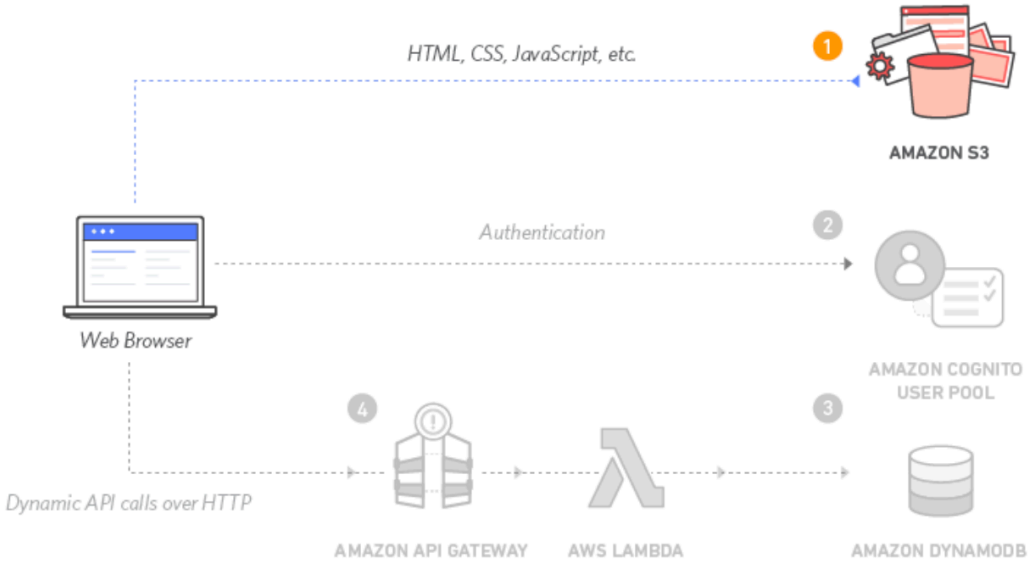
Build a Serverless Web Application

Time Spent: 120 min

Overview

In this module you'll configure Amazon Simple Storage Service (S3) to host the static resources for your web application. In subsequent modules you'll add dynamic functionality to these pages using JavaScript to call remote RESTful APIs built with AWS Lambda and Amazon API Gateway.

Architecture Overview



Related components:

- AWS Cognito
- AWS API Gateway
- AWS S3
- AWS DynamoDB
- AWS Lambda

What I learned:

- How to use AWS S3 bucket to host the static frontend webpage
- Use AWS Cognito to create user pool and ID, to implement the sign-in authentication function

- Implement register and verification function by Cognito
- How to build and deploy the new Gateway API
- How to build the authorization by Cognito token

What I built:

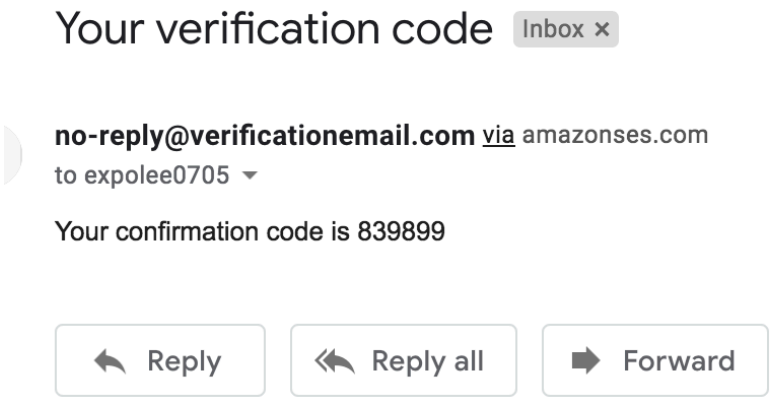
- Use AWS S3 bucket to host the static frontend webpage

