

AWS Essentials-Build, Scale and Innovate

Course description: AWS Essentials introduces the core AWS services and common solution patterns. You will learn foundational concepts across compute, databases, storage, networking, monitoring, and security through hands-on activities in the AWS environment. The course builds your understanding of key AWS services so you can make informed decisions that align with business requirements. By the end of the course, you will be able to evaluate and apply approaches for building cloud solutions that are highly available, fault tolerant, scalable, and cost effective.

- Course level: Fundamental
- Duration: 1 day

Course objectives In this course, you will learn to:

- Explain core AWS terms and concepts
- Use the AWS Management Console to find and manage services
- Describe AWS security basics and IAM
- Compare AWS compute options (EC2, Lambda, ECS, EKS)
- Identify AWS storage and database services (S3, RDS, DynamoDB)
- Understand AWS networking basics
- Set up basic monitoring with Amazon CloudWatch

Intended audience

This course is intended for:

- Professionals who need to explain AWS technical benefits to customers
- Anyone getting started with AWS
- SysOps administrators
- Solutions architects
- Developers

Prerequisites We recommend that attendees of this course have:

- General IT experience
- Basic understanding of data center components (servers, networking, databases, applications)
- No prior AWS or cloud experience required

Course Outline

Module 1: Introduction to Amazon Web Services

- Cloud computing overview
- AWS global infrastructure overview
- Managing AWS services
- Security and the shared responsibility model
- IAM basics
- Hands-on lab: Getting started with IAM

Module 2: AWS Compute

- AWS compute overview
- Amazon EC2 fundamentals
- EC2 instance lifecycle
- AWS container services overview
- Serverless computing basics
- AWS Lambda basics

Module 3: AWS Networking

- Amazon VPC overview
- AWS Direct Connect overview
- VPC routing basics
- Route tables demonstration
- Network ACLs basics
- VPC security basics
- Hands-on lab: Create a VPC and launch an EC2 web app

Module 4: AWS Storage

- AWS Storage Options
- Amazon EC2 Instance Storage & Amazon Elastic Block Store (EBS)
- Object Storage with Amazon S3
- Hands-on Lab: Getting started with Amazon S3

Module 5: Databases

- Advantages of Using Databases in AWS
- Amazon Relational Database Service (RDS)
- Getting Started with Amazon DynamoDB
- Hands-On Lab: Getting started with DynamoDB Table

Module 6: Monitoring

- Importance of Monitoring
- Amazon CloudWatch (Logs, Metrics and Alarms)
- Amazon CloudTrail