



Advanced Developing on AWS

Duration: 3 Days **Course Code: GK4505** **Delivery Method: Virtual Learning**

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 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.

Virtual Learning

This interactive training can be taken from any location, your office or home and is delivered by a trainer. This training does not have any delegates in the class with the instructor, since all delegates are virtually connected. Virtual delegates do not travel to this course, Global Knowledge will send you all the information needed before the start of the course and you can test the logins.

Target Audience:

This course is intended for experienced software developers who are already familiar with AWS services.

Objectives:

- In this course, you will learn 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.
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Prerequisites:

We recommend that attendees of this course have the following 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 (GK4504), and then a minimum of 6 months of application of those concepts in a real world environment.
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Content:

This course covers the following concepts:

- Interfacing with AWS Services
- Deconstructing a monolithic architecture
- Migrating to the cloud
- Creating an infrastructure
- Declare and isolate dependencies
- Storing configuration in the cloud
- Establish a build, release, run model
- Creating the codebase
- Deploying an application
- Evolution of architecture
- Design patterns
- I/O explosion and preventing it
- Microservices

Further Information:

For More information, or to book your course, please call us on Head Office 01189 123456 / Northern Office 0113 242 5931

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