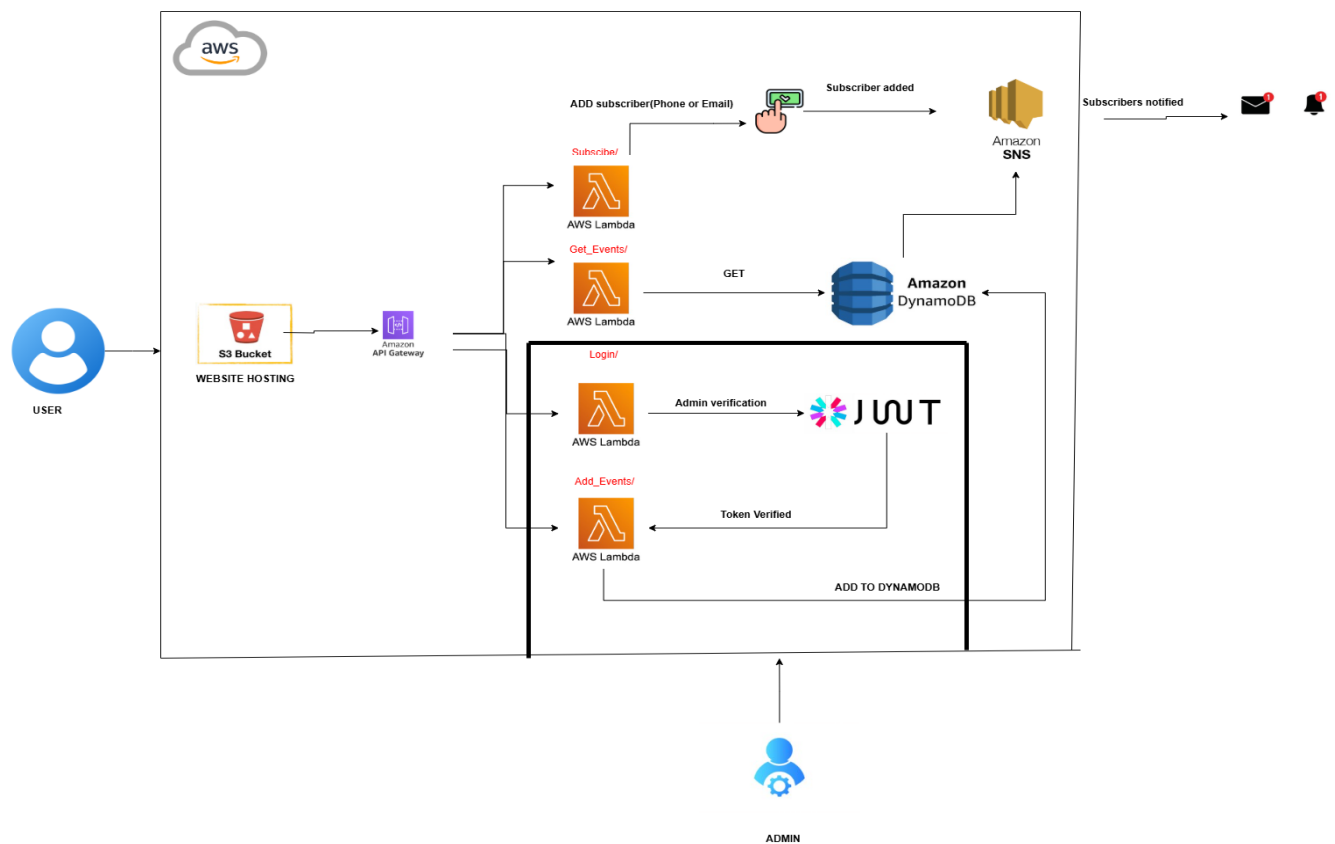
IAM Roles:

Manage permissions and securely allow services like Lambda to access DynamoDB and SNS.

JWT:

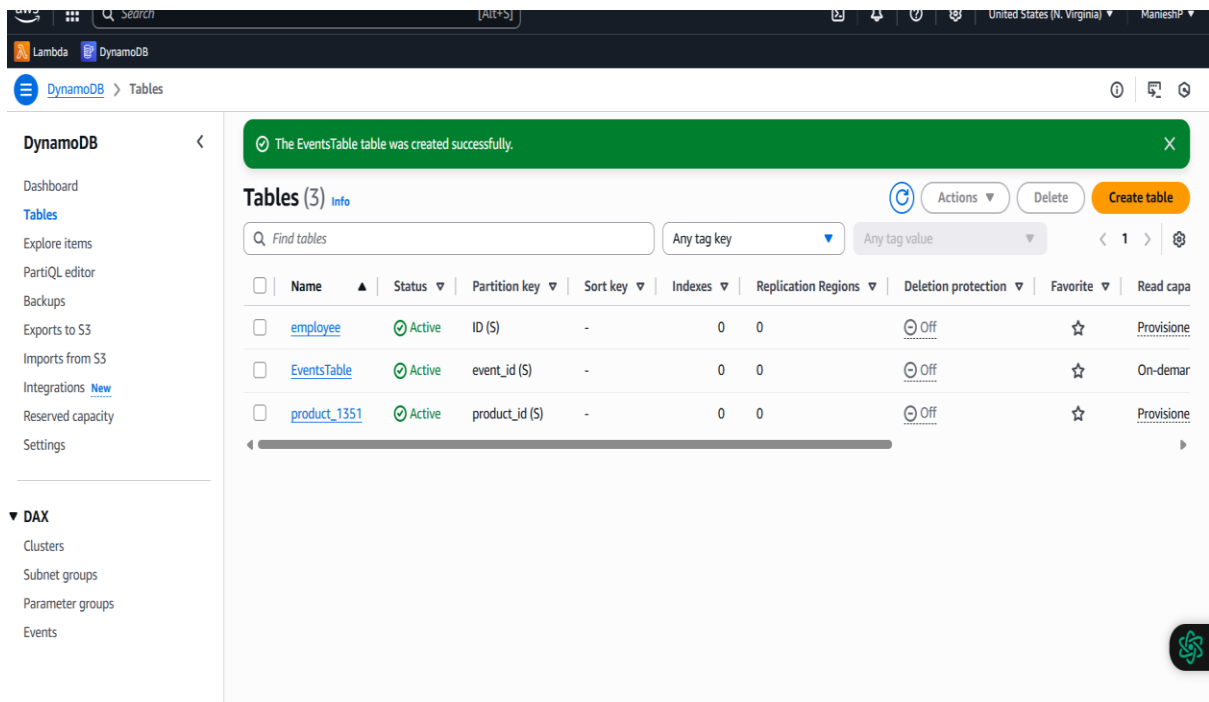
Used for verifying user identity and controlling access to protected resources.

