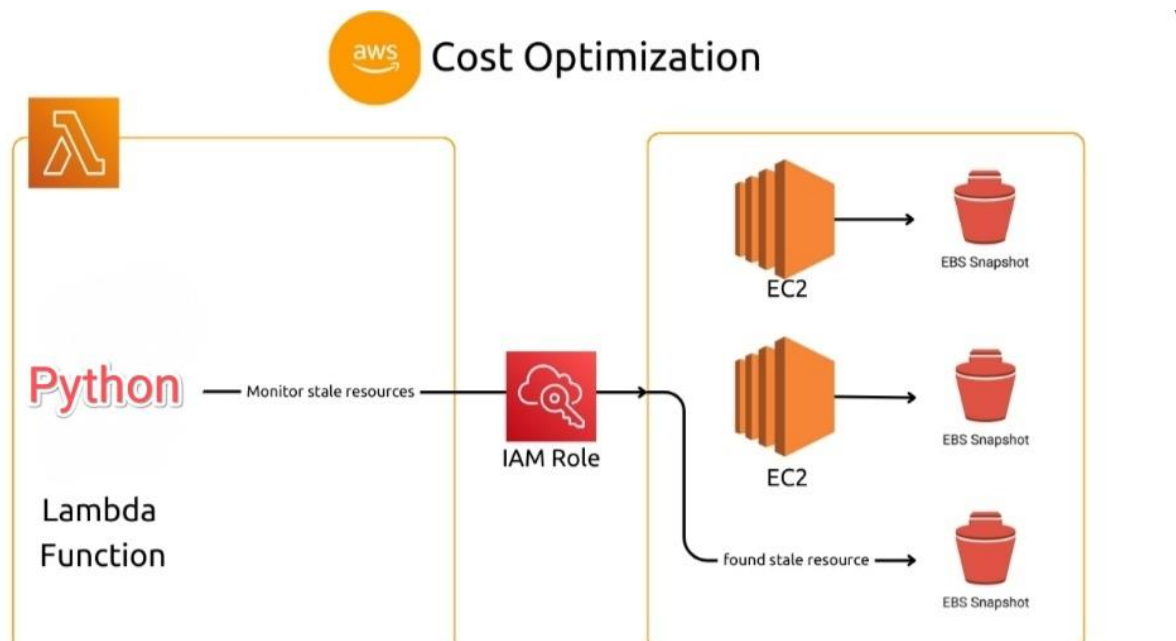# Cost-Effective Snapshot Management with AWS Lambda

In this project, I developed a Python-based AWS Lambda function to optimize cloud costs by automatically deleting snapshots of volumes and EC2 instances that are no longer in use.


Key highlights of the project:

• Efficient Cloud Management: Automates the cleanup of unused snapshots to ensure cost-effective storage management.

• Optimized Execution Time: Adjusted the default code execution time from 3 seconds to 5 seconds to prevent errors, carefully balancing functionality and cost. Increasing the execution time beyond 5 seconds would have resulted in higher AWS charges, so this decision prioritized cost efficiency.

