



## Developing on AWS

**Duration: 3 Days**    **Course Code: GK4504**

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### Overview:

In this course you will learn how to use the AWS SDK to develop secure and scalable cloud applications, explore how to interact with AWS using code and also learn about key concepts, best practices and troubleshooting tips.

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### Target Audience:

This course is intended for intermediate-level software developers.

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### Objectives:

- In this course you will learn how to:
  - Set up the AWS SDK and developer credentials for Java, C#.NET, Python and JavaScript
  - Interact with AWS services and develop solutions by using the AWS SDK
  - Use AWS Identity and Access Management (IAM) for service authentication
  - Use Amazon Simple Storage Service (Amazon S3) and Amazon DynamoDB as data stores
  - Integrate applications and data by using AWS Lambda, Amazon API Gateway, Amazon Simple Queue Service (Amazon SQS), Amazon Simple Notification Service (Amazon SNS) and AWS Step Functions
  - Use Amazon Cognito for user authentication
  - Use Amazon ElastiCache to improve application scalability
  - Use containers in the development process
  - Leverage the CI/CD pipeline to deploy applications on AWS
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### Prerequisites:

We recommend that attendees of this course have the following pre-requisites:

- In-depth working knowledge of at least one high-level programming language
- Working knowledge of core AWS services and public cloud implementation

### Testing and Certification

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## Content:

This course covers the following concepts:	Developing Flexible NoSQL Solutions with Amazon DynamoDB	Caching Information for Scalability
Introduction to AWS	Developing Solutions with AWS Lambda	Getting Started with Containers
Introduction to Developing on AWS	Developing Solutions with Amazon API Gateway	Developing Secure Solutions
Introduction to AWS Identity and Access Mangement	Developing Solutions with Amazon SQS and Amazon SNS	Deploying Secure Solutions
Developing Storage Solutions with Amazon S3	Developing Event-Driven Solutions with AWS Step Functions	Deploying Applications

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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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