

## CSC SKILL – 08

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Create a role, with required permissions:

The screenshot shows the AWS IAM console interface. A green banner at the top indicates 'Policy was successfully attached to role.' The main content area displays the details for the role 'vamshi-basic-accesses', which allows Lambda functions to call AWS services on your behalf. The 'Summary' tab shows the role's creation date (April 02, 2023, 18:47 UTC+05:30) and its ARN (arn:aws:iam:313758719004:role/vamshi-basic-accesses). The 'Permissions' tab is active, showing a list of 10 managed policies attached to the role. The policies are:

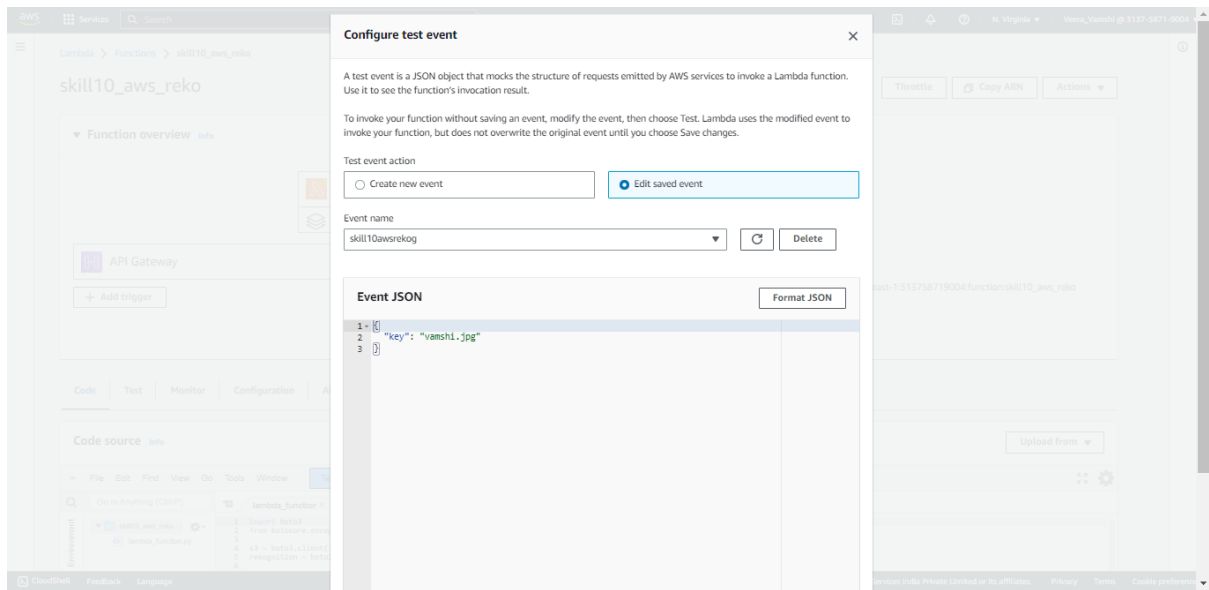
Policy name	Type	Description
AmazonSQSFullAccess	AWS managed	Provides full access to Amazon SQS via the AWS Management Console.
AmazonS3FullAccess	AWS managed	Provides full access to all buckets via the AWS Management Console.
AmazonDynamoDBFullAccess	AWS managed	Provides full access to Amazon DynamoDB via the AWS Management Console.
AmazonRekognitionFullAccess	AWS managed	Access to all Amazon Rekognition APIs
AmazonSESEFullAccess	AWS managed	Provides full access to Amazon SES via the AWS Management Console.
AmazonAPIGatewayAdministrator	AWS managed	Provides full access to create/edit/delete APIs in Amazon API Gateway via the AWS...