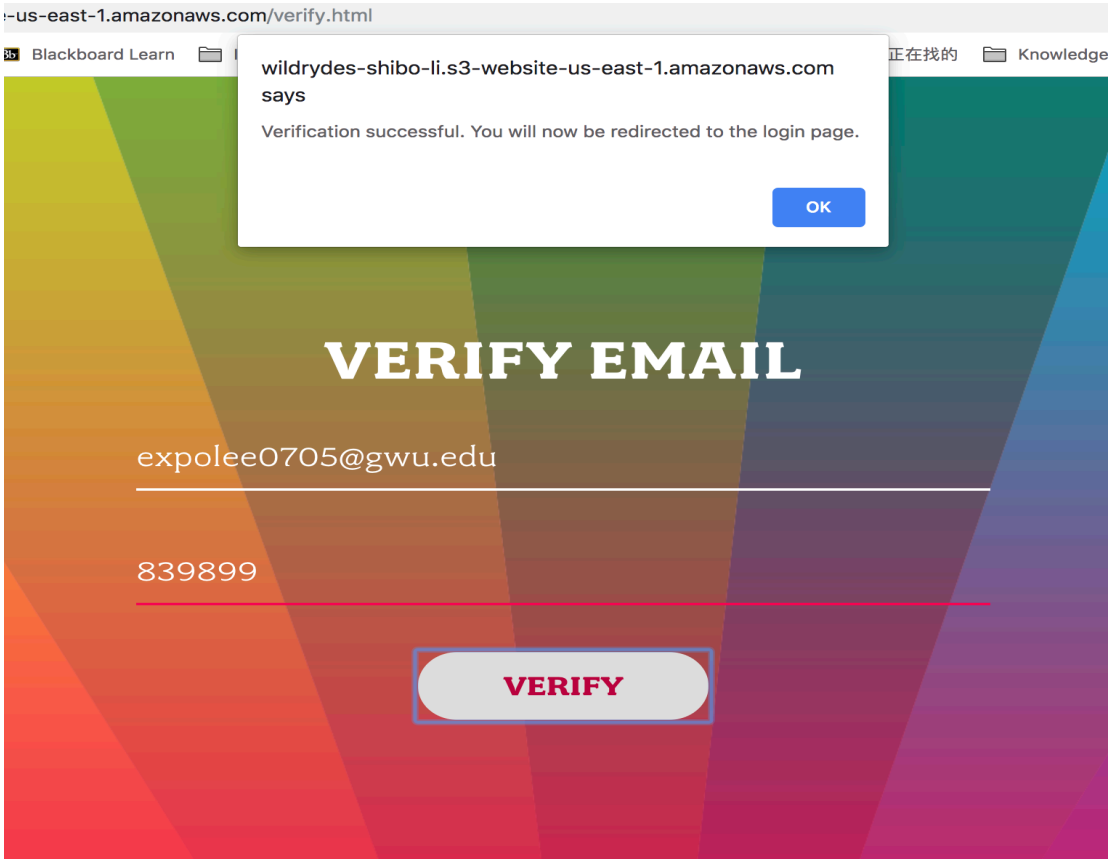
- New Config file

config.js

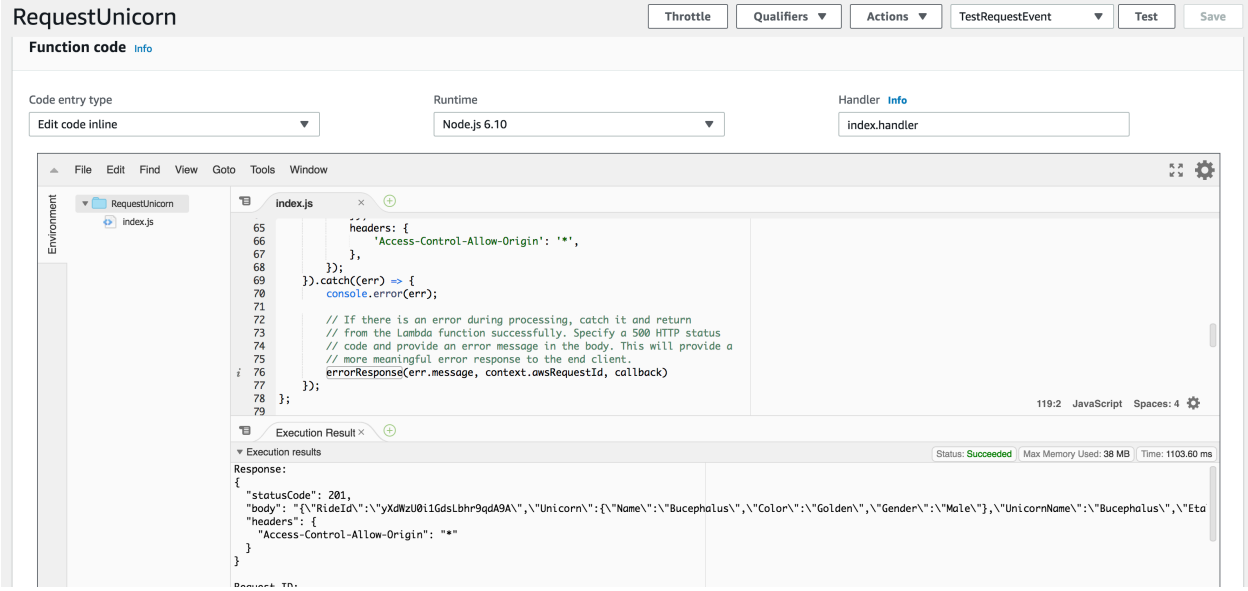
```
window._config = {
    cognito: {
        userPoolId: 'us-east-1_WTEqSrko4', // e.g. us-east-2_uXboG5pAb
        userPoolClientId: '56hsljufjb5ublsdut1f5f2m1h', // e.g. 25ddkmj4v6hfsfvruhpfi7n4hv
        region: 'us-east-1' // e.g. us-east-2
    },
```

