AWS AND JAVA

Good Night

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I Have been working in the it industry

For more than 12 years

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AGENDA

- AWS Overview
- Lambda
- Configuration of AWS
- Demo

AWS

Is the leading cloud provider

AWS SERVICES

Management Services

|	Application Services			Security - IAM	Deployment - CloudFormation, CodePipeline	Monitoring - CloudWatch
Application Services	**User Management** Cognito	**Machine Learning** SageMaker, Rekognition	**Data Analysis** Athena, Glue			
Component Services	**Databases/ Service Storage** S3, RDS, DynamoDB	**PaaS** Lambda, Elastic Beanstalk	**Message Busses** SNS, SQS, Kinesis			
Fundamental Infrastructure	**Networking** Load Balancers, VPC	**Virtual Hosts** EC2, Auto Scaling	**Host Storage** Block Storage, EFS			

SERVERLESS TECHNOLOGY

- **Reduced labor cost**

- Reduced risk

- Reduced infrastructure cost

- Scaling

- Lead time

ADVANTAGES OF AWS

- Ease of Use

- Diverse Array of Tools

- Unlimited Server Capacity

- Reliable Encryption & Security

- Managed IT Services Are Available

- AWS Offers Flexibility & Affordability

AWS LAMBDA
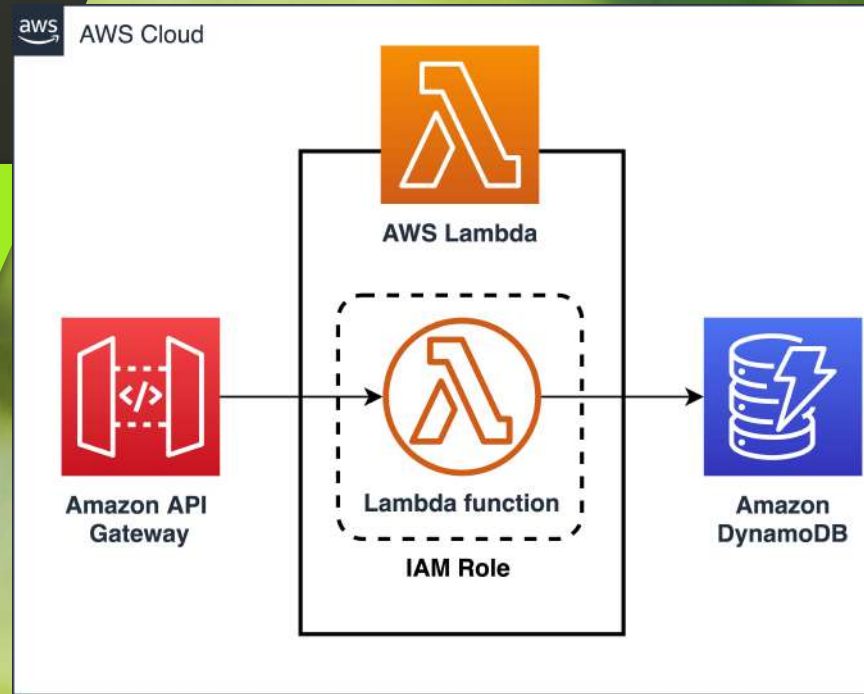
ADVENTAGES OF LAMBDA

- Does not require managing a long-lived host

- Self auto-scales and auto-provisions

