**API Gateway** It is a fully managed service for creating,publishing and securing RESTful, HTTP and WebSocket APIs.

It integrates with AWS services like Lambda and EC2, provides features like authentication, monitoring and enables scalable and secure API

Client 🡪 HTTP Request 🡪 Server

Server 🡪 HTTP Response 🡪 Client

There mainly 4 types of HTTP Requests/Methods.

GET ,POST ,PUT , DELETE etc…

LAB-10:Demo on API Gateway with Lambda function.

Go aws console>lambda>create function>

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Lambda function is created.

Open new tab >console>API Gateway

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Go with HTTP API to build.

In integrations select the lambda function just created.

Api name – demoapi

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Click on next.

Method : GET

Resource path : /

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Click next:

And create the api gateway.

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Click the link below of end point.

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Go to test write the code:

import json

def lambda\_handler(event, context):

    if event['rawPath'] == '/':

        message = 'welcome to lambda'

    elif event['rawPath'] == '/user':

        message = 'welcome to user'

    elif event['rawPath'] == '/emp':

        message{"id":1,"name":"Varma","salary":10000}

    else:

        message"Invalid Path"

    return {

        'statusCode': 200,

        'body': json.dumps("message":message)

    }

Now go to api >routes>create method: GET request :/user

Create it.

Same for /emp

Now select the /GET of user then integrate with lambda

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Now delete the api gate way.