• Proper Permissions: Configured the necessary IAM permissions for the Lambda function to perform the required actions securely.
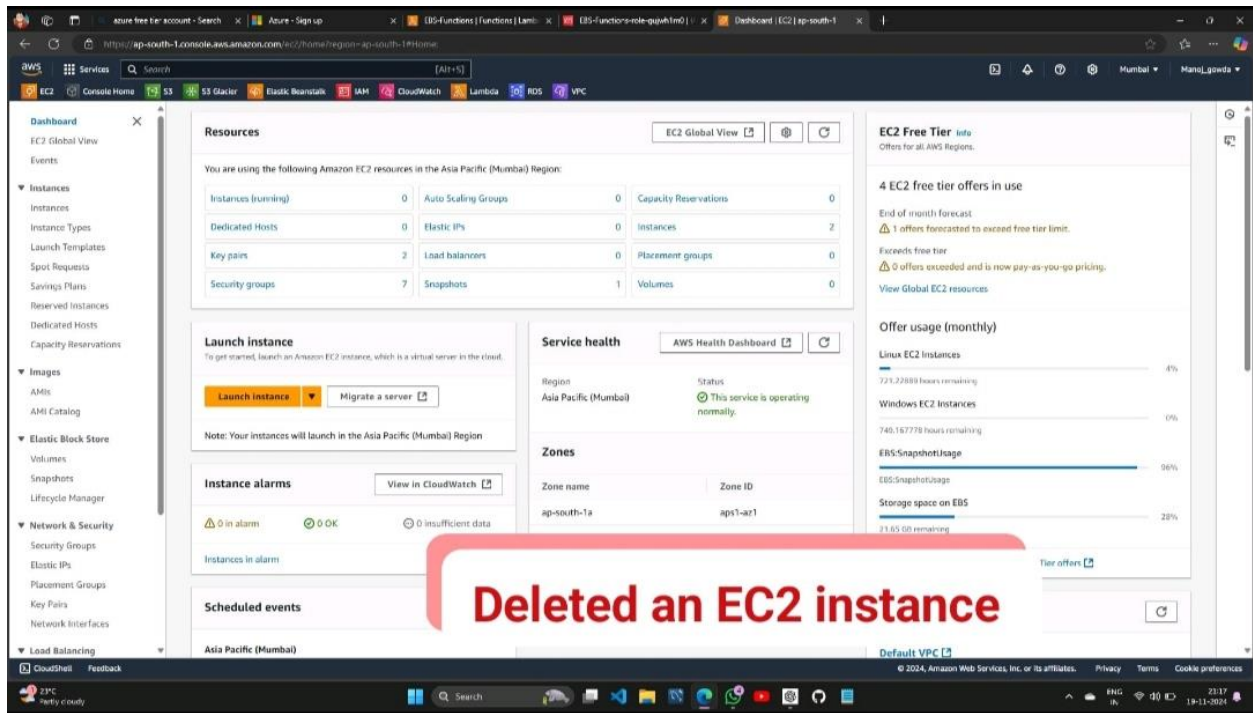
This project demonstrates the importance of cost optimization in cloud infrastructure while leveraging AWS services effectively.
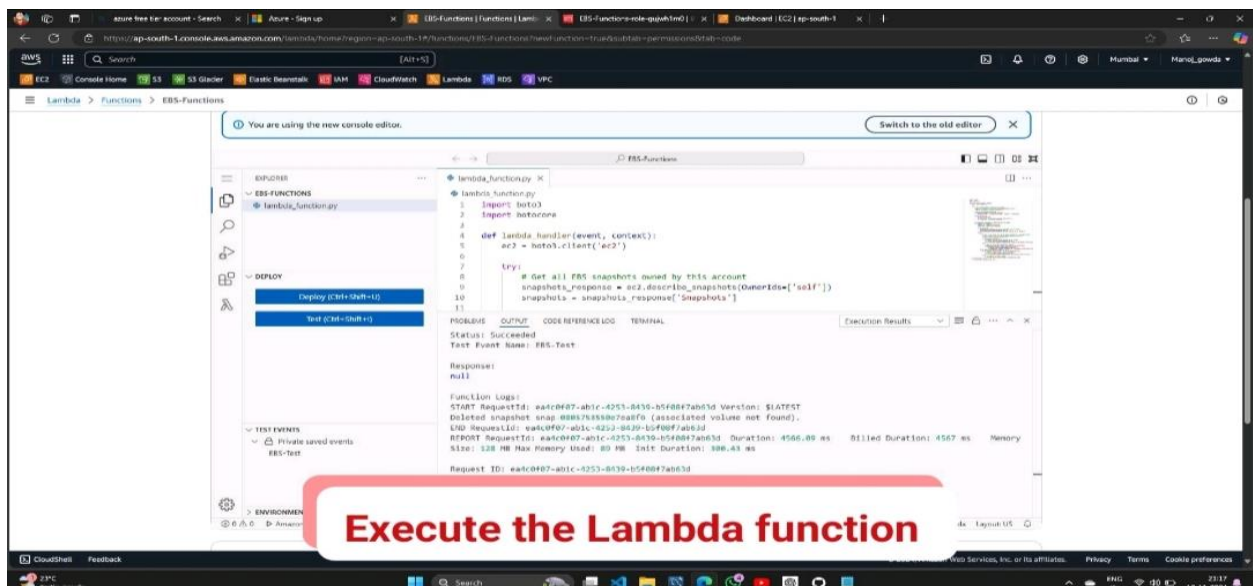
Screenshots :