Architecture diagram:

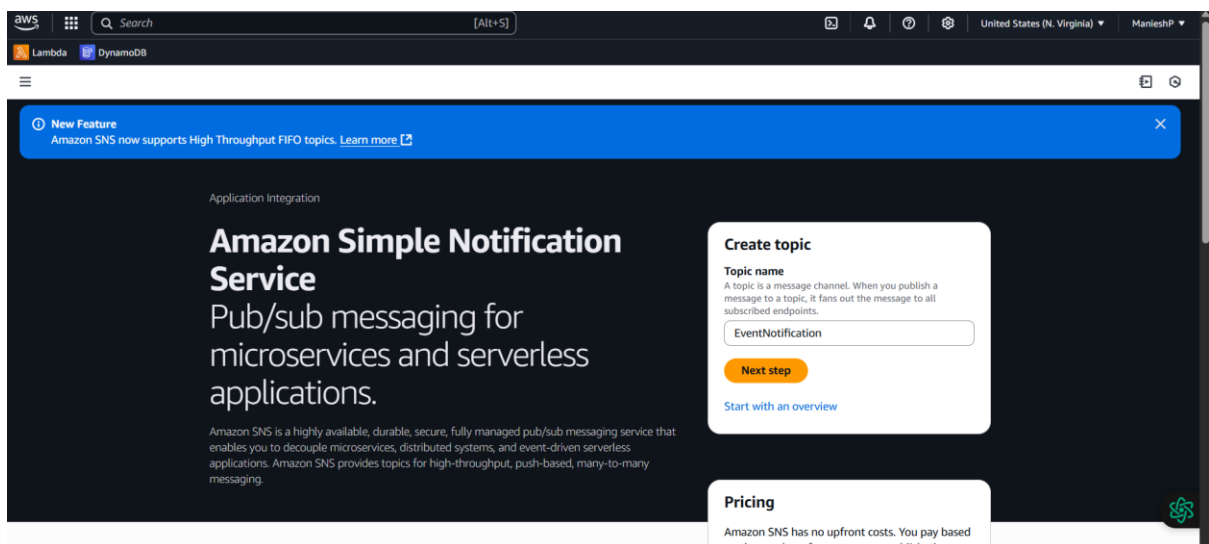


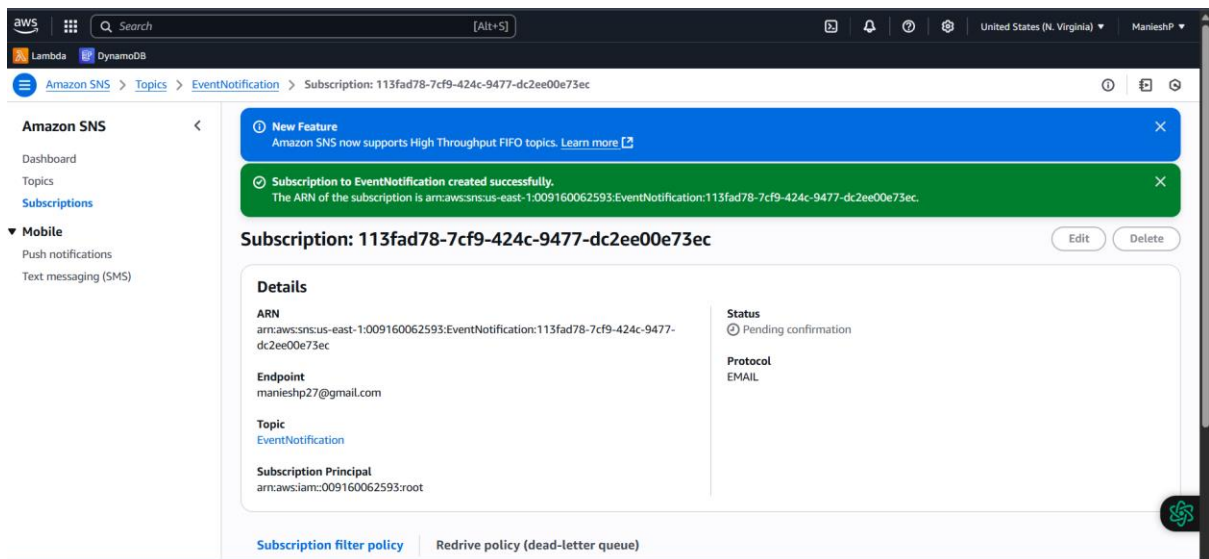
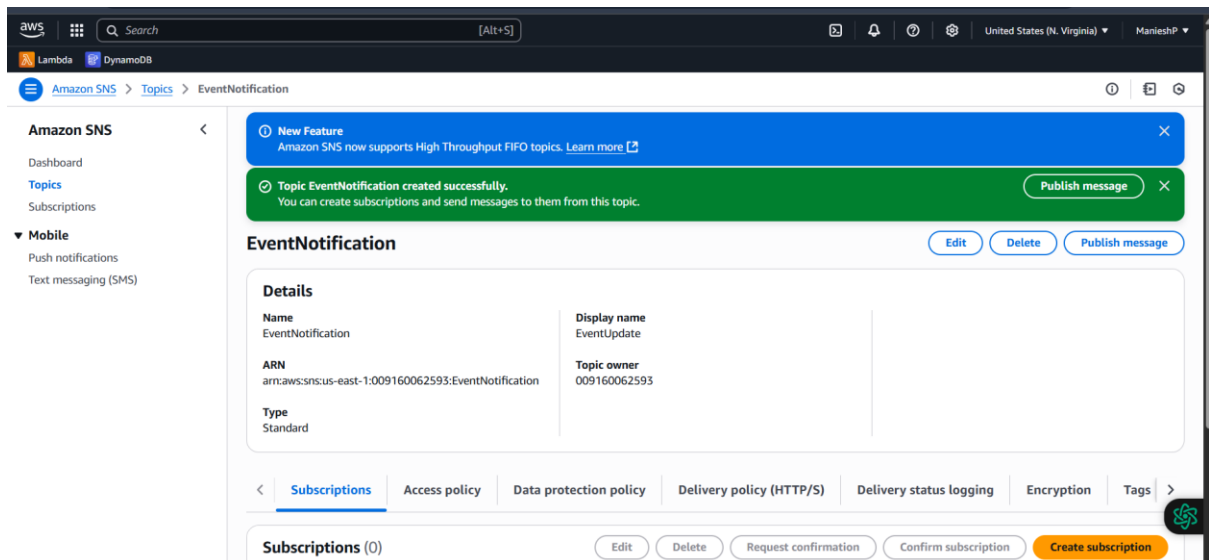
Creation of DynamoDB table:

