

SAP-C02: AWS Solutions Architect – Professional

Design for complex organisations, migrations and modernisation on AWS — and prepare for the demanding SAP-C02 professional exam.

DURATION

4 days · 32 hours

LEVEL

Advanced

CURRICULUM

12 modules · 7 labs

DELIVERYLive online, Onsite,
Corporate

Course overview

At professional level, AWS architecture is less about single services and more about organisations: dozens of accounts, hybrid networks, compliance requirements, legacy estates and teams with different priorities. The SAP-C02 exam reflects this with long scenarios where several answers would work, but only one best fits every constraint. This four-day course is designed to build that judgement.

Day one covers design for organisational complexity: AWS Organizations and Control Tower, network topologies with Transit Gateway and Direct Connect, centralised security and identity, and cost visibility across accounts. Day two focuses on designing new solutions, with deployment strategies, business continuity, performance and security built into the design rather than added later. Day three addresses continuous improvement of existing solutions: operational excellence, reliability, performance and cost reviews. Day four is dedicated to migration and modernisation, from discovery and planning to moving databases and refactoring towards containers and serverless.

Each day mixes whiteboard design sessions with labs. You will build a landing zone with guardrails, connect VPCs through a Transit Gateway, implement cross-Region failover and run a database migration. The trainer uses realistic case scenarios, so you practise defending an architecture, not just recalling a service.

Exam practice runs throughout, with a dedicated session on managing time across long questions. This course is aligned to the SAP-C02 exam and prepares you for it; confirm the current exam guide on the AWS Certification site before booking.

Highlights

- 32 hours of live, scenario-led training over four days
- Multi-account, hybrid and multi-Region architecture labs
- Migration and modernisation strategies in depth
- Covers all four SAP-C02 domains
- Long-form scenario practice with whiteboard reviews

What's included

- Whiteboard design sessions on enterprise scenarios
- Landing zone and multi-account governance labs
- Hybrid connectivity and multi-Region design
- Migration and modernisation planning exercises
- Long-scenario practice with time-management techniques
- Architecture reference diagrams for revision
- Course completion certificate from Ace Skills Consulting
- Post-training doubt support while you prepare

Who this course is for

Who should attend

- Solutions architects with associate-level experience
- Cloud and enterprise architects leading AWS programmes
- Technical leads responsible for migrations
- Consultants designing multi-account AWS environments

Prerequisites

- AWS Solutions Architect – Associate or equivalent knowledge
- Hands-on experience designing and deploying workloads on AWS
- Good understanding of networking, security and databases

Detailed curriculum — 4 days, 32 hours, 12 modules, 7 hands-on labs

Day 1 Design for Organisational Complexity

8 hours

1.1 Multi-account strategy

- AWS Organizations and organisational units
- Service control and resource control policies
- Control Tower and guardrails
- Account vending

LAB Set up a landing zone with Control Tower guardrails · 60 min

1.2 Enterprise networking

- Transit Gateway designs
- Hybrid DNS with Route 53 Resolver
- Direct Connect and Site-to-Site VPN
- Shared VPCs with Resource Access Manager

LAB Connect three VPCs and an on-premises network through Transit Gateway · 55 min

1.3 Centralised security and cost

- IAM Identity Center and federation
- Centralised logging
- Delegated administration for security services
- Cost allocation across accounts

Day 2 Design for New Solutions

8 hours

2.1 Deployment and business continuity

- Deployment strategies for zero downtime
- RTO and RPO driven design
- Multi-Region active-active and active-passive
- Aurora Global Database and DynamoDB global tables

LAB Implement cross-Region failover with Route 53 and Aurora Global Database · 60 min

2.2 Security and performance by design

- Encryption strategy and key management
- Caching and data access patterns
- Edge security with WAF and Shield
- Event-driven and serverless architectures

LAB Protect an application at the edge with CloudFront and WAF · 40 min

2.3 Design reviews

- Choosing between containers and serverless
- Case scenario whiteboard session
- Reliability patterns

Day 3 Continuous Improvement for Existing Solutions

8 hours

3.1 Operational excellence

- Well-Architected reviews
- Automated remediation
- Observability across accounts
- Deployment pipelines for infrastructure

LAB Run a Well-Architected review on a sample workload · 40 min

3.2 Reliability and performance improvement

- Removing single points of failure
- Database performance options
- Scaling bottlenecks

3.3 Cost optimisation

- Savings Plans strategy
- Storage and data transfer optimisation
- Rightsizing and scheduling
- Cost anomaly detection

LAB Build a cost optimisation plan from Cost Explorer data · 35 min

Day 4 Migration, Modernisation & Exam Readiness

8 hours

4.1 Migration planning

- Discovery and portfolio assessment
- Wave planning
- The seven migration strategies
- AWS Migration Hub and Application Migration Service

4.2 Data and application migration

- AWS DMS and Schema Conversion Tool
- Refactoring to containers and serverless
- Large data transfer with DataSync and Snow Family

LAB Migrate a database with AWS DMS · 50 min

4.3 Exam readiness

- Managing time on long scenarios
- Timed practice set with review
- Elimination techniques

Skills and tools

Skills you will build

AWS Organizations

Control Tower

Transit Gateway

Direct Connect

Multi-Region design

Disaster recovery

Migration strategy

AWS DMS

Well-Architected reviews

Cost optimisation

Hybrid DNS

Enterprise security

Tools used in class

AWS Management Console

AWS CLI

AWS Control Tower

AWS Well-Architected Tool

AWS Migration Hub

draw.io

Certification exam

This course is aligned to the exam below and prepares you for it. The exam itself is booked and taken with the vendor.

Exam	AWS Certified Solutions Architect – Professional
Exam code	SAP-C02
Questions	75
Duration	180 minutes
Passing score	750 / 1000 (scaled)
Format	Multiple choice, Multiple response

Delivery	Online proctored, Test centre
Validity	3 years
Official page	https://aws.amazon.com/certification/certified-solutions-architect-professional/

Exam skill areas covered:
 Design for AWS Architectural Complexity
 Accelerate Workload Migration and Modernization

Exam details are pending verification. Confirm the current exam code, format and fee on the official vendor page before booking.

Frequently asked questions

Do I need the associate certification first?

AWS does not require it, but we strongly recommend associate-level knowledge and real project experience before this course.

Why is this exam considered difficult?

Questions are long and several answers are technically valid. The course trains you to find the constraint that makes one answer the best fit.

How long should I prepare after the course?

Most learners spend six to eight weeks revising alongside work, focusing on practice scenarios and weak domains.

Will the course help with real migration projects?

Yes. The migration day uses planning templates and tooling that apply directly to project work.

Can you run this for an architecture team?

Yes. Corporate batches can use your organisation's account structure and migration backlog as case material.

Book a batch or talk to an advisor

Course page: aceskillsconsulting.com/course/sap-c02-aws-solutions-architect-professional · Email: info@aceskillsconsulting.com

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Curriculum generated on 23 Oct 2026; topics and order may be adjusted by the trainer to suit each batch.