1.Created a snapshot using EC2
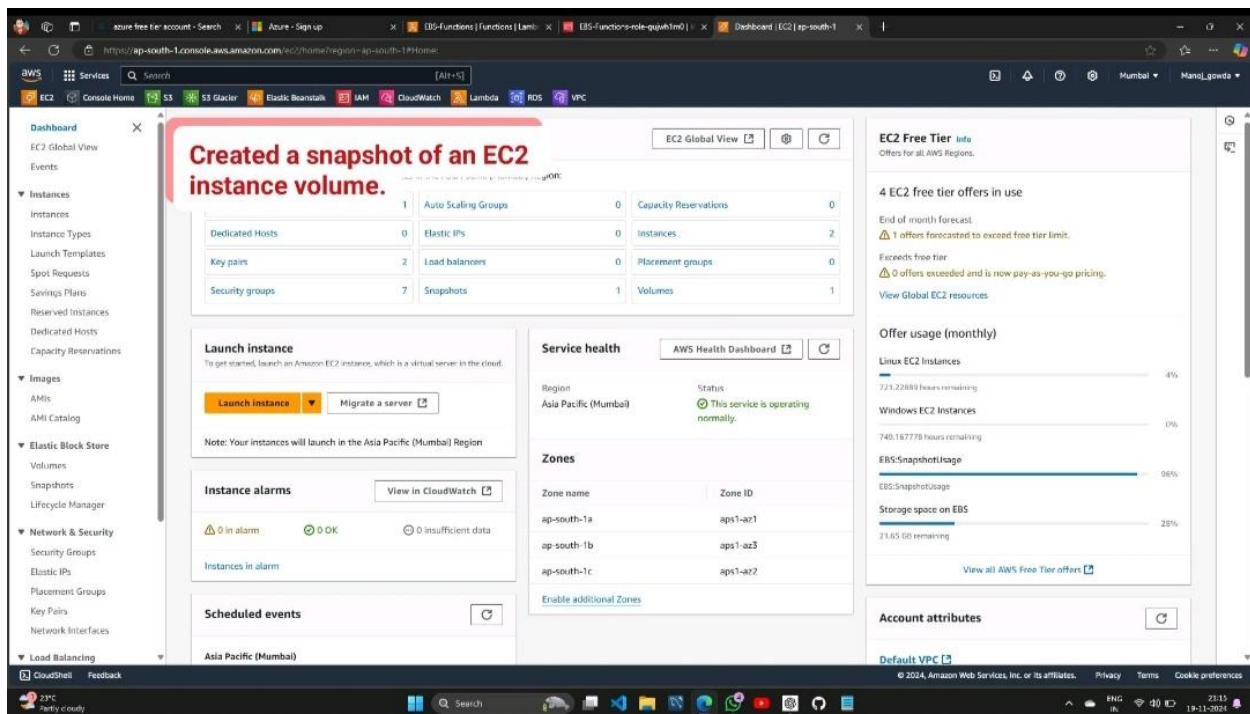
2. Execute the Lambda function

Deleted an EC2 instance

3. Lambda function deleted the snapshot

Execute the Lambda function

4. Deleted an EC2 instance