

# Serverless Architectures with AWS



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## Course Duration: 2 days

### Overview

Serverless Architectures with AWS begins with an introduction to the serverless model and helps you get started with AWS. You'll also get to grips with other capabilities of the AWS Serverless Platform and see how AWS supports enterprise-grade serverless applications with and without Lambda.

This course will guide you through deploying your first serverless project and exploring the capabilities of serverless Amazon Athena, an interactive query service that makes it easy to analyse data in Amazon Simple Storage Service (Amazon S3) using standard SQL. You'll also learn about AWS Glue, a fully managed extract, transfer, and load (ETL) service that makes categorizing data easy and cost-effective. You'll study how Amazon Kinesis makes it possible to unleash the potential of real-time data insights and analytics with capabilities such as Kinesis Data Streams, Kinesis Data Firehose, and Kinesis Data Analytics. Last but not least, you'll be equipped to combine Amazon Kinesis capabilities with AWS Lambda to create lightweight serverless architectures.

### Target Audience

Serverless Architectures with AWS is for you if you want to develop serverless applications and have some prior coding experience. Though no prior experience of AWS is needed, basic knowledge of Java or Node.js will be an added advantage.

### Course Outline

#### Lesson 1: AWS, Lambda, and Serverless Applications

- The Serverless Model
- Introduction to AWS
- AWS Lambda

#### Lesson 2: Working with the AWS Serverless Platform

- Amazon S3
- S3 and Lambda Integration
- API Gateway
- Other Native Services

#### Lesson 3: Building and Deploying a Media Application

- Designing a Media Web Application – from Traditional to Serverless
- Building a Simple Serverless Media Web Application
- Deployment Options in the Serverless Architecture

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## Lesson 4: Serverless Amazon Athena and the AWS Glue Data Catalog

- Amazon Athena
- AWS Glue

## Lesson 5: Real-Time Data Insights Using Amazon Kinesis

- Amazon Kinesis
- Amazon Kinesis Data Streams
- Amazon Kinesis Firehose
- Amazon Kinesis Data Analytics

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