



## Advanced Developing on AWS

**Duration: 3 Days**    **Course Code: GK4505**    **Delivery Method: Company Event**

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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 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.

### Company Events

These events can be delivered exclusively for your company at our locations or yours, specifically for your delegates and your needs. The Company Events can be tailored or standard course deliveries.

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### Target Audience:

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

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### 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

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## 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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