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Register

# AWS Certified Solutions Architect - Associate Training

ALL-IN-ONE: EXAM INCLUDED IN THE PRICE

3 days (21 hours)

## Overview

The AWS Certified Solutions Architect - Associate certification validates your ability to design secure, resilient, and cost-optimized architectures on AWS. The training focuses on concrete use cases: application migration, high availability, storage, and networking.

During our training, you will learn how to select the right services (compute, storage, network, security) and justify your choices based on business requirements. The approach focuses on architecture patterns, Well-Architected best practices, and common exam pitfalls.

Each module alternates between demos and workshops in the console and CLI: VPC, IAM, EC2, ALB, Auto Scaling, RDS, S3, CloudFront, CloudWatch. Deliverables: an architecture memo, security/cost checklists, and a series of corrected exam-style questions.

## Objectives

- Design a highly available and fault-tolerant AWS architecture.
- Configure the network (VPC, subnets, routing) and hybrid connectivity.
- Implement identity and security (IAM, KMS, best practices).
- Choose storage and database services suited to your needs.
- Optimize performance, costs, and observability (CloudWatch, tagging, budgets).

## Target audience

- Cloud architects and engineers
- System administrators/ops transitioning to AWS

- Developers wishing to industrialize deployment on AWS
- Technical project managers involved in architecture choices

## Prerequisites

- Basic knowledge of IP networks (CIDR, routing, DNS)
- Basic knowledge of Linux/Windows and command line
- Understanding of web concepts (HTTP/HTTPS, load balancing)
- Basic knowledge of virtualization and security (encryption, roles)

## Technical prerequisites

- PC/Mac with at least 8 GB RAM (16 GB recommended)
- OS: Windows 10/11, macOS, or Linux
- Recent browser and stable internet access
- AWS account with administrator rights on a test environment
- Tools: AWS CLI, code editor, terminal

## AWS Certified Solutions Architect training program - Associate

[Day 1 - Morning]

### AWS Fundamentals and Well-Architected Framework

- Understanding the shared responsibility model and key AWS services
- Mastering the concepts of Regions, AZs, Edge locations, and location choices
- Discover the six pillars of the AWS Well-Architected Framework and their architectural impacts
- Identify basic patterns: high availability, fault tolerance, scalability
- Hands-on workshop: Getting started with the AWS console and guided reading of a simplified Well-Architected review.

[Day 1 - Afternoon]

### AWS network: VPC, subnets, and connectivity

- Designing a VPC: CIDR, public/private subnets, routing tables
- Configuring Internet Gateway, NAT Gateway, and secure outbound flows
- Implementing network security: Security Groups vs. NACL
- Connectivity and DNS: Route 53, resolutions, records, and health checks
- Hands-on workshop: Create a 2-tier VPC (public/private) with NAT and minimum security rules.

## [Day 2 - Morning]

### Compute: EC2, Auto Scaling, and load balancing

- Choosing an EC2 instance: families, sizing, placement, and best practices
- Understanding AMI, EBS, user data, and deployment strategies
- Implement Auto Scaling Groups: policies, health checks, cooldown
- Configuring an Elastic Load Balancer (ALB/NLB): listeners, target groups, sticky sessions
- Hands-on workshop: Deploying a web application behind an ALB with multi-AZ Auto Scaling.

## [Day 2 - Afternoon]

### Storage and databases: S3, EBS/EFS, RDS, and DynamoDB

- Designing with S3: storage classes, versioning, lifecycle, encryption
- Compare EBS vs. EFS: performance, sharing, use cases
- Setting up RDS: Multi-AZ, read replicas, backups, and restore
- Deciding between DynamoDB and RDS: data model, performance, costs
- Hands-on workshop: Hosting assets on S3 (policies + encryption) and deploying a Multi-AZ RDS database.

## [Day 3 - Morning]

### Security, identity, and governance: IAM, KMS, and auditing

- Structure IAM: users, groups, roles, policies, and the principle of least privilege
- Managing application access: EC2 roles, federation, cross-account access
- Encryption and keys: KMS, rotation, encryption envelope, secrets
- Traceability and compliance: CloudTrail, Config, logs, and alerting
- Hands-on workshop: Create an IAM role for an EC2 instance accessing S3, with CloudTrail logs enabled.

## [Day 3 - Afternoon]

### Resilient architectures, cost optimization, and exam preparation

- Designing resilience: Multi-AZ vs. Multi-Region, Route 53 failover, and DR strategies
- Integration and decoupling: SQS, SNS, asynchronous patterns
- Observability: CloudWatch metrics/logs/alarms, dashboards, and SLOs
- Cost optimization: pricing models, Reserved Instances, Savings Plans, right-sizing
- Hands-on workshop: Exam-style case study (complete architecture) + timed mini-quiz and correction.

## Companies involved

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.