



# COURSE OVERVIEW

## AWS Developer



# AWS Technical Essentials

Duration: 1 Day

Delivery Method: AWS Instructor Led, Hands-on Labs

Day 1

AWS Technical Essentials introduces you to AWS products, services, and common solutions.

It provides IT technical end users with basic fundamentals to become more proficient in identifying AWS services so that you can make informed decisions about IT solutions based on your business requirements and get started on AWS.

## Course Objectives

This course is designed to teach you how to:

- Understand basic data centre design concepts
- Recognise terminology and concepts as they relate to the AWS platform and navigate the AWS Management Console
- Understand the foundational infrastructure services, including Amazon Virtual Private cloud (VPC), Amazon Elastic Compute Cloud (EC2), Amazon Elastic Block Store (EBS), Amazon Simple Storage Service (S3), Auto Scaling, and Elastic Load Balancing (ELB)
- Understand the security measures AWS provides and key concepts of AWS Identity and Access Management (IAM)
- Understand AWS database services, including Amazon DynamoDB and Amazon Relational Database Service (RDS).
- Understand AWS management tools, including Amazon CloudWatch and AWS Trusted Advisor

## Prerequisites

We recommend that attendees of this course have the following prerequisites:

- Working knowledge of IT infrastructure concepts
- Familiarity with basic finance concepts
- Familiarity with basic IT security concepts

## Intended Audience

This course is intended for:

- Individuals responsible for articulating the technical benefits of AWS services to customers
- Individuals interested in learning how to get started with using AWS
- SysOps Administrators, Solution Architects and Developers interested in using AWS services

## Hands-On Activity

This course allows you to test new skills and apply knowledge to your working environment through a variety of practical exercises.

## Bring Your Own Device

Please note that this class requires you to bring your own device. Plan to come to class with the following:

- A notebook computer with Wi-Fi (labs cannot be completed on an iPad or tablet device)
- Administrator access to the computer, if Windows
- Chrome, Firefox, or Safari
- Smart device / tablet to access course literature (optional)

## Course Outline

This course covers the following concepts:

- ✓ Introduction and History of AWS
- ✓ AWS Database
- ✓ AWS Infrastructure: Compute, Storage, and Networking
- ✓ AWS Management Tools
- ✓ AWS Security, Identify, and Access Management

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# Developing on AWS

Duration: 3 Day

Delivery Method: AWS Instructor Led, Hands-on Labs

Day 2 - Day 3 - Day 4

Developing on AWS helps developers understand how to use the AWS SDK to develop secure scalable cloud applications.

The course provides in-depth knowledge about how to interact with AWS using code and covers key concepts, best practices, and troubleshooting tips.

## Course Objectives

This course is designed to teach you how to:

- Set up the AWS SDK and developer credentials for Java, C#/Net, Python, and JavaScript
- Use the AWS SDK to interact with AWS services and develop solutions
- Use Amazon Simple Storage Service (Amazon S3) and Amazon DynamoDB as data stores
- Integrate applications and data by using Amazon Kinesis, AWS Lambda, Amazon Simple Queue Service (Amazon SQS), Amazon Simple Notification Services (Amazon SNS), and Amazon Simple Workflow Service (Amazon SWF)
- Use AWS Identity and Access Management (IAM) for service authentication
- Use Web Identity Framework and Amazon Cognito for user authentication
- Use Amazon ElastiCache and Amazon CloudFront to improve application scalability
- Deploy applications by using AWS Elastic Beanstalk and AWS CloudFormation

## Prerequisites

We recommend that attendees of this course have:

- Familiarity with AWS services
- A working knowledge of Java, C#/Net, or Python

## Intended Audience

This course is intended for:

- Intermediate-level software developers

## Hands-On Activity

This course allows you to test new skills and apply knowledge to your working environment through a variety of practical exercises.

## Bring Your Own Device

Please note that this class requires you to bring your own device. Plan to come to class with the following:

- A notebook computer with Wi-Fi (labs cannot be completed on an iPad or tablet device)
- Administrator access to the computer, if Windows
- Chrome, Firefox, or Safari
- Smart device / tablet to access course literature (optional)

## Day 1

### Building the Foundation

- ✓ Introduction to Developing on AWS
- ✓ Choosing a Data Store
- ✓ Developing Storage Solutions with Amazon S3
- ✓ Developing Flexible NoSQL

## Day 2

### Connecting Applications and Data with Event-Driven Processing

- ✓ Working with Events
- ✓ Developing Event-Driven Solutions with Amazon Kinesis Stream
- ✓ Developing Event-Driven Solutions with Amazon SWF, Amazon SQS, Amazon SNS
- ✓ Developing Event-Driven Solutions with AWS Lambda

## Day 3

### Developing and Deploying Secure, Scalable Applications

- ✓ Developing Secure Applications
- ✓ Caching Information for Scalability
- ✓ Monitoring Your Application and AWS Resources with Amazon CloudWatch
- ✓ Deploying Applications with AWS Elastic Beanstalk and AWS Formation

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