

# INFOSOFT IT SOLUTIONS

Training | Projects | Placements

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## AWS Lambda

### 1. Introduction to AWS Lambda

- What is AWS Lambda
- Key features of AWS Lambda
- What is AWS Lambda Function
- Various tools used in AWS Lambda
- Limits of AWS Lambda

### 2. Serverless Computing

- What is Serverless Computing
- Concept of Pricing
- Comparison between cloud computing and serverless computing
- Key benefits of Serverless computing
- Serverless Architecture patterns

### 3. AWS Lambda Environmental Setup

- Introduction to AWS Lambda
- AWS Lambda Installation

- Eclipse and Visual Studio
- Login creation in AWS Console
- AWS Toolkit Support
- Lambda BoilerPlate

#### **4. AWS Lambda with AWS CLI**

- What is an AWS Lambda Function
- Use of AWS CLI
- Creation of execution role
- Create a Lambda function
- How to manage Lambda resources using AWS CLI
- Invocation of Lambda Function

#### **5. Lambda Function**

- How to create a Lambda function
- Invoking a Lambda Function
- Use of AWS Lambda Console

#### **6. Basic AWS Lambda Concepts**

- Concurrency
- Triggers
- Qualifier
- Event
- Lambda Runtime

#### **7. Tools used to work with AWS Lambda**

- Code Authoring tools
- AWS Command Line Interface (CLI)

- SAM CLI
- Serverless Application Model

## **8. Lambda Permissions**

- AWS IAMAccess Management
- Resource-based policies
- Permission boundaries
- Resources and Conditions
- User PoliciesIdentity-based policies

## **9. Invoking and Managing AWS Lambda Functions**

- Use of Configuration Console
- Concurrency
- Use of Environmental Variables
- Aliases and Layers
- Use of Database and File System
- Invoking AWS Lambda Functions
- Event Source Mapping
- Synchronous and Asynchronous Invocation
- Function Scaling

## **10. Lambda Runtimes**

- Execution context
- Custom Runtime
- Custom runtimes
- Runtime interfaces
- Runtime support policy

## **11. Usage of AWS Lambda with other services**

- Building AWS Lambda Function using C#, Java, PowerShell, and Go.
- AWS Lambda with API Gateway
- CloudWatch Events and Logs
- AWS Lambda working with Amazon DynamoDB and Kinesis Firehose
- Elastic Load Balancing

## **12. Troubleshooting Issues**

- Troubleshooting networking issues
- Deployment issues
- Execution issues
- Invocation issues

## **13. AWS Lambda Use Cases**

- Mobile Applications
- File Processing
- Website Designing
- Data Analytical Applications