event_id acts as a partition key:



Creation of topic for saving subscribers information:

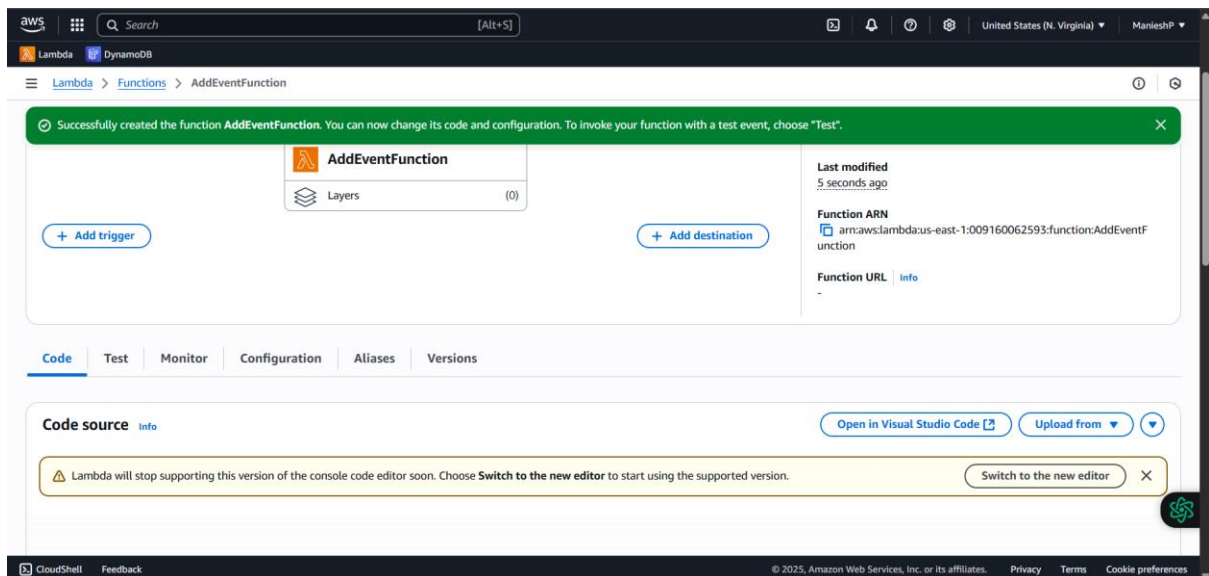
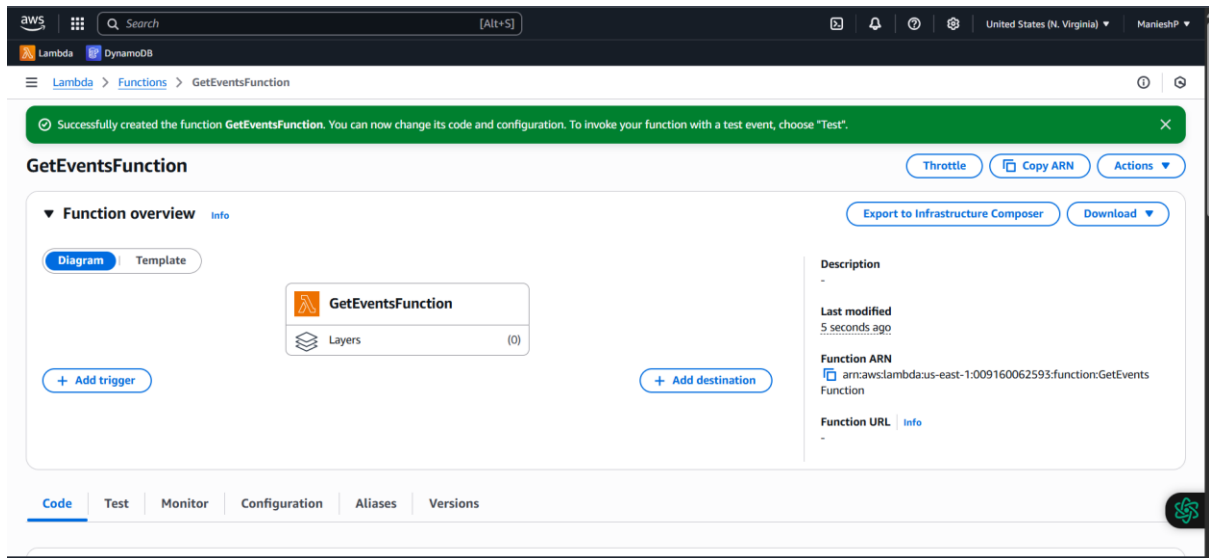




