
AWS API Gateway and Cognito

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and Big Data COMS 6 <https://eduassistpro.github.io/>

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Goutham Reddy K

API Gateway

- Service for creating, publishing, maintaining, monitoring, and securing REST and WebSocket APIs at any scale.

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g and • API Gateway handles
ent API calls, processing up to hu

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including traffic management, CORS s rization and
access control, throttling, monitoring, n management.

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- Create APIs that adhere to REST protocol. Allows methods such as GET, PUT, POST, DELETE, ANY on the resources.

Steps to set up API Gateway

1. Go to the API Gateway service on console.
2. Create API -> Select New API in Create New API -> Enter the API name.
Keep endpoint as r
3. Go to Actions, and <https://eduassistpro.github.io/>
the new resource.
4. Deploy and test the API. Add WeChat edu_assist_pro
5. Detailed steps can be found here - [lin](#)

Demo

- Let's create a service which accepts GET and POST requests.

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and as following POST request

- {"username": "John

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- The output of this REST POST call will

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- Note that if we make a GET request instead, we redirect to Google.com and the response body will be the html content of <https://www.google.com>

See in Action!

- Can be tested using a frontend, or a client such as Postman, or through cURL commands

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pe in the following based mac

s.com/test/hello-worldX POST 'https:

```
"name": "John" }
```

```
■ {"statusCode": 200, "body": "\"Welco" }
```

- curl -X GET '<https://{api-id}.execute-api.{region}.amazonaws.com/Test/welcome>'

```
■ "statusCode": 200, "body": "\"Welcome to AWS!\"" }
```

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Cognito

- Amazon Cognito provides authentication, authorization, and user management for your web and mobile apps. Your users can sign in directly with a user pool or through a third-party provider such as Facebook, Amazon, or Google. <https://eduassistpro.github.io/>
- The two main components of Amazon Cognito are **user pools** and **identity pools**. User pools are user directories that provide sign-up and sign-in options for your app users. Identity pools enable you to grant your users access to other AWS services. You can use identity pools and user pools separately or together.

Cognito

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Demo

- Sign in into our app using Google + – **Authentication**

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response. An authorization

ation service using the to ac
temporary credenti

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```
function signinCallback(authResult) {  
    if (authResult['status']['signed_in']) {  
        // Add the Google access token to the Amazon Cognito credentials login  
map.  
        AWS.config.credentials = new AWS.CognitoIdentityCredentials( {  
            IdentityPoolId: 'IDENTITY_POOL_ID',  
            Logins: {  
                'accounts.google.com': authResult['access_token']  
            }  
        });  
        // Obtain AWS credentials  
        AWS.config.credentials.get( function() {  
            // Access AWS resources here.  
        });  
    }  
}
```

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