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

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

# Day 2

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

# Day 3

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