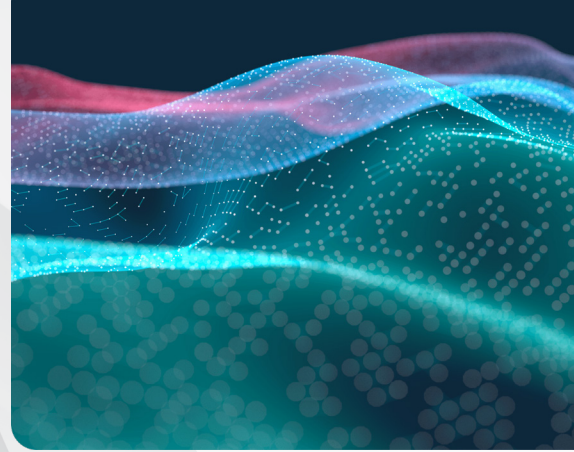


Advanced Developing on AWS

Course Benefits & Agenda



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Overview

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 four-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.

Course Benefits

This course is designed to teach the student how to:

- 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 interdependencies necessary to deploy a microservices application in AWS

Agenda

Day 1

Module	Topic
Module 1	The cloud journey
Lab 1	Deploy your monolith application using AWS Elastic Beanstalk
Module 2	Gaining Agility

Day 2

Module	Topic
Module 3	Getting Started with Databases
Lab 2	Using AWS Lambda to develop microservices
Module 4	Polyglot Persistence & Distributed Complexity

Day 3

Module	Topic
Module 5	Resilience and Scale
Lab 3	Exploring the AWS messaging options
Module 6	Security and Observability
Lab 4	Automating deployments with Cloud Formation