CSC - PROJECT

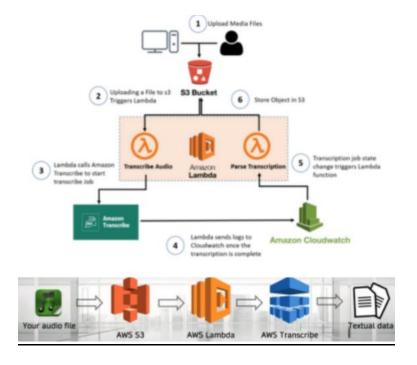
Serverless Speech-to-Text with AWS Transcribe and S3 Event Trigger using Lambda and CloudWatch.

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Section: 35

Architectural Overview:



OVERVIEW OF THE SERVICES:

1).AWS S3 (Simple Storage Service):

Amazon S3, a scalable object storage service from Amazon Web Services, enables users to store and access data of any size securely from anywhere on the internet. Its durability, security features, and cost-effectiveness make it suitable for diverse applications such as data backup, content delivery, and hosting applications.

2).AWS Lambda:

AWS Lambda, a serverless computing service by Amazon Web Services, empowers developers to execute code without dealing with server management. Users pay for the compute time they consume, and Lambda automatically scales to handle varying workloads. It supports multiple

programming languages and is ideal for handling unpredictable traffic.

3).AWS CloudWatch:

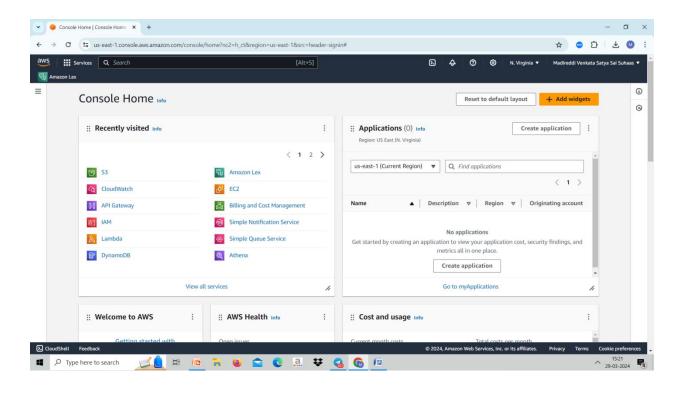
AWS CloudWatch, a monitoring and observability service provided by Amazon Web Services, enables users to gather metrics, log files, and set alarms for real-time monitoring of their AWS resources and applications. It offers insights into system performance, resource usage, and operational status, aiding in efficient resource management.

4).AWS Transcribe:

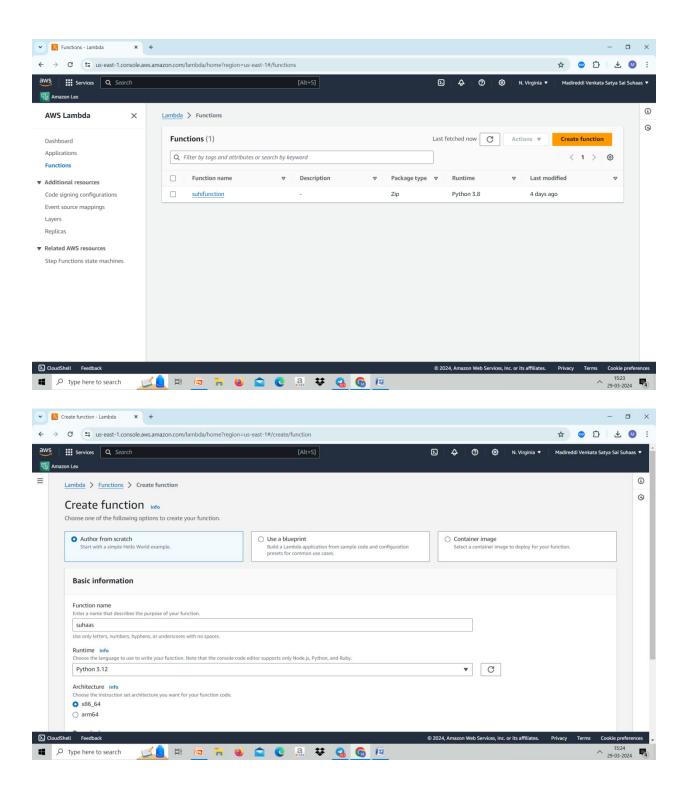
AWS Transcribe, a service offered by Amazon Web Services, converts speech into text accurately using automatic speech recognition technology. It supports various audio formats and languages, making it valuable for tasks like transcribing calls,