Create a Bucket to store images: (make sure image you are adding images):

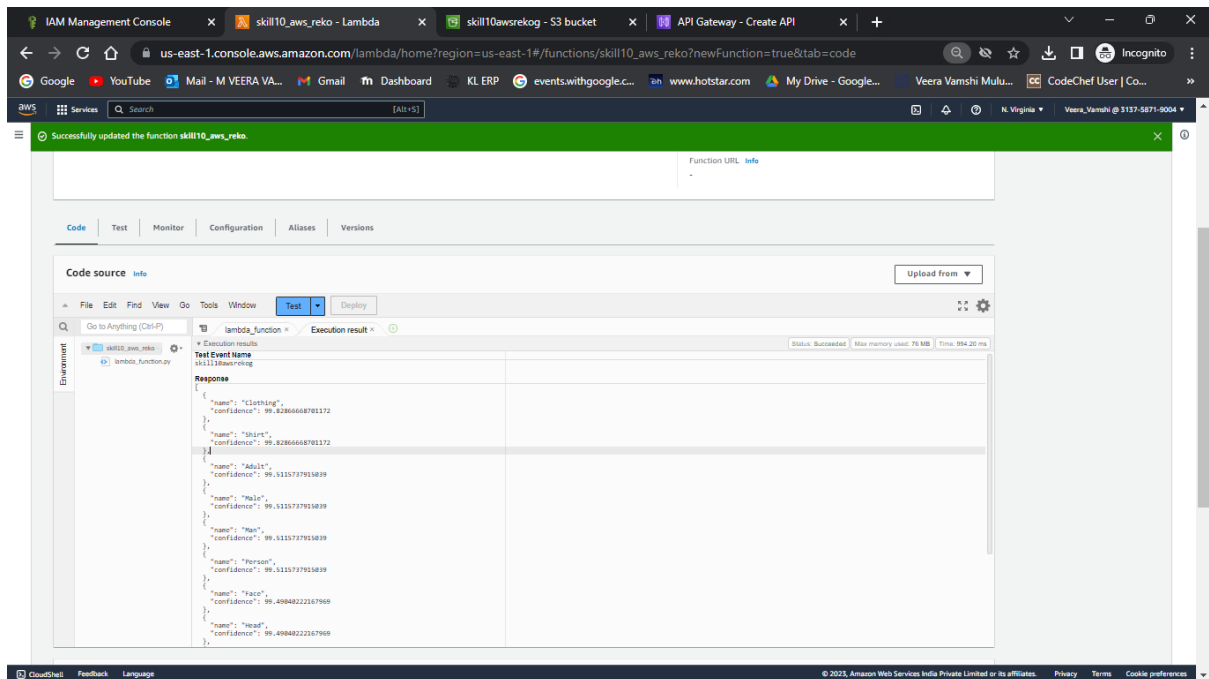
The screenshot shows the Amazon S3 console interface for the bucket 'skill10awsrekog'. The bucket is publicly accessible. The 'Objects' tab is active, showing a list of objects in the bucket. There is one object, 'vamshi.jpg', which is a JPEG file, 240.5 KB in size, and was last modified on April 4, 2023, 15:11:51 (UTC+05:30). The object is stored in the 'Standard' storage class.

Create a Lambda function:

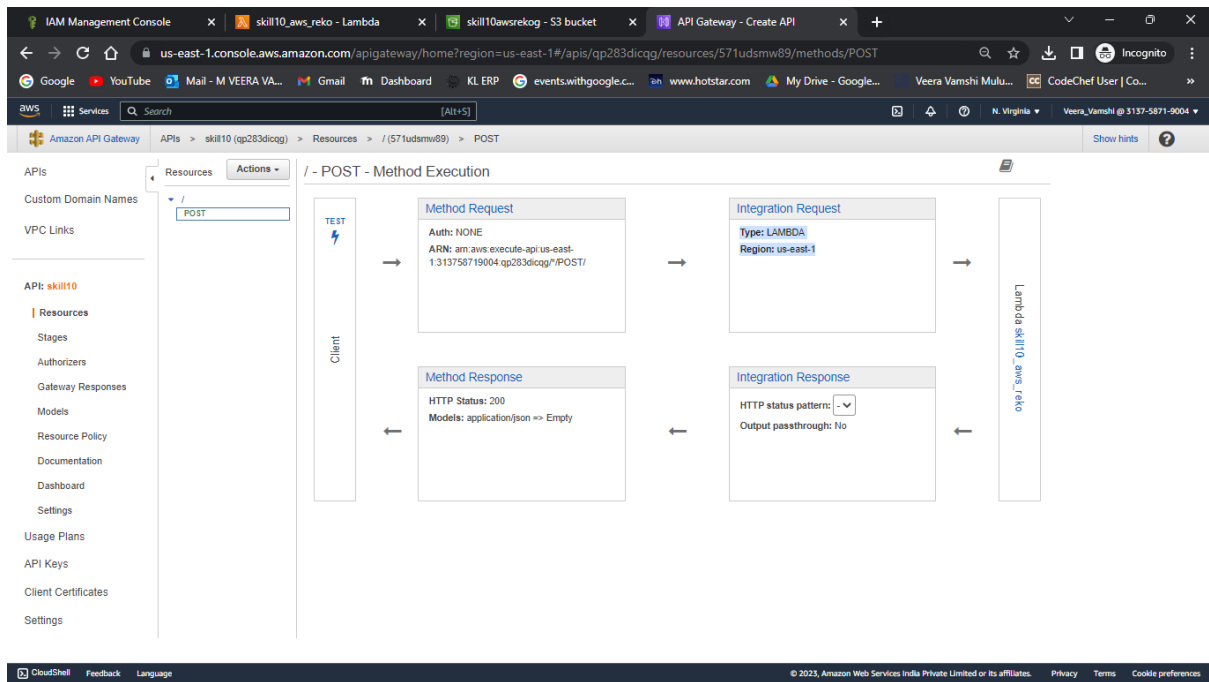




Test it:



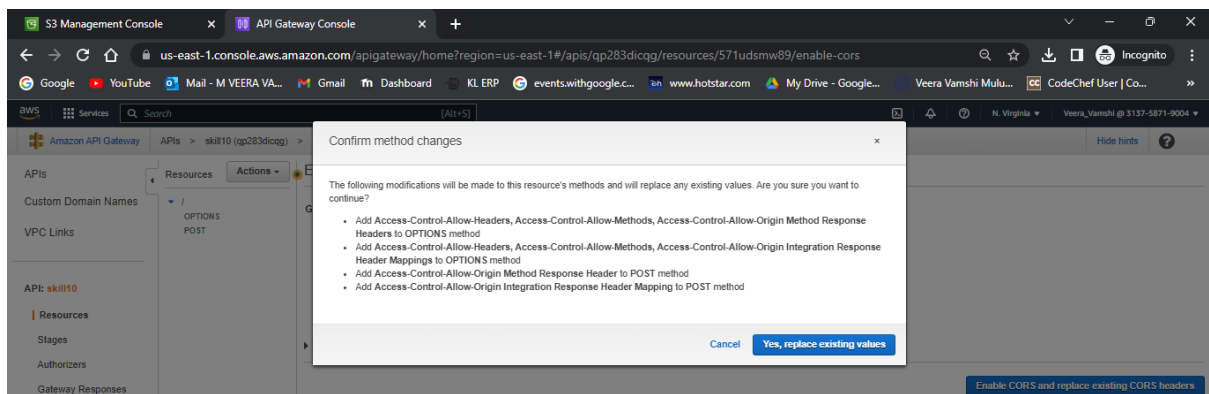
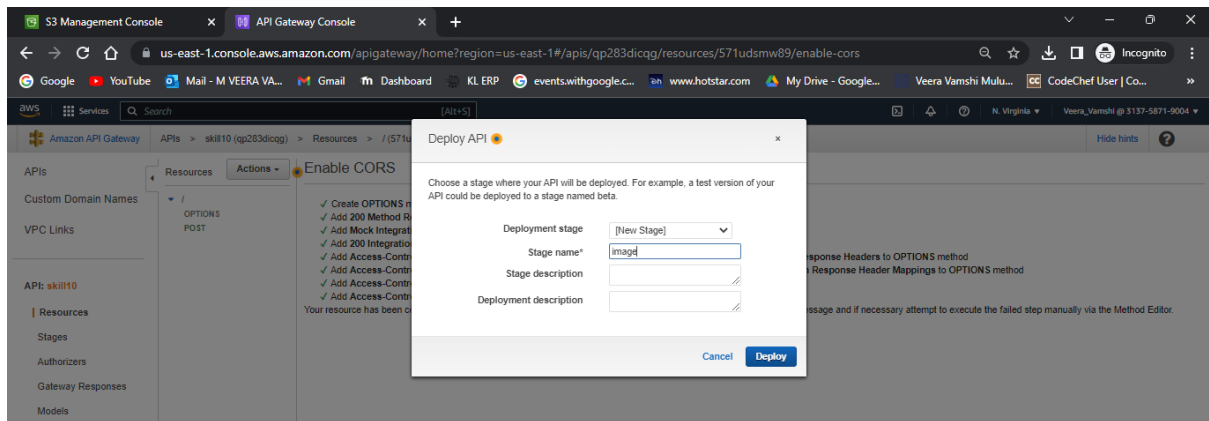
Integrate with API Gateway:



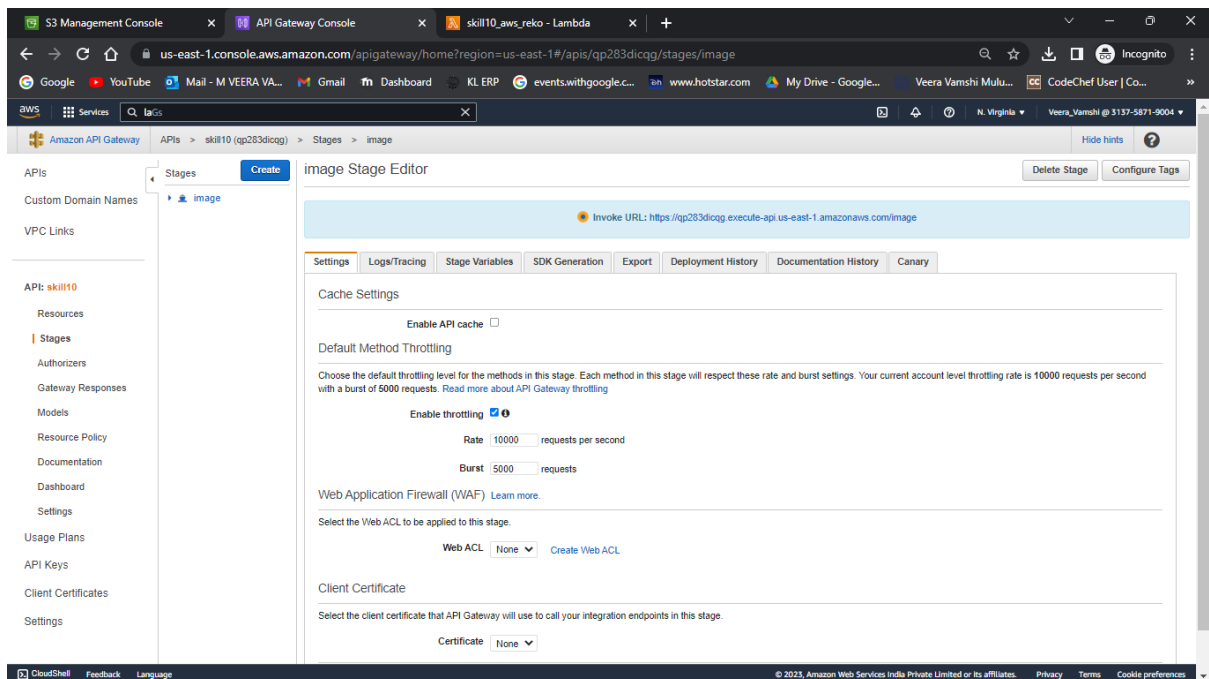
Test it:

The screenshot shows the Amazon API Gateway console for a resource named 'POST'. The 'Method Test' results are displayed, showing a successful response with a 200 status code and a response body containing a JSON array of objects. The response body is: [{"name": "Clothing", "confidence": 99.82866668701172}, {"name": "Shirt", "confidence": 99.82866668701172}, {"name": "Adult", "confidence": 99.51157379158393}, {"name": "Male", "confidence": 99.51157379158393}, {"name": "Person", "confidence": 99.51157379158393}, {"name": "Face", "confidence": 99.49040222167969}, {"name": "Head", "confidence": 99.49040222167969}, {"name": "Photography", "confidence": 99.49040222167969}, {"name": "Portrait", "confidence": 99.49040222167969}]. The response headers show Content-Type: application/json and X-Amzn-Trace-Id: Root=1-642c0276-2b4d6f7698798a779898e5d1;Sampled=0;Lineage=1a38a395;0.

