

Advanced Developing on AWS Agenda

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.

Day 1

Module 1	<p>The Cloud Journey</p> <p>The 6 R's of migration, The 12 Factor app</p> <p>Interfacing with AWS services</p> <p>Authentication and authorization</p> <p><u>Lab 1</u> - Deploy your monolith application using AWS Elastic Beanstalk</p>
Module 2	<p>Gaining Agility</p> <p>DevOps, CI-CD</p>

Day 2

Module 3	<p>Monolith to Microservices</p> <p>Serverless, SAM, CDK, Cloud Air</p> <p><u>Lab 2</u> - Using AWS Lambda to develop microservices</p>
Module 4	<p>Polyglot Persistence & Distributed Complexity</p> <p>Polyglot persistence, DynamoDB best practices, AWS Step Functions</p> <p><u>Lab 3</u> - Introduction to the Cloud Development Kit</p>

Day 3

Module 5	<p>Resilience & Scale</p> <p>SQS, SNS, Kinesis, Serverless event bus</p> <p>Event sourcing and CQRS</p> <p><u>Lab 4</u> - Exploring the AWS messaging options</p>
Module 6	<p>Security & Observability</p> <p>Authentication with Amazon Cognito</p> <p>Debugging and traceability</p> <p><u>Lab 5</u> - Developing microservices on AWS</p>