

In this course, you will learn how to:

- Set up the AWS SDK and developer credentials for Java, C#/.NET, Python, and JavaScript
- Interact with AWS services and develop solutions by using the AWS SDK
- Use AWS Identity and Access Management (IAM) for service authentication
- Use Amazon Simple Storage Service (Amazon S3) and Amazon DynamoDB as data stores
- Integrate applications and data by using AWS Lambda, Amazon API Gateway, Amazon Simple Queue Service (Amazon SQS), Amazon Simple Notification Service (Amazon SNS), and AWS Step Functions
- Use Amazon Cognito for user authentication
- Use Amazon ElastiCache to improve application scalability
- Use containers in the development process
- Leverage the CI/CD pipeline to deploy applications on AWS

## Who Should Attend?

This course is intended for intermediate-level software developers.

## Prerequisites

We recommend that attendees of this course have the following prerequisites:

- In-depth knowledge of at least one high-level programming language
- Working knowledge of core AWS services and public cloud implementation

## Delivery Method

This course is delivered through a mix of:

- Classroom training
- Demonstrations
- Hands-on labs

## Hands-On Activity

This course allows you to test new skills and apply knowledge to your working environment through a variety of practical exercises.

## Course Outline

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Introduction to AWS

Introduction to Developing on AWS

Introduction to AWS Identity and Access Management

Developing Storage Solutions with Amazon S3

Developing Flexible NoSQL Solutions with Amazon  
DynamoDB

Developing Solutions with AWS Lambda

Developing Solutions with Amazon API Gateway

Developing Solutions with Amazon SQS and Amazon SNS

Developing Event-Driven Solutions with AWS Step  
Functions

Caching Information for Scalability

Getting Started with Containers

Developing Secure Solutions

Deploying Applications