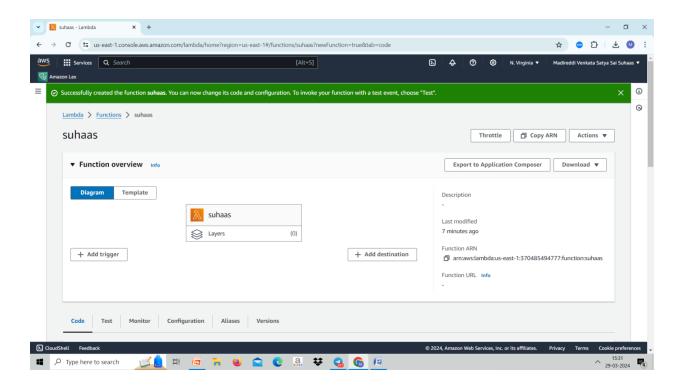
creating video subtitles, and extracting information from recorded meetings or lectures.

STEP-1: Go to AWS Management Console



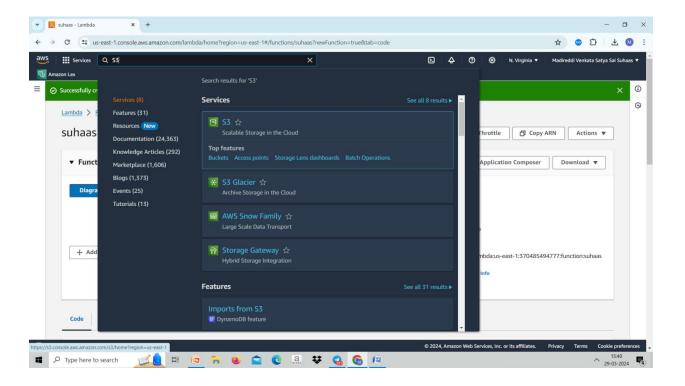
STEP-2: Go to AWS LAMBDA and click on create function