Since you are getting the response, enable CORS and deploy API:

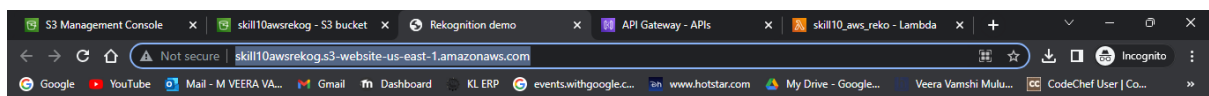
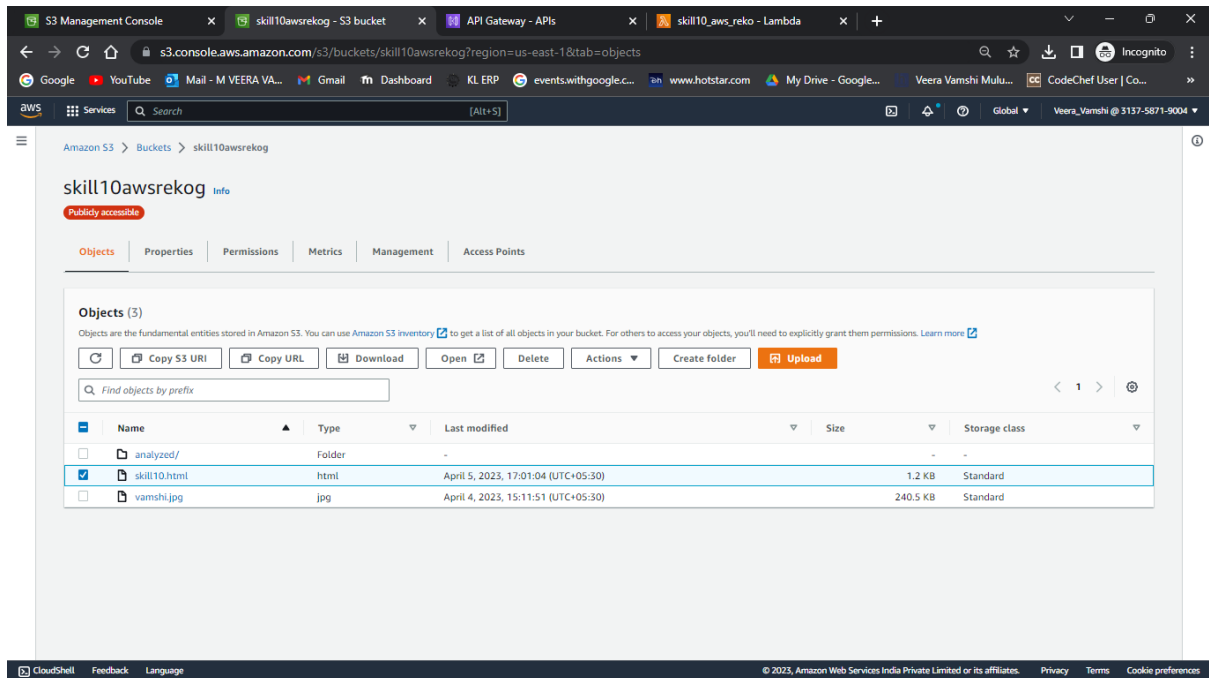


Invoke URL is generated use it for application:

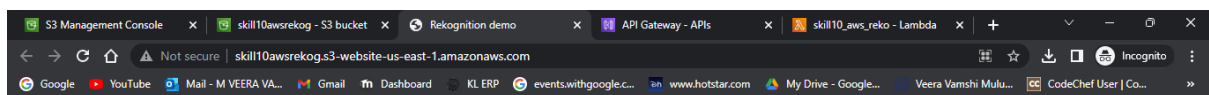


Use S3 which we have already created previously for hosting application:

Make sure u r hitting the same file name in the bucket else it will not show any details of pic:



**Enter an S3 object key:**



**Enter an S3 object key:**

Detected labels:

- Clothing (99.83)
- Shirt (99.83)
- Adult (99.51)
- Male (99.51)
- Man (99.51)
- Person (99.51)
- Face (99.49)
- Head (99.49)
- Photography (99.49)
- Portrait (99.49)

You can even update lambda and frontend such that if the files is not present in the s3, then an warning will be notified, that there is no image in the s3 of that particular file name to analyse.