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Register

AWS CloudOps Engineer Associate Certification Training

4 days (28 hours)

Overview

AWS Certified CloudOps Engineer – Associate is a certification that validates the skills needed to operate, maintain, and scale reliable, secure, and high-performance AWS environments. It is intended for professionals responsible for cloud operations and service continuity in production.

This four-day certification training provides a comprehensive and operational overview of the role of CloudOps Engineer. It covers all AWS operations activities: monitoring, incident management, automation, operational security, performance and cost optimization.

You will learn how to design highly available architectures, implement effective observability, automate recurring operations, and apply FinOps and SRE best practices tailored to AWS cloud environments.

By the end of this training, you will be able to operate AWS platforms in real production conditions, improve system reliability and performance, and be well prepared to take the AWS Certified CloudOps Engineer – Associate (SOA-C03) exam.

Like all our training courses, this one is based on the latest AWS SOA-C03 certification framework.

Objectives

- Understand the role and responsibilities of a CloudOps Engineer on AWS.
- Operate and maintain highly available AWS architectures.
- Implement effective observability (monitoring, logs, alerting).
- Automate operations and secure cloud environments.

- Optimize performance, reliability, and costs.
- Effectively prepare for SOA-C03 certification.

Target audience

- AWS Cloud Administrators
- Cloud/Ops engineers
- SRE and DevOps profiles focused on operations
- AWS support and production engineers

Prerequisites

- Basic knowledge of AWS
- Basic knowledge of system and network administration
- Experience in operating IT environments

Training program AWS CloudOps Engineer Associate Certification (SOA-C03)

[Day 1 - Morning]

CloudOps fundamentals and responsibilities on AWS

- Role of the CloudOps Engineer and scope of SOA-C03
- Differences between CloudOps, DevOps, and SRE
- Principles of high availability and resilience
- SLA, SLO, SLI, and operational indicators
- AWS best practices
- Hands-on workshop: Identifying CloudOps responsibilities.

[Day 1 - Afternoon]

Resilient architecture and high availability

- Regions and Availability Zones
- Fault-tolerant design
- Load balancing and Auto Scaling
- Capacity Management
- Disaster recovery patterns
- Hands-on workshop: Designing a resilient AWS architecture.

Incident management and service continuity

- Types of cloud incidents
- Incident response process
- Failure management and escalation
- Disaster recovery plans (DRP/BCP)
- Post-mortem and continuous improvement
- Hands-on workshop: Simulating an AWS incident.

[Day 2 - Morning]

Observability, monitoring, and alerting

- Cloud observability concepts
- Metrics, logs, and traces
- Availability monitoring
- Alerting and thresholds
- Operational best practices
- Hands-on workshop: Defining a monitoring strategy.

[Day 2 - Afternoon]

Log management and operational analysis

- Centralization and retention of logs
- Application and system log analysis
- Anomaly detection
- Event correlation
- Incident diagnosis
- Hands-on workshop: AWS log analysis.

Operational security and compliance

- AWS shared responsibility
- Access and identity security
- Secret and key management
- Security monitoring
- Compliance best practices
- Hands-on workshop: Identifying security risks.

[Day 3 - Morning]

Cloud Operations Automation

- Automation of recurring tasks
- Change management

- Infrastructure as Code
- Reduction of human error
- CloudOps best practices
- Hands-on workshop: Automation workflow.

[Day 3 - Afternoon]

Update and change management

- Patch management on AWS
- Zero-downtime deployments
- Rollback and rollback strategies
- Environment management
- Operational risk reduction
- Hands-on workshop: Update strategy.

Performance and capacity optimization

- Application performance analysis
- Capacity management
- Identifying bottlenecks
- Continuous optimization
- Performance indicators
- Hands-on workshop: Performance diagnostics.

[Day 4 - Morning]

Cost optimization and FinOps

- Understanding AWS billing
- Cost analysis and monitoring
- Resource optimization
- Cost/performance trade-offs
- FinOps best practices
- Hands-on workshop: Cost reduction.

[Day 4 - Afternoon]

Reliability, continuous improvement, and runbooks

- Creating and maintaining runbooks
- Standardization of operations
- Capitalizing on incidents
- Continuous improvement
- Industrialization of operations

- Practical workshop: Building a runbook.

Certification preparation and mock exam

- Structure and areas covered by the SOA-C03 exam
- Types of questions and common pitfalls
- Methodology for reading scenarios
- Time management
- Targeted revisions
- Practical workshop: Mock exam + correction.

Companies concerned

This training is aimed at both individuals and companies, large or small, wishing to train their teams in new advanced IT technology or to acquire specific professional knowledge or modern methods.

Placement at the start of training

The placement test at the start of the training course complies with Qualiopi quality criteria. Upon final registration, learners receive a self-assessment questionnaire that allows us to assess their estimated level of proficiency in different types of technologies, as well as their expectations and personal objectives for the upcoming training course, within the limits imposed by the selected format. This questionnaire also allows us to anticipate certain connection or internal security issues within the company (intra-company or virtual classroom) that could be problematic for the monitoring and smooth running of the training session.

Teaching methods

Practical training: 60% practical, 40% theory. Training materials distributed in digital format to all participants.

Organization

The course alternates between theoretical input from the trainer, supported by examples and discussion sessions, and group work.

Assessment

At the end of the session, a multiple-choice questionnaire is used to verify that the skills have been correctly acquired.

Certification

A certificate will be issued to each trainee who has completed the entire training course.