1. Building a Serverless Web Application

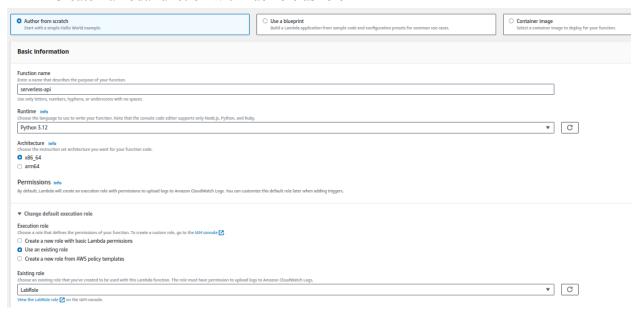
Objective: Create a serverless web application using AWS Lambda, API Gateway, S3, and DynamoDB.

Approach:

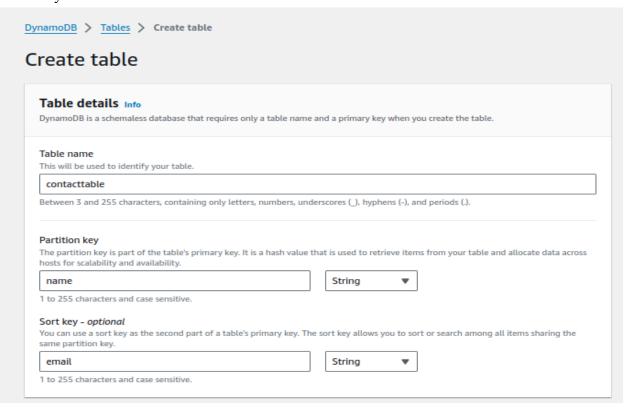
- Set Up Backend: Create Lambda functions to handle backend logic. These functions will interact with a DynamoDB table for data storage.
- API Gateway: Set up API Gateway to create RESTful endpoints that trigger the Lambda functions.
- Frontend Hosting: Host a static website on S3 that interacts with the backend via API Gateway.
- Integration: Ensure that the frontend can successfully send requests to the backend and display responses.

Goal: Understand the basics of building and connecting serverless backend services with a static frontend, enabling a fully serverless web application.

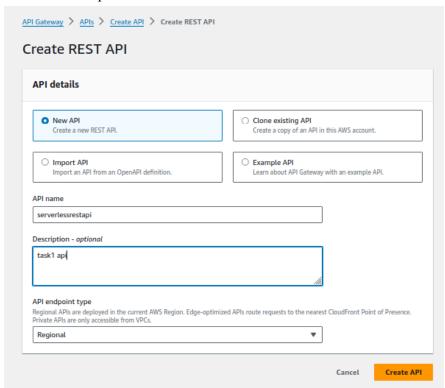
• Create Lambda function with labRole as role



