

# Developing on AWS with AWS Jam (AWSD-AWS-JAM)

**ID** AWSD-AWS-JAM **Price** CHF 3,090.—(excl. VAT) **Duration** 4 days

## Who should attend

This course is intended for experienced:

- Software developers
- Solution architects
- IT workers who want to improve their developing skills using AWS Services

## Prerequisites

We recommend that attendees of this course have:

- [AWS Technical Essentials \(AWSE\)](#)
- Working knowledge of AWS core services
- Programming experience in any one of the following languages:
  - Python
  - .NET
  - Java

## Course Objectives

In this course, you will learn to:

- Build a simple end-to-end cloud application using AWS Software Development Kits (AWS SDKs), Command Line Interface (AWS CLI), and IDEs.
- Configure AWS Identity and Access Management (IAM) permissions to support a development environment.
- Use multiple programming patterns in your applications to access AWS services.
- Use AWS SDKs to perform CRUD (create, read, update, delete) operations on Amazon Simple Storage Service (Amazon S3) and Amazon DynamoDB resources.
- Build AWS Lambda functions with other service integrations for your web applications.
- Understand the benefits of microservices architectures and serverless applications to design.
- Develop API Gateway components and integrate with other AWS services.
- Explain how Amazon Cognito controls user access to AWS resources.
- Build a web application using Cognito to provide and

control user access.

- Use DevOps methodology to reduce the risks associated with traditional application releases and identify AWS services that help in implementing DevOps practices.
- Use AWS Serverless Application Model (AWS SAM) to deploy an application.
- Observe your application build using Amazon X-Ray.
- Work in a team environment to solve real AWS use-case challenges in an AWS Jam

## Course Content

- Course Overview
- Building a Web Application on AWS
- Getting Started with Development on AWS
- Getting Started with Permissions
- Lab 1: Configure the Developer Environment
- Getting Started with Storage
- Processing Your Storage Operations
- Lab 2: Develop Solutions Using Amazon S3
- Getting Started with Databases
- Processing Your Database Operations
- Lab 3: Develop Solutions Using Amazon DynamoDB
- Processing Your Application Logic
- Lab 4: Develop Solutions Using AWS Lambda Functions
- Managing the APIs
- Lab 5: Develop Solutions Using Amazon API Gateway
- Building a Modern Application
- Granting Access to Your Application Users
- Capstone – Complete the Application Build
- Deploying Your Application
- Observing Your Application
- Lab 7: Observe the Application Using AWS X-Ray
- Course Wrap-up
- AWS Jam



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