AMAZON WEB SERVICES(AWS) SNIPPETS

Components of AWS Architecture


AWS Architecture
Data Flair
Amazon API Gateway
AWS Lambda
Amazon Simple Email Service

A. AMAZON API GATEWAY

- API Gateway is a front-door to access data, business logic and functionality.
- API Gateway will provide a restful API endpoint for our AWS Lambda function.
- From your back-end services such as work running on Amazon EC2 or code running on any web application.
- API works at small as well as large-scale and helps developers to manage, spectator, create and provide security to the API's. This is possible within just one click.

- **Amazon API Gateway has an inability which can control several tasks such as authorization and access control, managing traffic which comes from various areas and processing myriads of concurrent API calls.**
- **The major advantage of this is you pay only for what you receive and the amount of data transferred out.**
- **There are several advantages of Amazon API Gateway such as:-**

1. **It easily monitors your API activity.**
2. **Easy Security Controls.**
3. **No worry about servers.**
4. **Pay for what you use.**
5. **Performance at any scale.**

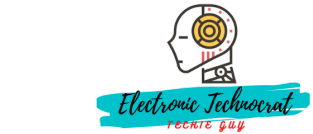
B. AWS LAMBDA

- AWS Lambda is a compute service that runs your back-end code and responds to events such as object uploads to Amazon S3 bucket, Dynamo DB or in-app activity.
- The Lambda function will get all the information from a user through API Gateway.
- The moment you upload the code to Lambda the lambda service handles all the capacity scaling, patching and administrating infrastructure to run your code and provides visibility by publishing real-time matrix and logs into Amazon Cloud watch.

C. AMAZON SIMPLE EMAIL SERVICE

- **Amazon Simple Email Service helps us to send E-mail with minimal setup and maximum deliverability.**
- **It is integrated with AWS management console so that you can monitor your sending activity.**
- **Amazon Simple Email Service helps us by monitoring insecurity. Amazon's SDK can be used to integrate Amazon SDK directly into the existing application**

- The working of Amazon Simple Email Service is simple as the client makes a request to send an E-Mail to Amazon SES.
- If the request is valid the Amazon SES composes a request parameter to Receiver ISP.
- The ISP then delivers the request to the recipient's inbox.
- If the recipient's E-Mail address is not valid then ISP sends back a notification to Amazon SES and it is then forwarded to back to the sender.
- If the sender doesn't want to receive the request can register the complaint against ISP. The ISP will send the request through SES to the Sender.



Successful Email Delivery

Sender

Amazon SES

Receiver ISP

- **Amazon SES provides us with various benefits as it is reliable, configurable, has high deliverability and is cost-effective.**
- **Few users of Amazon SES are:-Vodafone, D-link, Code.org**