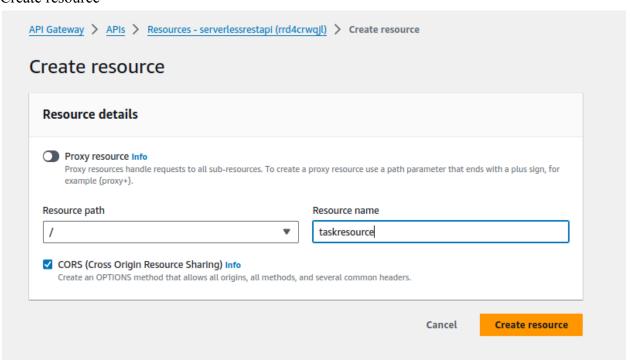
• Create Dynamo DB table



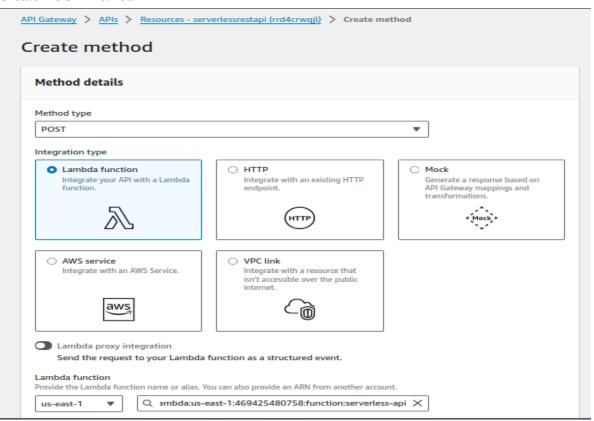
• Create REST api



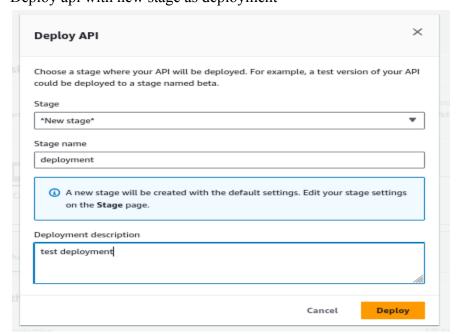
• Create resource



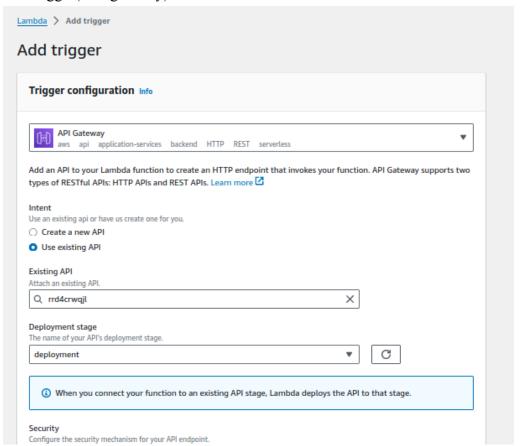
Create POST method



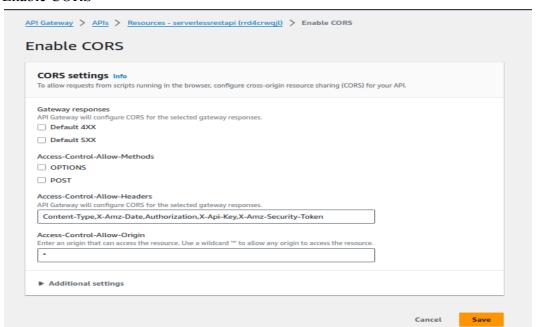
• Deploy api with new stage as deployment



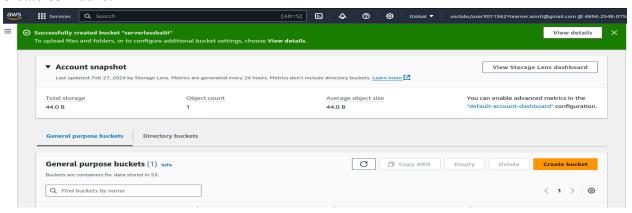
• Add trigger(API gateway)



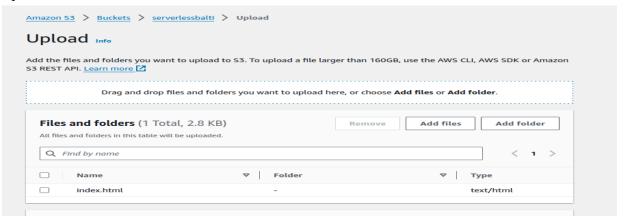
Enable CORS



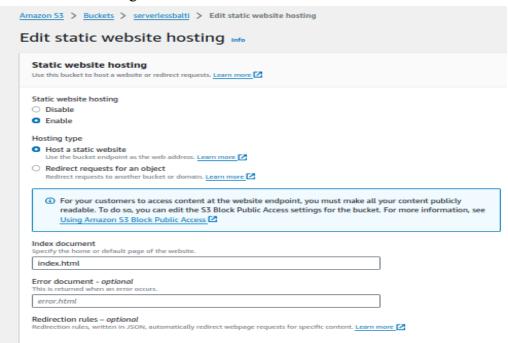
• Create S3 Bucket



Upload HTML file



• Enable Static Hosting



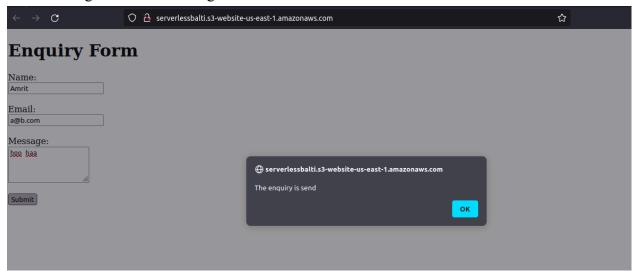
• Update Bucket Policy

Bucket ARN

arn:aws:s3:::serverlessbalti

Policy

Access using Static web hosting URL



• Access item in DynamoDB table

