BLACKBIRD FOR TRAINING

AWS Certified Solutions Architect – Associate Exam Preparation

18 – 22 October 2027
Barcelona (Spain)



AWS Certified Solutions Architect – Associate Exam Preparation

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Why This Course

Cloud computing is at the heart of digital transformation, and Amazon Web Services AWS remains the global leader in cloud infrastructure and innovation.

The AWS Certified Solutions Architect - Associate certification validates the ability to design, deploy, and manage secure, scalable, and cost-efficient cloud architectures — making it one of the most valuable credentials in the IT industry.

This intensive program equips participants with the essential knowledge, skills, and exam strategies to successfully achieve the certification while gaining practical, hands-on expertise in AWS architecture design and best practices.

What You'll Learn and Practice

By joining this program, you will:

- Understand core AWS services, architecture principles, and best practices.
- Learn how to design and deploy highly available, fault-tolerant, and scalable systems.
- Explore networking, storage, compute, and security design patterns in AWS.
- Gain hands-on experience in building and optimizing cloud solutions.
- Prepare thoroughly for the AWS Certified Solutions Architect - Associate exam.

The Program Flow

Day 1: Introduction to AWS & Cloud Architecture Fundamentals

- Overview of AWS global infrastructure and service categories.
- The shared responsibility model and AWS Well-Architected Framework.
- Core compute services: EC2, Elastic Load Balancing ELB, and Auto Scaling.
- Designing for high availability and elasticity.
- Hands-on lab: launching and configuring EC2 instances with load balancing.



Day 2: Storage, Databases, and Networking in AWS

- AWS storage solutions: S3, EBS, EFS, and Glacier — use cases and best practices.
- Data management and backup strategies.
- AWS databases overview: RDS, DynamoDB, Aurora, and Redshift.
- Networking essentials: VPC, subnets, routing tables, NAT gateways, and security groups.
- Hands-on lab: designing a secure VPC with public and private subnets.

Day 3: Security, Identity, and Compliance

- Identity and Access Management IAM: roles, policies, and permissions.
- AWS Key Management Service KMS, encryption, and secrets management.
- Security best practices and compliance frameworks ISO, SOC, GDPR.
- Designing secure access and monitoring solutions.
- Hands-on lab: implementing IAM policies and multi-layer security controls.

Day 4: Application Architecture and Cost Optimization

- Designing resilient architectures using Elastic Beanstalk, Lambda, and API Gateway.
- Managing workloads with CloudFormation and Infrastructure as Code IaC.
- Monitoring and performance optimization with CloudWatch and AWS Trusted Advisor.
- Cost management tools: AWS Pricing Calculator, Cost Explorer, and Reserved Instances.
- Case study: optimizing architecture for performance, reliability, and cost efficiency.

Day 5: Exam Preparation, Review, and Practice Labs

- Review of AWS Certified Solutions Architect - Associate exam domains:
    1. Design Secure Architectures
    2. Design Resilient Architectures
    3. Design High-Performing Architectures
    4. Design Cost-Optimized Architectures
- Sample questions, exam format, and time management strategies.
- Practice exam with guided walkthrough and feedback.
- Action workshop: building a reference architecture using AWS best practices.
- Final review: certification roadmap and next steps toward AWS career advancement.

Individual Impact

- Gain a comprehensive, hands-on understanding of AWS architecture and cloud design.
- Strengthen the ability to build scalable, secure, and cost-efficient cloud solutions.
- Build confidence to pass the AWS Certified Solutions Architect - Associate exam.
- Enhance technical credibility and professional value in the cloud computing domain.
- Develop the skills to support enterprise-level cloud adoption and innovation.



Work Impact

- Strengthen in-house cloud architecture and design expertise.
- Improve infrastructure reliability, scalability, and security through AWS best practices.
- Optimize cloud costs and operational efficiency.
- Increase agility in deploying and managing cloud-based business solutions.
- Support strategic digital transformation through certified AWS professionals.

Training Methodology

This course blends exam-focused preparation with hands-on practical learning to ensure both certification success and real-world readiness.

Learning methods include:

- Guided AWS labs and architecture design exercises.
- Real-world case studies and scenario-based analysis.
- Exam simulation and question breakdown sessions.
- Group discussions on architecture trade-offs and design choices.
- Study templates, reference sheets, and certification readiness checklists.

Beyond the Course

Upon completion, participants will be fully prepared to pass the AWS Certified Solutions Architect - Associate exam and confidently design cloud solutions using AWS best practices.

They will leave ready to contribute to their organization's cloud strategy — driving efficiency, innovation, and scalable success in the digital era.

