



# AWS Technical Essentials

## Course Overview

In this introductory course, you will learn about AWS products, services, and common solutions. You will learn the fundamentals of identifying AWS services so that you can make informed decisions about IT solutions based on your business requirements.

You will learn how to:

- Terminology and concepts related to the AWS platform.
- How to navigate the AWS Management Console.
- Key concepts of AWS security measures and AWS IAM (Identity and Access Management).
- Distinguish between essential AWS services, including:
  - Foundational services: Amazon EC2 (Elastic Compute Cloud), Amazon VPC. (Virtual Private Cloud), Amazon S3 (Simple Storage Service), and Amazon EBS (Elastic Block Store).
  - Database services: Amazon DynamoDB and Amazon RDS (Relational Database Service).
  - Management services: including AWS Auto Scaling, Amazon CloudWatch, ELB (Elastic Load Balancing), and AWS Trusted Advisor.

## Target Audience

Individuals responsible for articulating the technical benefits of AWS services to customers

Individuals interested in learning how to get started with AWS

SysOps administrators

Solutions architects

Developers

## Course Objectives

- Create an Amazon Machine Image (AMI) from a running instance.
- Create a load balancer.
- Create a launch configuration and an Auto Scaling group.
- Automatically scale new instances within a private subnet
- Create Amazon CloudWatch alarms and monitor performance of your infrastructure

## Prerequisites

- IT experience
- Basic knowledge of common data center architectures and components (servers, networking, databases, applications, and so on)
- No prior cloud computing or AWS experience required

## Duration

1 Day

## Certifications

AWS Certified Cloud Practitioner

## Contact Us

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## Course Outline

### Module 1: Introduction to Amazon Web Services

- Introduction to AWS Cloud
- Security in the AWS Cloud
- Hosting the employee directory application in AWS
- Hands-On Lab: Introduction to AWS Identity and Access Management (IAM)

### Module 2: AWS Compute

- Compute as a service in AWS
- Introduction to Amazon Elastic Compute Cloud
- Amazon EC2 instance lifecycle
- AWS container services
- What is serverless?
- Introduction to AWS Lambda
- Choose the right compute service
- Hands-On Lab: Launch the Employee Directory Application on Amazon EC2

### Module 3: AWS Networking

- Networking in AWS
- Introduction to Amazon Virtual Private Cloud (Amazon VPC)
- Amazon VPC routing
- Amazon VPC security
- Hands-On Lab: Create a VPC and Relaunch the Corporate Directory Application in Amazon EC2

### Module 4: AWS Storage

- AWS storage types
- Amazon EC2 instance storage and Amazon Elastic Block Store (Amazon EBS)
- Object storage with Amazon S3
- Choose the right storage service
- Hands-On Lab: Create an Amazon S3 Bucket

### Module 5: Databases

- Explore databases in AWS
- Amazon Relational Database Service
- Purpose-built databases
- Introduction to Amazon DynamoDB
- Choose the right AWS database service
- Hands-On Lab: Implement and manage Amazon DynamoDB

### Module 6: Monitoring, Optimization, and Serverless

- Monitoring
- Optimization
- Alternate serverless employee directory application architecture
- Hands-On Lab: Configure High Availability for Your Application

### Module 7: Course Summary