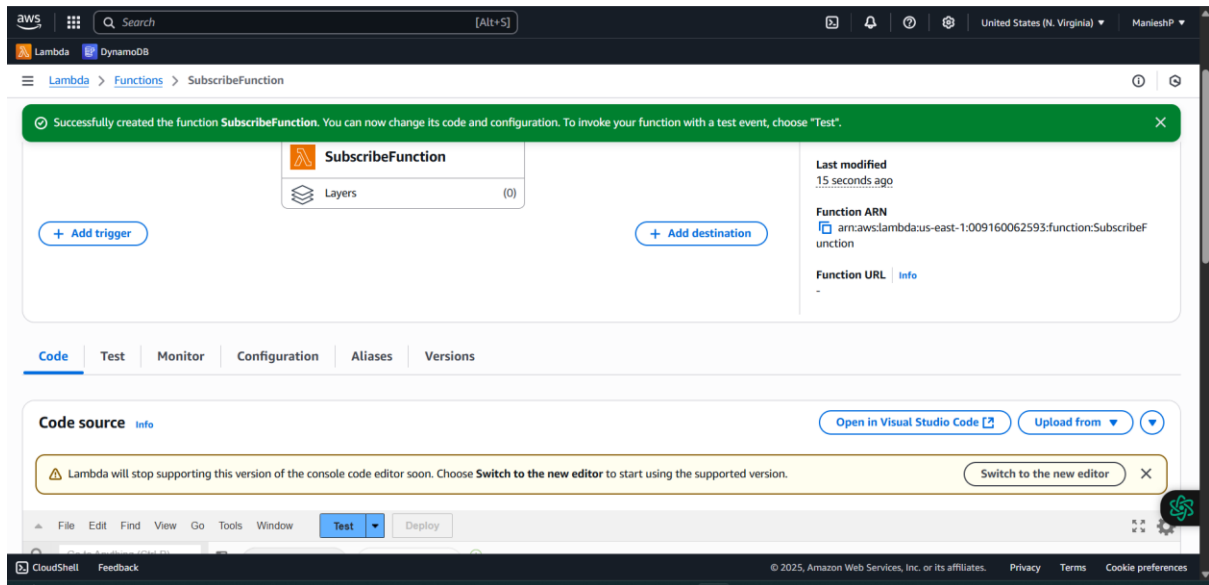
ARN:

arn:aws:sns:us-east-1:009160062593:EventNotification

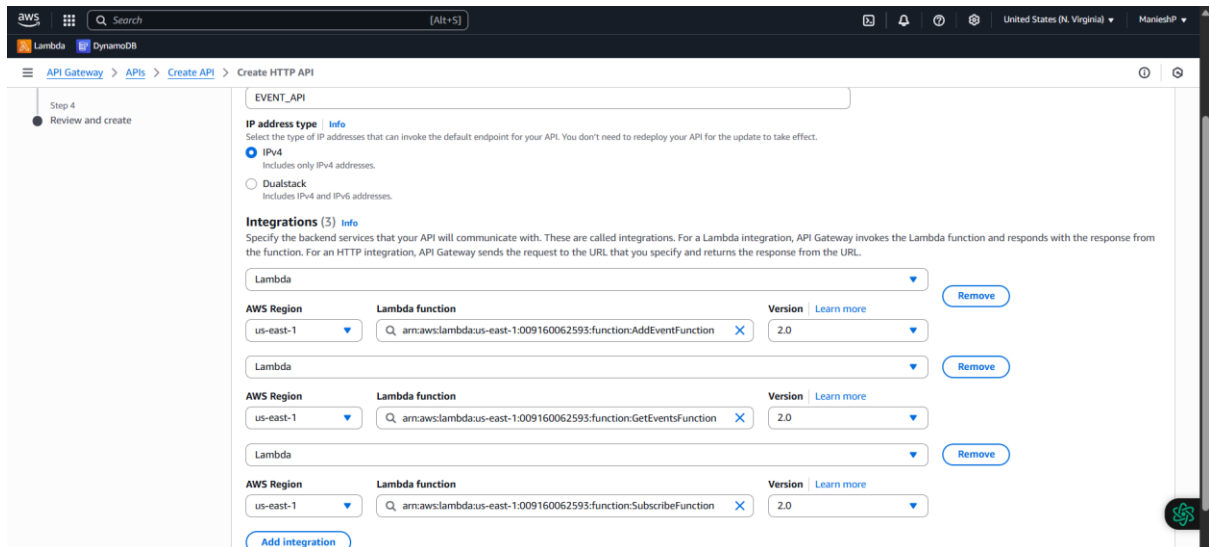
Get_events lambda function retrieves events from Dynamo table:

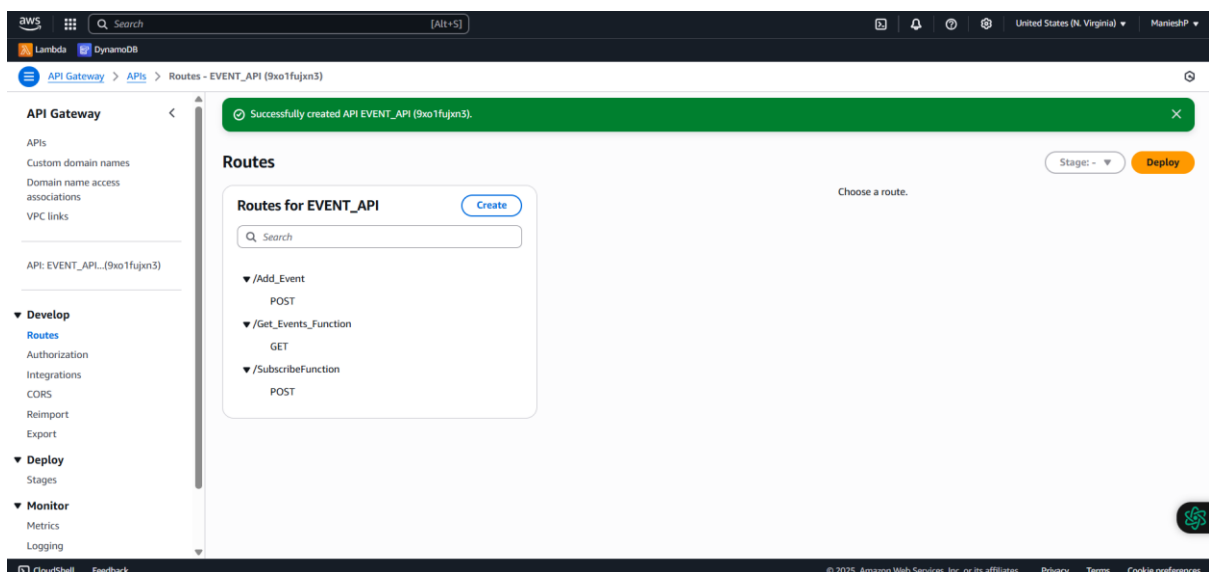
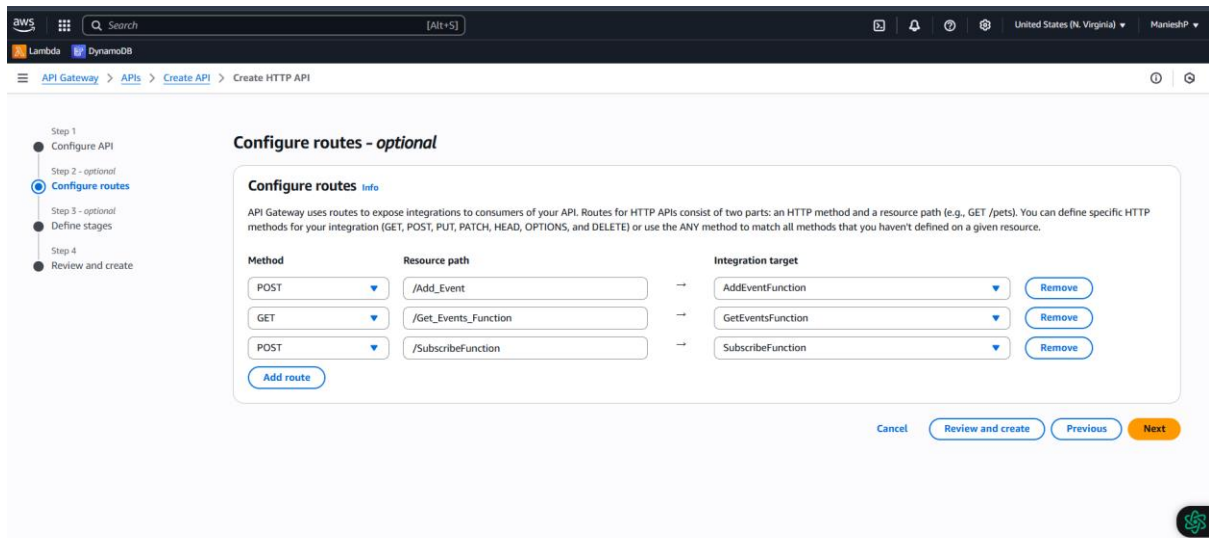
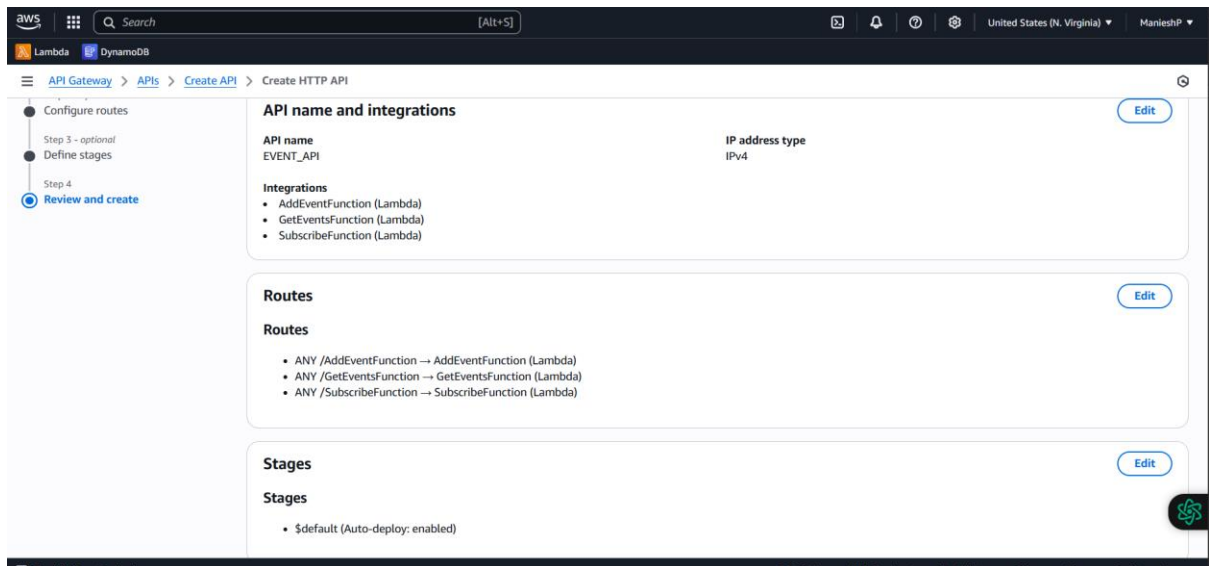


Subscribe function facilitates new subscriber add on through confirmation:

