

AWS Certified SysOps Administrator Associate (SOA-C01)

Introduction

The AWS Certified SysOps Administrator - Associate (SOA-C01) examination is intended for individuals who have technical expertise in deployment, management, and operations on AWS.

It validates an examinee's ability to:

- Deploy, manage, and operate scalable, highly available, and fault-tolerant systems on AWS.
- Implement and control the flow of data to and from AWS.
- Select the appropriate AWS service based on compute, data, or security requirements.
- Identify appropriate use of AWS operational best practices.
- Estimate AWS usage costs and identify operational cost control mechanisms.
- Migrate on-premises workloads to AWS.

Course Objective

This course teaches you about core aspects such as:

- Managing, deploying, and operating highly available, scalable, and error-free systems on AWS
- Implementing and controlling the data flow to and from AWS
- Selecting the most appropriate AWS service based on security and computation requirements
- Usage of AWS operational best practices
- Developing the most appropriate cost control mechanism
- Migrating on-premises workloads to AWS

Course Outline

Domain 1: Monitoring and Reporting

- 1.1 Create and maintain metrics and alarms utilizing AWS monitoring services
- 1.2 Recognize and differentiate performance and availability metrics
- 1.3 Perform the steps necessary to remediate based on performance and availability metrics

Domain 2: High Availability

- 2.1 Implement scalability and elasticity based on the use case
- 2.2 Recognize and differentiate highly available and resilient environments on AWS

Domain 3: Deployment and Provisioning

- 3.1 Identify and execute steps required to provision cloud resources
- 3.2 Identify and remediate deployment issues

Domain 4: Storage and Data Management

- 4.1 Create and manage data retention
- 4.2 Identify and implement data protection, encryption, and capacity planning needs

Domain 5: Security and Compliance

- 5.1 Implement and manage security policies on AWS
- 5.2 Implement access controls when using AWS
- 5.3 Differentiate between the roles and responsibility within the shared responsibility model

Prerequisites

- Attended the AWS Essentials course
- Background in either software development or systems administration
- Some experience with maintaining operating systems at the command line (shell scripting in Linux environments, cmd or PowerShell in Windows)
- Basic knowledge of networking protocols (TCP/IP, HTTP)

Target Audience

- System Administrators
- Software Developers, especially those in a Developer Operations (DevOps) role

Duration

- 24 Hours Training Course