

## Advanced Developing on AWS

Course#:aws-adv-dev

Duration:3 Days

Price:0.00

### Course Description

The Advanced Developing on AWS course uses the real-world scenario of taking a legacy, on-premises monolithic application and refactoring it into a serverless microservices architecture. This three-day advanced course covers advanced development topics such as architecting for a cloud-native environment; deconstructing on-premises, legacy applications and repackaging them into cloud-based, cloud-native architectures; and applying the tenets of the Twelve-Factor Application methodology.

### Objectives

Analyze a monolithic application architecture to determine logical or programmatic break points where the application can be broken up across different AWS services.

Apply Twelve-Factor Application manifesto concepts and steps while migrating from a monolithic architecture.

Recommend the appropriate AWS services to develop a microservices based cloud native application.

Use the AWS API, CLI, and SDKs to monitor and manage AWS services.

Migrate a monolithic application to a microservices application using the 6 Rs of migration.

Explain the SysOps and DevOps inter dependencies necessary to deploy a microservices application in AWS.

### Audience

Experienced software developers who are already familiar with AWS services

### Prerequisites

In-depth knowledge of at least one high-level programming language.

Working knowledge of core AWS services and public cloud implementation.

Completion of the Developing on AWS course, and then a minimum of 6 months of application of those concepts in a real world environment.

## **Content**

Module 1: Interfacing with AWS Services

Module 2: Deconstructing a monolithic architecture

Module 3: Migrating to the cloud

Module 4: Creating an infrastructure

Module 5: Declare and isolate dependencies

Module 6: Storing configuration in the cloud

Module 7: Establish a build, release, run model

Module 8: Creating the codebase

Module 9: Deploying an application

Module 10: Evolution of architecture

Module 11: Design patterns

Module 12: I/O explosion and preventing it

Module 13: Microservices