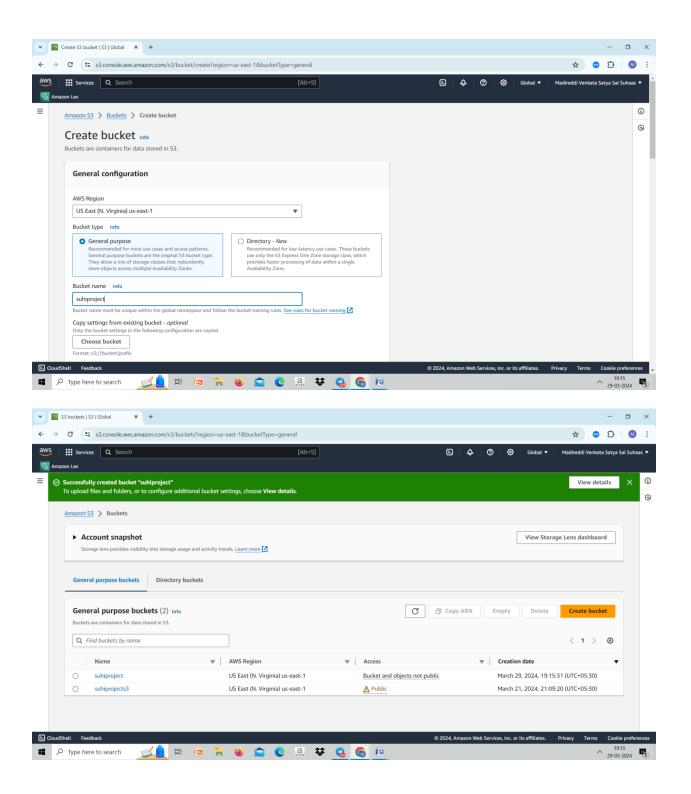


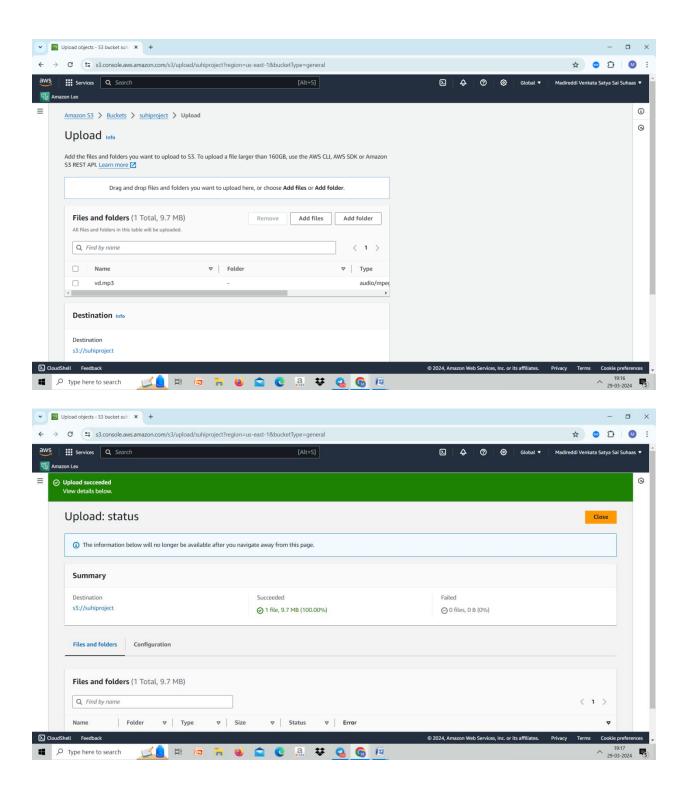


STEP-3:

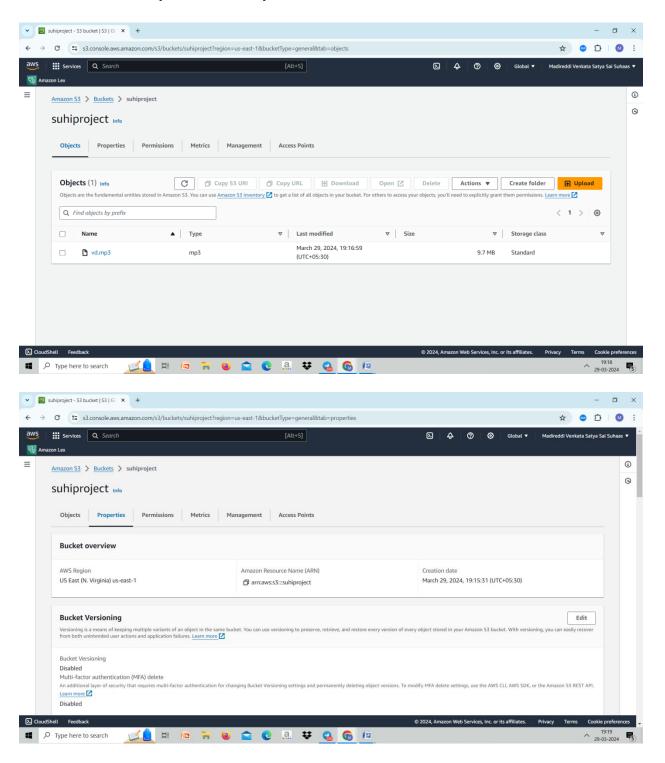
Go to S3 and create an S3 bucket



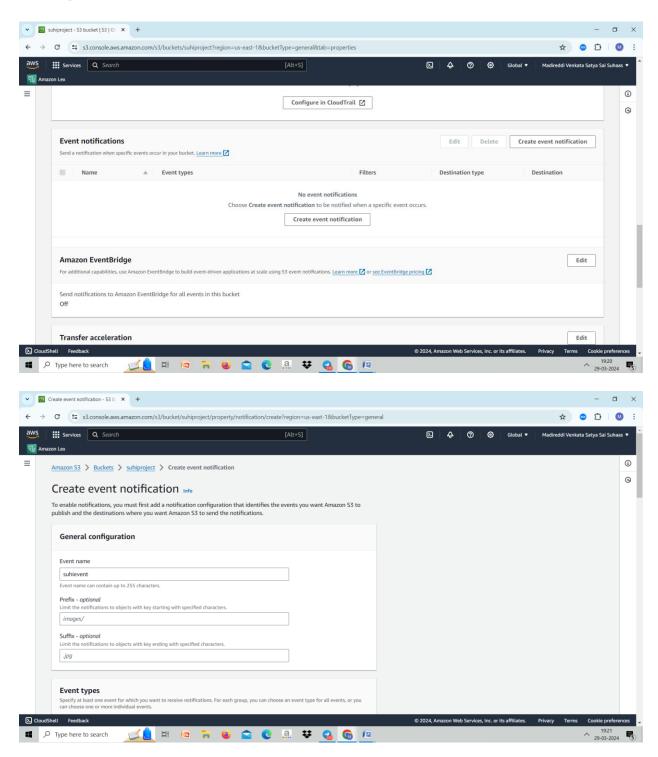


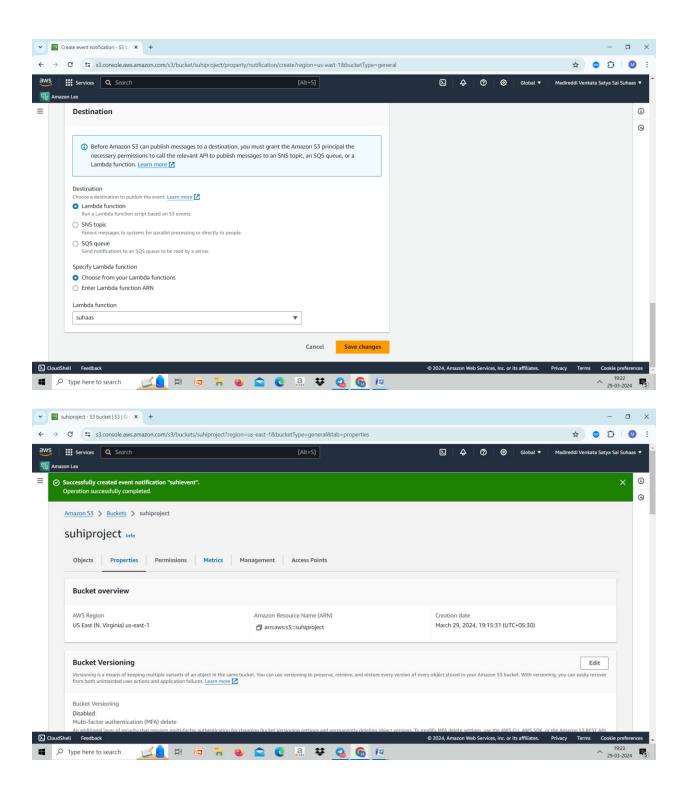


STEP – 4: Upload mp3 file in the S3 bucket

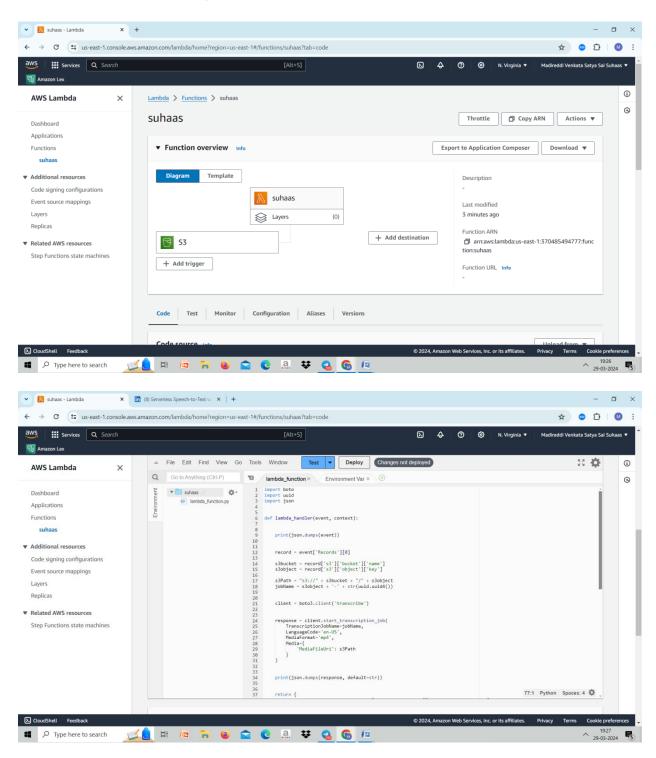


STEP-5: Click on create event notification and integrate with the lambda service

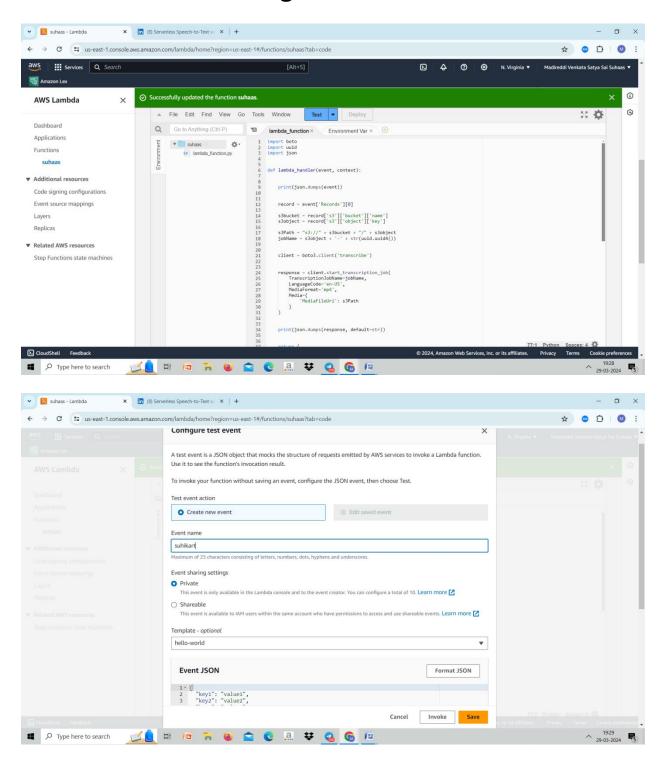


