AWS Technical Essentials

Course Duration: 8 Hours (1 Day)

Overview

The AWS Technical Essentials course is designed to introduce the fundamental concepts and infrastructure of Amazon Web Services to learners. It provides a comprehensive overview of the AWS platform, including navigating the AWS Management Console, understanding Core AWS services such as EC2, VPC, S3, and EBS, and grasping the security measures implemented by AWS. By participating in this course, learners will be able to recognize AWS terminology, understand the significance of AWS global infrastructure, and become familiar with the foundational services that form the building blocks of AWS solutions. The course is ideal for individuals who aim to articulate technical benefits of AWS to customers, those starting with AWS, SysOps administrators, solution architects, and developers. Hands-on lab experiences and demonstrations throughout the course modules ensure that participants gain practical skills in addition to theoretical knowledge. By the end of the AWS Technical Essentials course, learners will have a solid foundation to efficiently deploy, manage, and Operate on the AWS platform.

Audience Profile

The AWS Technical Essentials course from Koenig Solutions offers foundational AWS knowledge, ideal for IT professionals seeking cloud expertise.

- IT Managers looking to understand AWS services for organizational adoption
- System Administrators aiming to manage cloud infrastructures
- Solution Architects considering AWS for designing scalable systems
- Developers interested in deploying applications on AWS
- Technical Support Staff seeking to improve their support for AWS-based systems
- Project Managers needing familiarity with AWS for project planning
- AWS Beginners aspiring to gain technical knowledge of AWS services
- IT Professionals wanting to transition to cloud-based solutions
- Business Analysts seeking to understand AWS for better technology decision-making
- Network Engineers looking to expand their skills into cloud networking
- Security Specialists aiming to understand AWS security mechanisms and best practices
- Database Administrators interested in AWS database offerings and migrations
- Technical Sales Specialists requiring knowledge to discuss AWS solutions with clients

Course Syllabus

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