

## Developing on AWS

**Course#:**aws-dev

**Duration:**3 Days

**Price:**2550.00

### Course Description

In this course, you learn how to use the AWS SDK to develop secure and scalable cloud applications. Explore how to interact with AWS using code and also learn about key concepts, best practices, and troubleshooting tips.

### Objectives

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

### Audience

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

## **Content**

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