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Register

AWS Solutions Architect Professional Certification Training

3 days (21 hours)

Overview

AWS Certified Solutions Architect - Professional is an advanced certification dedicated to designing complex, secure, and highly available cloud architectures on the AWS platform. It validates the ability to design, deploy, and optimize large-scale cloud infrastructures that meet high business, technical, and regulatory requirements.

Our AWS Certified Solutions Architect - Professional training will enable you to master the design of advanced, multi-account, and multi-region distributed architectures, integrating AWS best practices in security, performance, resilience, and cost optimization.

You will learn how to analyze complex architectures, choose the most appropriate AWS services, and justify your technical decisions in a demanding professional context, based on scenarios similar to those found in the SAP-C02 exam.

At the end of the training, you will be able to design a robust target architecture, formalize a high availability and disaster recovery strategy, automate the infrastructure, and effectively prepare for Professional-level questions.

Like all our training courses, this one is based on the **latest** [SAP-C02 certification framework](#) and focuses on a decidedly practical and operational approach.

Objectives

- Design complex, scalable, and resilient AWS architectures.
- Implement multi-account governance and advanced security.
- Define high availability and disaster recovery strategies.
- Optimize the performance and costs of an AWS architecture.

- Apply an effective methodology for resolving SAP-C02 scenarios.

Target audience

- Experienced cloud architects
- Senior DevOps/Cloud engineers
- Cloud consultants
- Tech leads and technical managers

Prerequisites

- Excellent knowledge of AWS and its main services
- Significant experience in cloud architecture in a production environment
- Solid knowledge of networking, security, and high availability

AWS Certified Solutions Architect - Professional (SAP-C02) training

[Day 1 - Morning]

Designing large-scale AWS architectures

- Role of the AWS Professional Architect
- Analysis of business and technical constraints
- Choosing AWS services suited to complex scenarios
- Trade-offs between scalability, resilience, and costs
- Reading and breaking down advanced architectures
- Hands-on workshop: Analysis of an SAP scenario and design of a target architecture.

[Day 1 - Afternoon]

Multi-account governance and advanced security

- Multi-account strategies with AWS Organizations
- Implementation of SCPs and separation of environments
- Advanced identity management with IAM
- Securing access and secrets (KMS, Secrets Manager)
- Audit and compliance with CloudTrail and AWS Config

Hybrid and multi-region network architectures

- Complex VPC design
- Interconnection via Transit Gateway
- Hybrid connectivity (VPN, Direct Connect)
- Global routing and latency management
- Multi-layer network security

[Day 2 - Morning]

High availability and disaster recovery

- Multi-AZ and multi-region architectures
- RTO/RPO strategies
- Backup & Restore, Pilot Light, Warm Standby patterns
- Automatic failover and resilience testing
- Choice of strategy based on business constraints
- Hands-on workshop: Defining a disaster recovery strategy for a real-world scenario.

[Day 2 - Afternoon]

Advanced scalability and performance

- Horizontal and vertical scalability
- Auto Scaling Groups and advanced strategies
- Load balancing with ALB, NLB
- Network and Application Optimization
- Caching with CloudFront and ElastiCache

Storage architectures and databases

- Selection of S3, EBS, EFS, FSx solutions
- Relational databases (RDS, Aurora) and NoSQL (DynamoDB)
- Replication, consistency, and performance
- Multi-region storage and durability
- Choosing the engine based on the exam scenario

[Day 3 - Morning]

Automation and modernization of architectures

- Infrastructure as Code with CloudFormation
- Principles of automated deployment
- Serverless architectures
- Containerization with ECS and EKS

- Application modernization strategies
- Hands-on workshop: Analysis of a complex migration scenario.

[Day 3 - Afternoon]

Cost optimization and financial governance

- AWS billing analysis
- Cost Explorer and Budgets
- Cost/performance/resilience trade-offs
- Common anti-patterns under review
- Integration of FinOps principles

Intensive preparation for the AWS SAP-C02 exam

- Structure and expectations of the AWS Certified Solutions Architect - Professional exam
- Methodology for analyzing long questions
- Identifying keywords and common pitfalls
- Time management strategies
- Practical workshop: Preparation for the 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. Once they have finalized their 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 reflection sessions, and group work.

Validation

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.