AW-ESS
AWS TECHNICAL ESSENTIALS

DURATION	LEVEL	TECHNOLOGY	DELIVERY METHOD	TRAINING CREDITS
1 Day	Fundamental	AWS	Instructor-led	NA

INTRODUCTION

AWS Technical Essentials introduces you to essential AWS services and common solutions. The course covers the fundamental AWS concepts related to compute, database, storage, networking, monitoring, and security. You will start working in AWS through hands-on course experiences. The course covers the concepts necessary to increase your understanding of AWS services, so that you can make informed decisions about solutions that meet business requirements. Throughout the course, you will gain information on how to build, compare, and apply highly available, fault tolerant, scalable, and cost-effective cloud solutions.

AUDIENCE PROFILE

This course is intended for cloud architects, solutions architects, and anyone who designs solutions for cloud infrastructures.

- 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

PREREQUISITES

Before attending this course, delegates must:

- 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

COURSE OBJECTIVES

After completing this course, students will be able to:

- Review the AWS Well-Architected Framework to ensure understanding of best cloud design practices by responding to poll questions while following a graphic presentation
- Describe terminology and concepts related to AWS services
- Navigate the AWS Management Console
- Articulate key concepts of AWS security measures and AWS Identity and Access Management (IAM)
- Distinguish among several AWS compute services, including Amazon Elastic Compute Cloud (Amazon EC2), AWS Lambda, Amazon Elastic Container Service (Amazon ECS), and Amazon Elastic Kubernetes Service (Amazon EKS)
- Understand AWS database and storage offerings, including Amazon Relational Database Service (Amazon RDS), Amazon DynamoDB, and Amazon Simple Storage Service (Amazon S3)
- Explore AWS networking services
- Access and configure Amazon CloudWatch monitoring features

COURSE CONTENT

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

ASSOCIATED CERTIFICATIONS & EXAM

This course will prepare delegates to write the AWS Certified Solutions Architect - Professional exam.