- Has performance capabilities defined in terms other than host size/count

- Has costs that are based on precise usage

- Implicit high availability
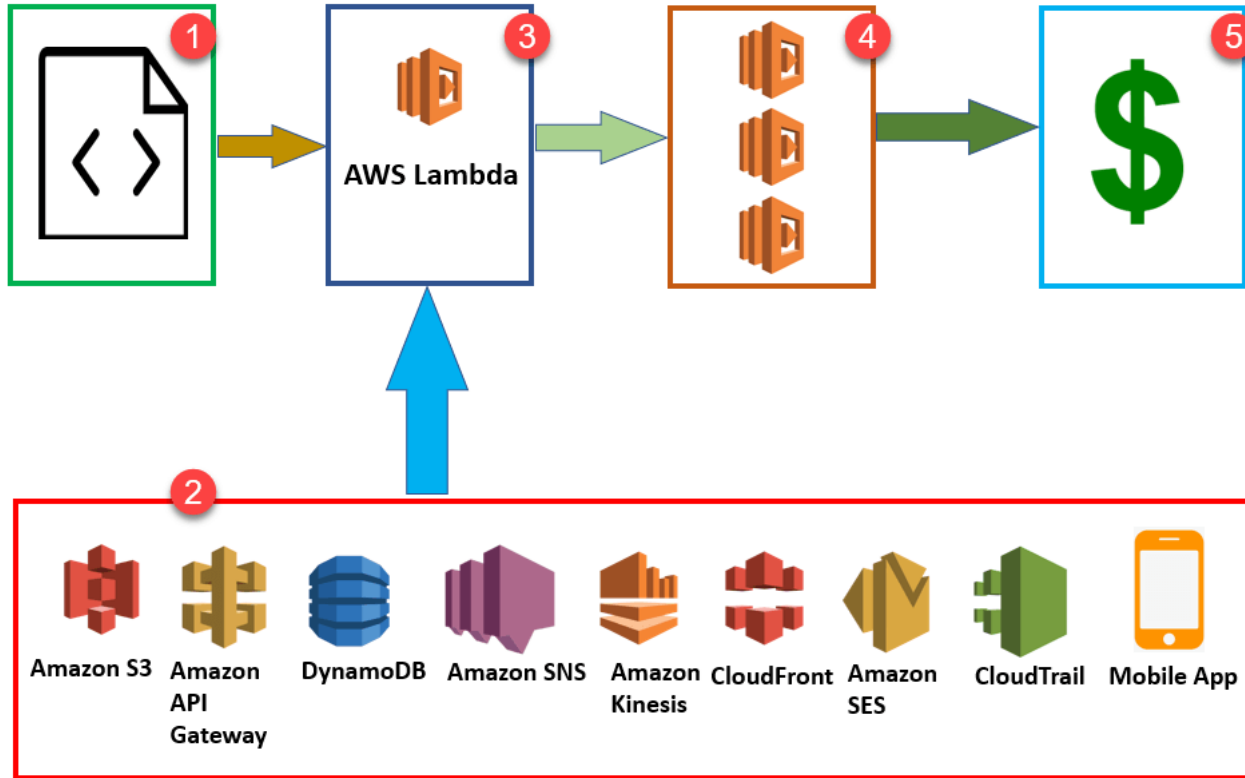
LAMBDA CAN BE INVOKED:

Aasynchronously

A component calls the Lambda function and waits for the response of the Lambda function generates

synchronously

Is invoked for a Event of AWS

USE CASES OF LAMBDA

- ETL process

- Allows you to perform real-time file processing and real-time stream processing

- Use for creating web applications

- Use in Amazon products like Alexa Chatbots and Amazon Echo/Alexa

- Data processing (real-time streaming analytics)

- Automated Backups of everyday tasks

- Scalable back ends (mobile apps, IoT devices)

- Helps you to execute server-side backend logic

- Allows you to filter and Transform data

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AWS CONFIGURATION.

AWS CONSOLE
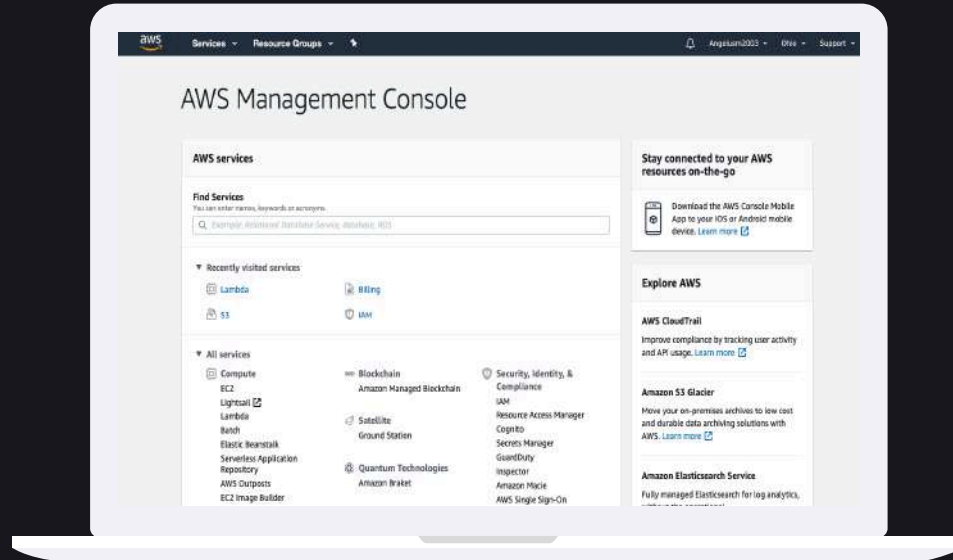
IAM (Identity and Access Management)

- Users
- Roles
- Groups
- Policies

AWS IAM

📊 AWS CLI

Access Key ID

Secret Access Key

👤 - Configuration of user:

aws configure

AWS Access Key ID [*******************]:

AWS Secret Access Key [*******************]:

Default region name [region]:

Default output format [json]:

DEMO TIME!

THANKS!