

AWS – Developing on Amazon Web Services

Description

This training enables participants to design and develop AWS-based applications that are secure, reliable, and scalable. The course covers fundamental concepts and core programming principles for developing applications on AWS. Participants learn how to leverage code libraries, software development kits (SDKs), and development environment toolkits for AWS, enabling them to efficiently develop and deploy their code on the AWS platform.

Course Content

Day 1: Building the Foundations

- Introduction to Developing on AWS
- Choosing a Data Storage System
- Developing Storage Solutions with Amazon S3
- Developing Flexible NoSQL Solutions with Amazon DynamoDB

Day 2: Connecting Applications and Data with Event-Driven Processing

- Working with Events
- Developing Event-Driven Solutions with Amazon Kinesis Streams
- Developing Event-Driven Solutions with Amazon SWF, Amazon SQS, and Amazon SNS
- Developing Event-Driven Solutions with AWS Lambda

Day 3: Building and Deploying Secure and Scalable Applications

- Developing Secure Applications
- Caching Information for Scalability
- Monitoring Your Application and AWS Resources with Amazon CloudWatch
- Deploying Applications with AWS Elastic Beanstalk and AWS CloudFormation

Lab / Exercises

- Official AWS labs

Documentation

- Official AWS labs

Exam

- This training prepares you for the **AWS Certified Developer – Associate** certification

Participant profiles

- Developers

Prerequisites

- Familiarity with AWS services
- Hands-on knowledge of Java, C#/.Net, or Python

Objectives

- Set up the AWS SDK and developer credentials for Java, C#/.Net, Python, and JavaScript
- Use the AWS SDK to interact with AWS services and develop solutions
- Use Amazon Simple Storage Service (Amazon S3) and Amazon DynamoDB as data storage systems
- Integrate applications and data using Amazon Kinesis, AWS Lambda, Amazon Simple Queue Service (Amazon SQS), Amazon Simple Notification Service (Amazon SNS), and Amazon Simple Workflow Service (Amazon SWF)
- Use AWS Identity and Access Management (IAM) for service authentication
- Use the Web Identity Framework and Amazon Cognito for user authentication
- Use Amazon ElastiCache and Amazon CloudFront to improve application scalability
- Deploy applications using AWS Elastic Beanstalk and AWS CloudFormation

Niveau

Intermédiaire

Classroom Registration Price (CHF)

2600

Virtual Classroom Registration Price (CHF)

2600

Duration (in Days)

3

Reference

AWS-202