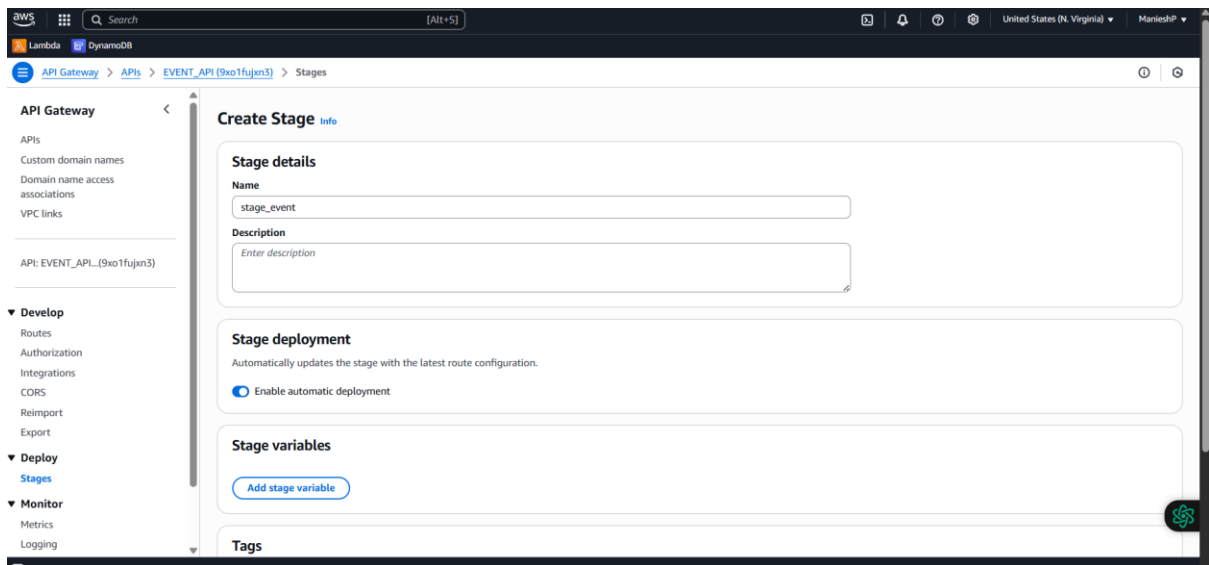


Addition of lambda function routes into the API (Event_API):

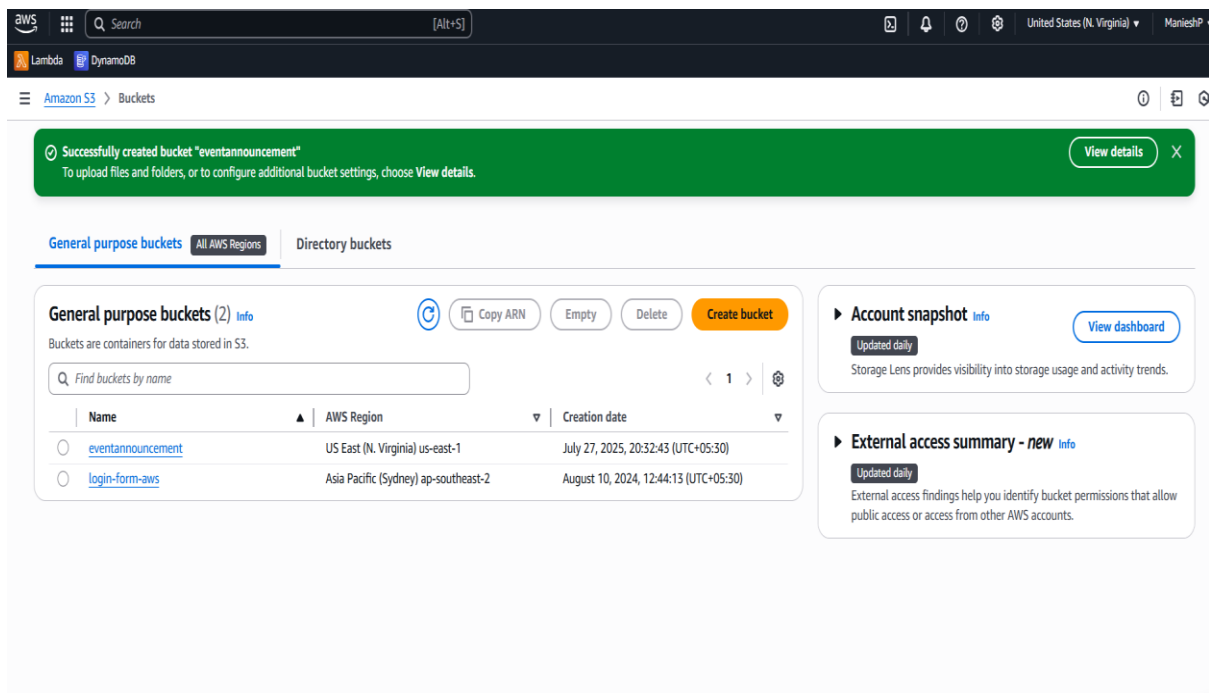




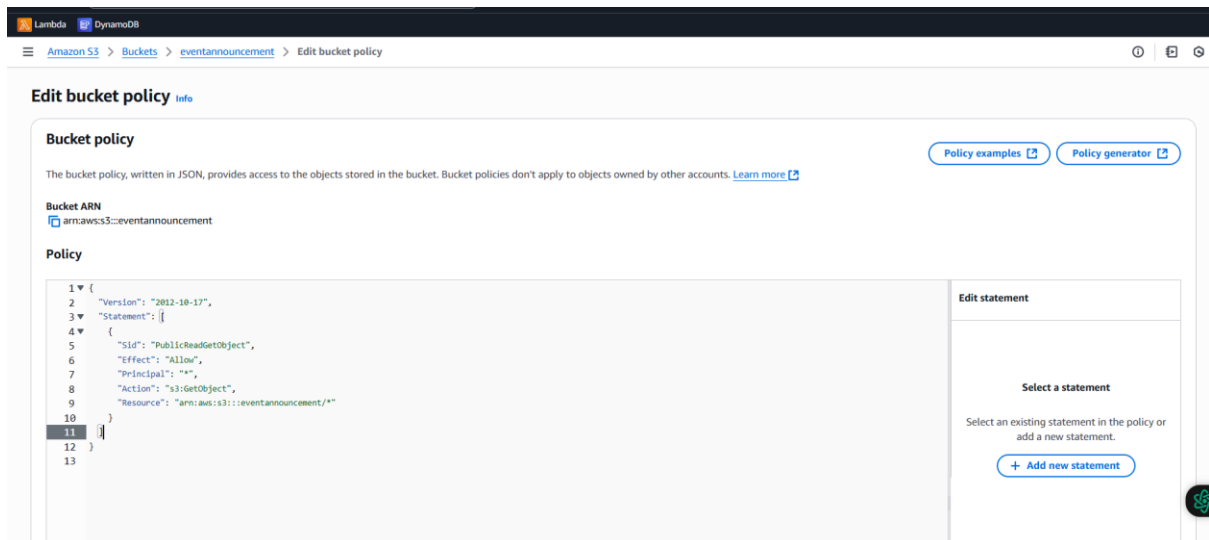
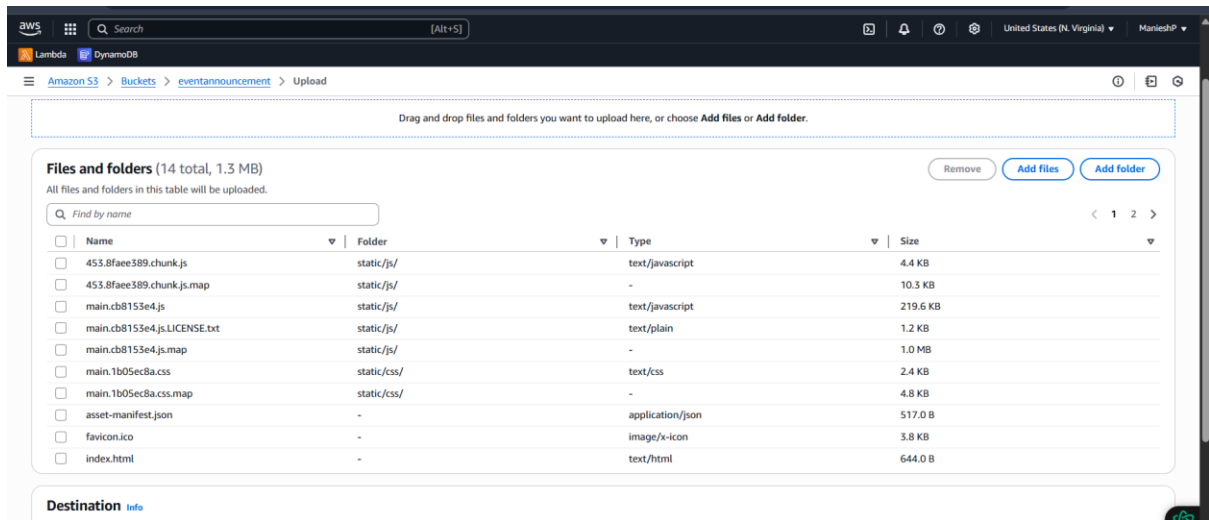
Creation of stage ensures stage of development and deployment of application:



