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Register

AWS DevOps Engineer Professional Certification Training

3 days (21 hours)

Overview

AWS Certified DevOps Engineer - Professional is an advanced certification for professionals who already have a strong understanding of AWS environments and want to validate their expertise in automation, continuous integration, continuous deployment, observability, and application resilience.

This certification is intended for complex production environments where reliability, speed of delivery, and security are critical issues.

Our training will enable you to design, automate, and operate robust AWS platforms by applying DevOps and DevSecOps best practices.

You will learn how to industrialize deployments using advanced CI/CD pipelines, automate infrastructure with Infrastructure as Code, effectively monitor systems, and manage incidents in production.

The training focuses on real-world scenarios encountered in business, technical trade-offs, and operational constraints assessed in the DOP-C02 exam.

Like all our training courses, this one is based on the latest AWS DOP-C02 certification framework DOP-C02 certification and takes a practical, operational, and decision-making approach.

Objectives

- Automate AWS infrastructures with advanced DevOps practices.
- Design and secure complex CI/CD pipelines.
- Implement observability, resilience, and self-healing.
- Optimize the performance and costs of AWS platforms.
- Effectively prepare for the AWS DOP-C02 exam.

Target audience

- Experienced DevOps engineers
- Cloud engineers/platform engineers
- SRE

Prerequisites

- Solid experience with AWS in a production environment
- Proficiency in DevOps and CI/CD concepts
- Knowledge of automation and cloud computing

AWS Certified DevOps Engineer - Professional (DOP-C02) training

[Day 1 - Morning]

DevOps culture and Professional-level requirements

- Positioning of the DevOps Engineer Professional role
- Key differences between Associate and Professional levels
- DevOps responsibilities in an AWS production environment
- Business constraints: reliability, speed, security
- Reading complex exam scenarios

[Day 1 - Afternoon]

Automation of AWS infrastructure

- Principles of Infrastructure as Code
- Advanced use of CloudFormation
- Managing complex stacks and dependencies
- Multi-environment deployments
- AWS automation best practices
- Hands-on workshop: Analysis and optimization of a CloudFormation template.

Configuration management and standardization

- Standardization of AWS environments
- Parameter management with SSM Parameter Store
- Secret management with Secrets Manager

- Automation of system configurations
- Reduction of configuration drift

[Day 2 - Morning]

Advanced CI/CD pipelines on AWS

- Scalability-oriented CI/CD principles
- CodePipeline, CodeBuild, and CodeDeploy services
- Blue/Green and Canary Deployments
- Rollback management
- Pipeline security
- Hands-on workshop: Analysis of an AWS CI/CD pipeline.

[Day 2 - Afternoon]

Observability, monitoring, and alerting

- Observability concepts
- Metrics, logs, and traces
- Monitoring with CloudWatch
- Centralization of logs
- Relevant and actionable alerts

High availability and application resilience

- Highly available architectures
- Incident management
- Self-healing strategies
- Resilience testing
- Technical/business alignment

[Day 3 - Morning]

DevOps security and AWS compliance

- Security integration in pipelines
- Advanced IAM identity management
- Securing workloads
- Auditing with CloudTrail
- DevSecOps best practices
- Hands-on workshop: Security incident analysis.

[Day 3 - Afternoon]

Performance and cost optimization

- DevOps cost analysis
- Pipeline optimization
- Cost Explorer and Budgets
- Cost/performance trade-offs
- DevOps anti-patterns

Intensive preparation for the AWS DOP-C02 exam

- Exam structure and expectations
- Analysis of complex scenarios
- Pitfalls and keywords
- Reasoning methodology
- Practical workshop: Preparation for the mock exam + correction.

Target companies

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.

Positioning at the start of training

The positioning at the start of the training complies with Qualiopi quality criteria. Upon final registration, the learner receives 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, 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.