

# AWS Technical Essentials

1-day fast track introduction to Amazon Web Services

Duration: 1 Day

AWS Technical Essentials is the ideal course for anyone who wishes to get started quickly on the AWS platform. It is an introductory 1-day course designed to bring candidates quickly up-to-speed on cloud computing virtual machines, storage, security and networking concepts.

This unique ALC course outlines the cloud computing characteristics, services models and deployment models outlined by the National Institute for Standards and Technology (NIST), combined with an understanding of AWS services using practical exercises. The course also includes a primer on enabling a DevOps culture using AWS tools.

This course is a pre-requisite for the Architecting on AWS 3-day course.

## Who Should Attend

- Individuals and organisations seeking an advanced understanding of Amazon Web Services
- Managers responsible for staff working on Amazon Web Services initiatives or projects
- Technical staff involved in Amazon Web Services initiatives or projects, such as technical project managers, business analysts, security architects, enterprise architects, solution architects and infrastructure architects

## Learning Outcomes

- Recognise AWS platform terminology, key concepts and navigate the AWS Management Console
- Understand the foundational services relating to compute, storage and networking
- Understand the AWS security controls and key concepts relating to identity and access management
- Understand the core AWS database services
- Understand the basics of key AWS management tools
- Understand the key concepts around using AWS software development kits and enabling a DevOps culture

## Course Contents

### 1. Introduction to Cloud Computing

- History of cloud computing
- Benefits of cloud computing
- Five cloud characteristics (NIST)
- Three cloud service models (NIST)
- Four cloud deployment models (NIST)

### 2. Introduction to Amazon Web Services

- Overview of AWS Core Concepts, Key Services and Terminology
- Navigating the AWS Management Console

### 3. AWS Security, Identity & Access Management

- Understanding users, groups, policies and roles
- Understanding multi-factor authentication (MFA)

### 4. AWS Infrastructure: Compute, Storage & Networking

- Amazon Elastic Compute Cloud (EC2)
- Amazon Virtual Private Cloud (VPC)
- Amazon Simple Storage Service (S3)
- Amazon Elastic Block Store (EBS)

### 5. AWS Database Services

- Amazon DynamoDB
- Amazon Relational Database Services (RDS)

### 6. AWS Management Tools

- Auto Scaling
- Amazon CloudWatch
- Elastic Load Balancing (ELB)
- AWS Trusted Advisor.

### 7. AWS and DevOps

- Overview of a DevOps culture.
- AWS Toolchain Components.
- AWS Command Line Interface (CLI)
- AWS Software Development Kits.

## Pre-Requisites

Candidates should ideally have at least 2 years of IT experience