
Developing on AWS

Overview

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.

Prerequisite Comments

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

Target Audience

This course is intended for:
Intermediate-level software developers

Course Objectives

This course is designed to teach you 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 Web Identity Framework and 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

Course Outline

1 - Day 1: Getting Started

Working with the AWS code library, SDKs, and IDE toolkits
Introduction to AWS security features
Service object models and baseline concepts for working with Amazon Simple Storage Service (S3) and Amazon DynamoDB

2 - Day 2: Working with AWS Services

Service object models and baseline concepts for working with the Amazon Simple Queue Service (SQS) and the Amazon Simple Notification Service (SNS)
Applying AWS security features

3 - Day 3: Application Development and Deployment Best Practices

Application deployment using AWS Elastic Beanstalk
Best practices for working with AWS services