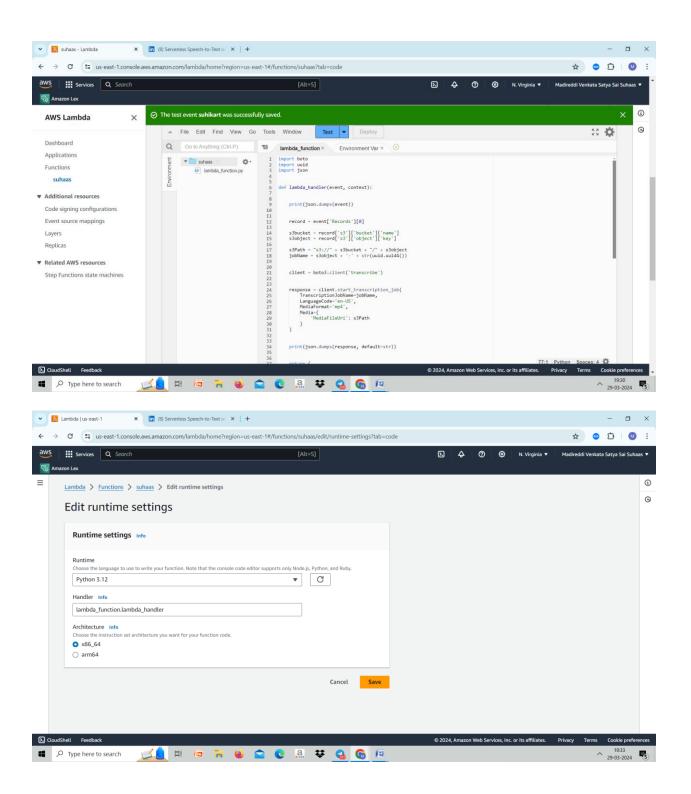


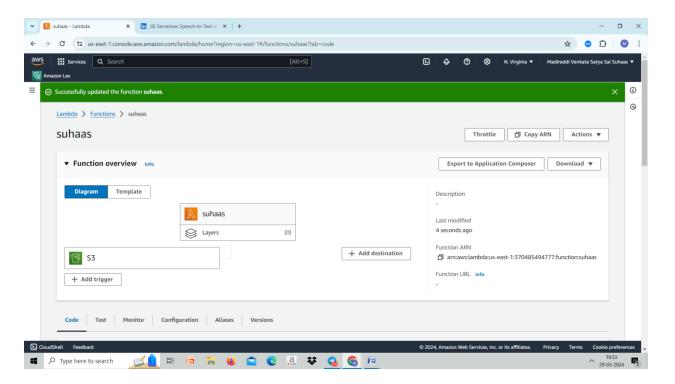
STEP-6: Now you can observe the s3 bucket in the lambda service you created



STEP-7: Click on configure test







STEP-8: Here the Cloud Watch logs to confirm that the lambda function was triggered and started a transcription job in the AWS Transcribe