- Authentication success

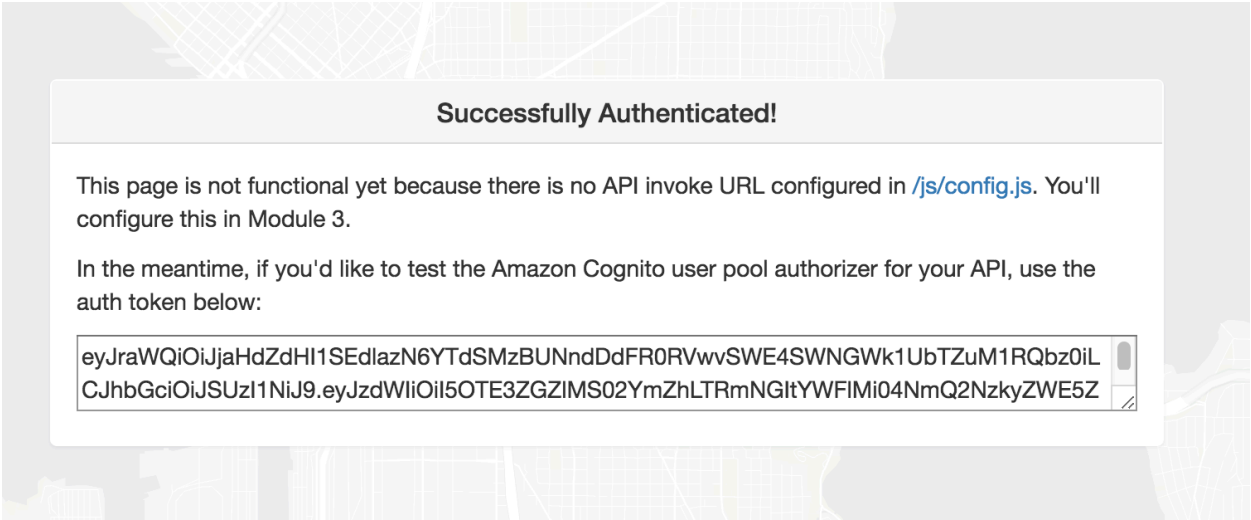


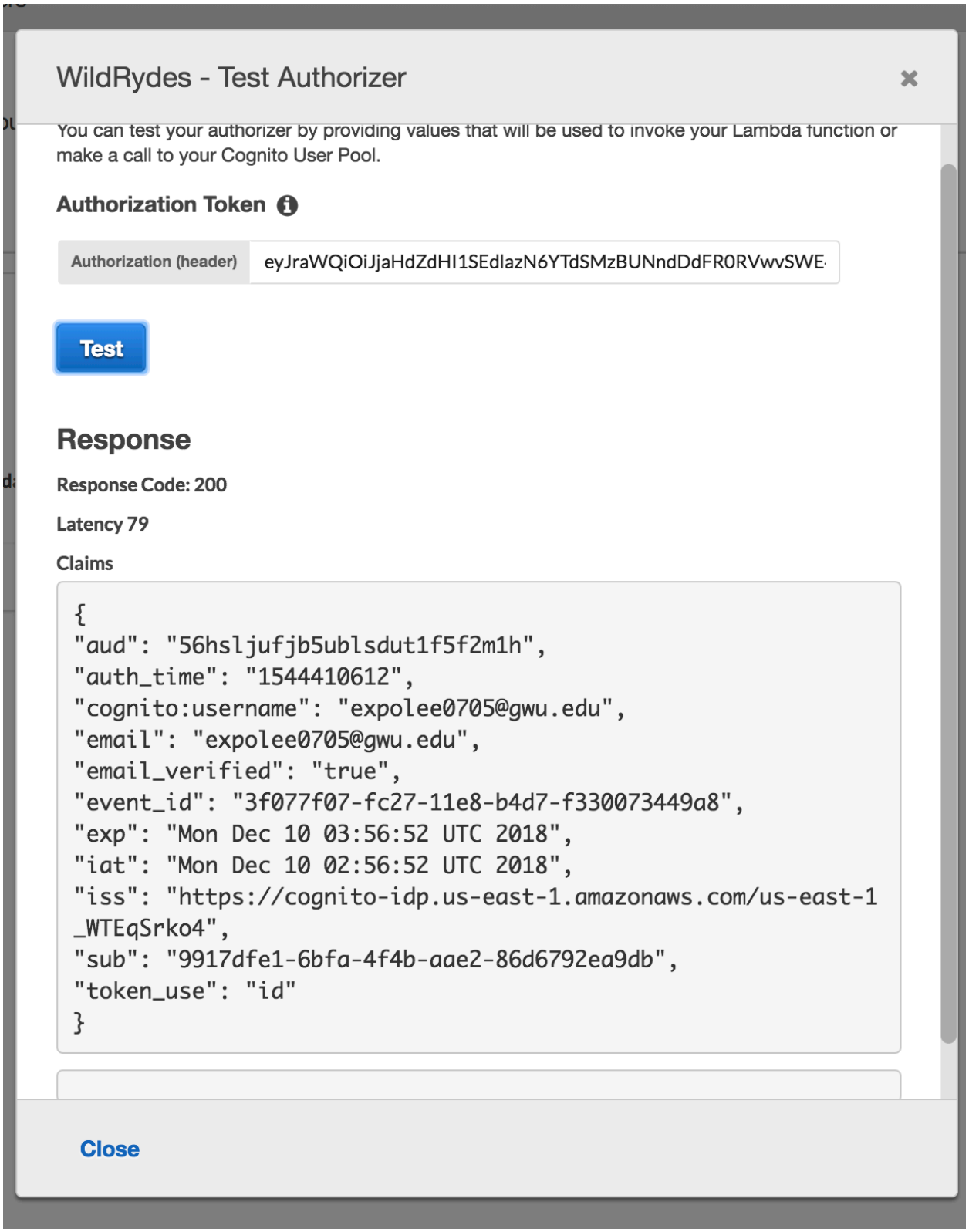


- Lambda function test successfully