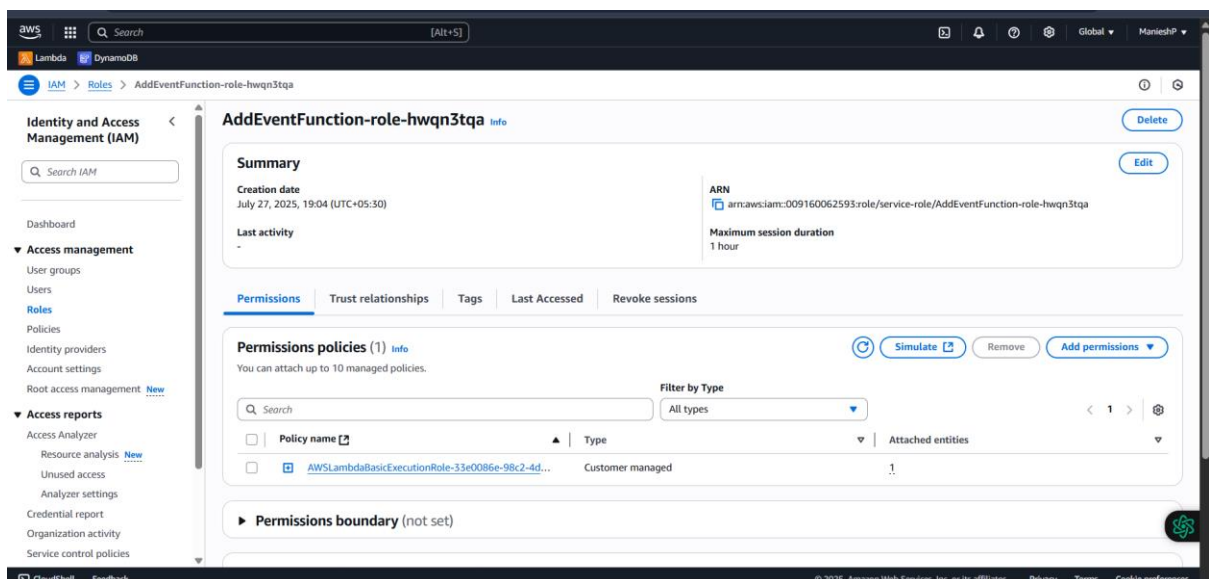
https://9xo1fujxn3.execute-api.us-east-1.amazonaws.com/stage_event

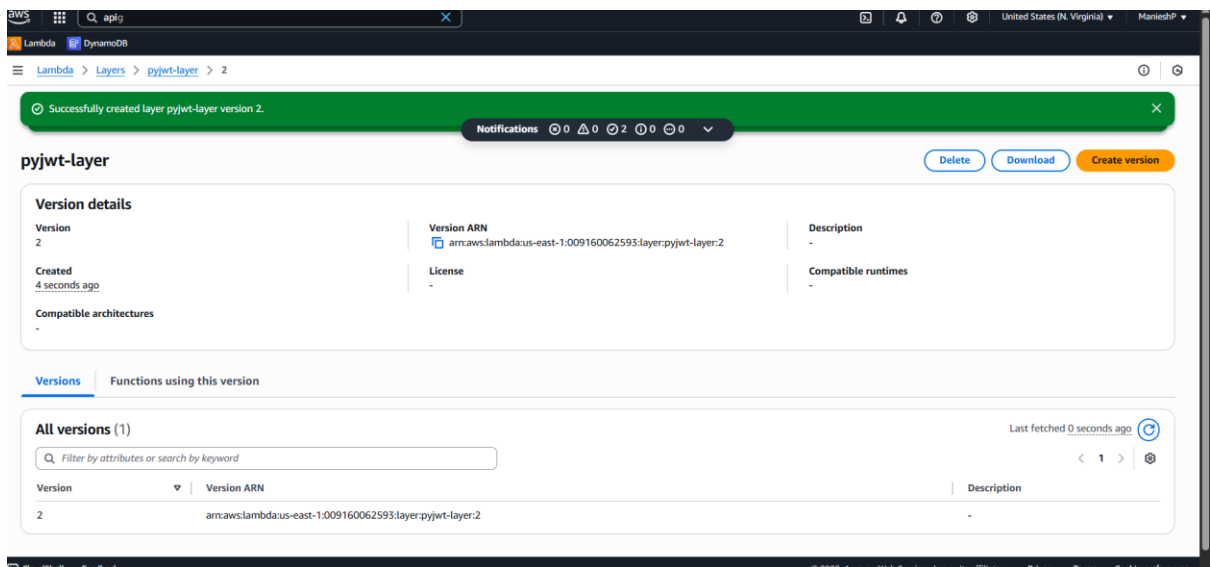
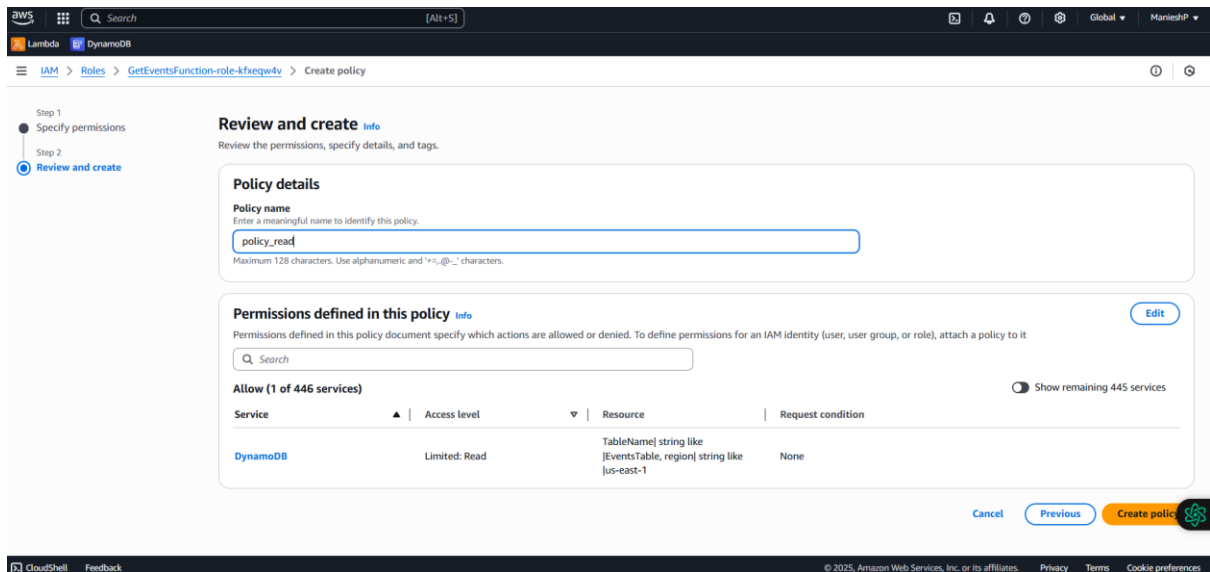


Uploading frontend code to S3 bucket:

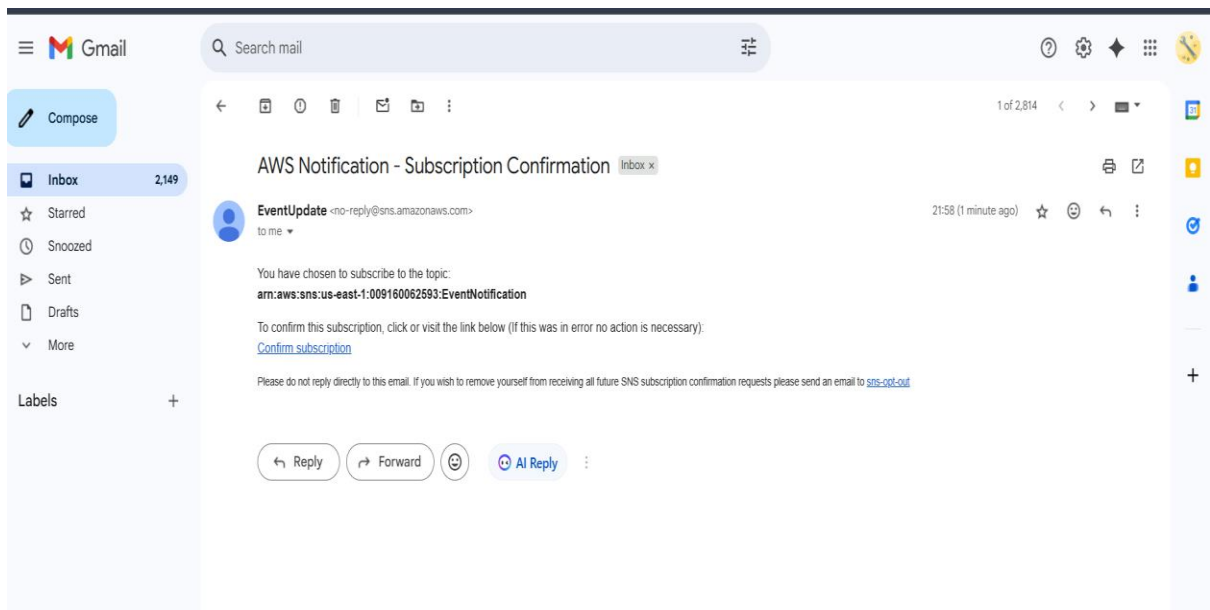


Addition of IAM roles to the Add event function to be invoked only when admin logs in:





Working:





Simple Notification Service

Subscription confirmed!

You have successfully subscribed.

Your subscription's id is:
arn:aws:sns:us-east-1:009160062593:EventNotification:f4fe9978-caa7-4bf6-be90-42ab9b2a782e

If it was not your intention to subscribe, [click here to unsubscribe](#).

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Text messaging (SMS)

Details

Name

EventNotification

ARN

arn:aws:sns:us-east-1:009160062593:EventNotification

Type

Standard

Display name

EventUpdate

Topic owner

009160062593

Subscriptions

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Subscriptions (4)

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ID	Endpoint	Status	Protocol
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f4fe9978-caa7-4bf6-be90-42ab9b2a782e	manishp27@gmail.com	Confirmed	EMAIL
Pending confirmation	manish.pukhraj2022@vitstudent.ac.in	Pending confirmation	EMAIL
Pending confirmation	man123@gmail.com	Pending confirmation	EMAIL

CloudShell

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