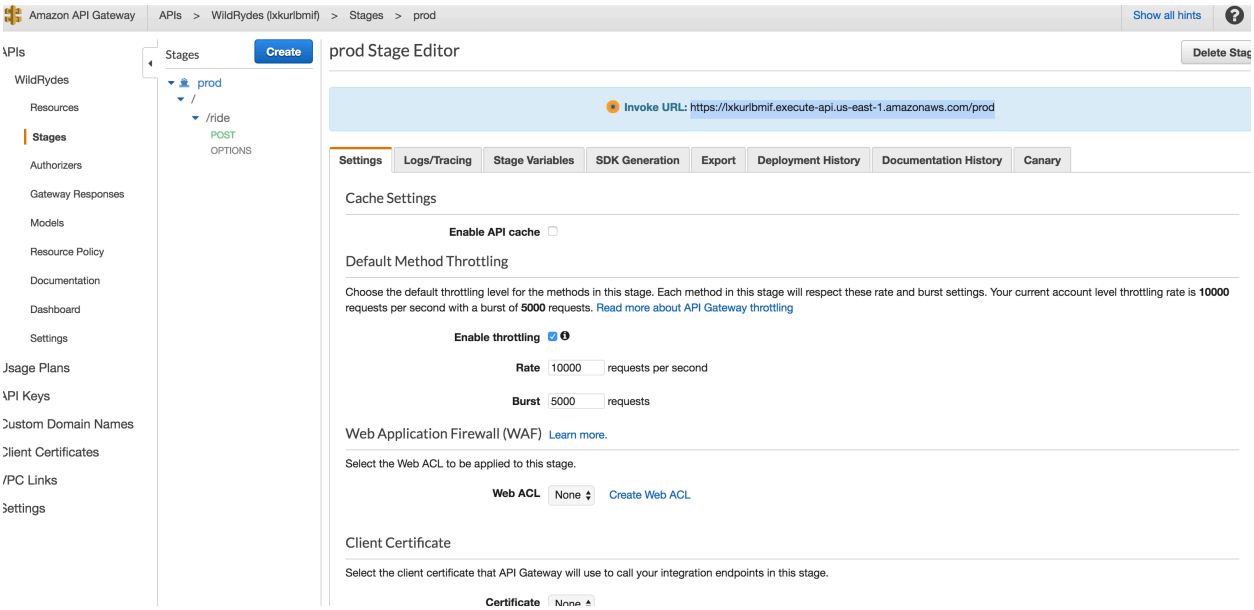


- Authorization by token





- **Finish deploy the API**



- **Implement the whole project**