AWS Solutions Architect

Design secure, resilient, high-performing and cost-optimised architectures on AWS.

DURATION	FORMAT	LEVEL	LABS
45 hours	Onsite, online or hybrid	Intermediate	Cloud sandbox included

About this programme

For engineers moving into architecture roles: the design principles and the networking, compute, storage, database, security, automation and migration decisions behind well-architected cloud solutions, plus microservices, disaster recovery and cost optimisation.

Who it is for: Cloud engineers, senior developers and aspiring solution architects

What your team will be able to do

- Apply availability, scalability, security and cost principles to designs
- Design VPC networks and compute and storage tiers for a workload
- Choose relational, NoSQL, caching and analytics data services
- Plan migrations and disaster recovery against RTO and RPO targets
- Reduce spend with rightsizing and reserved and spot capacity

Before you start

- Six months or more of hands-on AWS, or our AWS Cloud Practitioner programme
- Networking basics: IP addressing, DNS and HTTP

Course outline

1. Cloud and architecture fundamentals

- Cloud service and deployment models: IaaS, PaaS and SaaS
- Design principles: availability, scalability, elasticity and performance
- Designing for security and cost from the start

2. Networking and compute

- VPC design, network segmentation and DNS
- Load balancing and firewalls
- Choosing virtual machines, containers, Kubernetes or serverless

3. Storage and databases

- Object, block and file storage: tiers, redundancy and encryption
- Relational and NoSQL databases and caching strategies
- Data warehouses and data lakes

4. Security, monitoring and automation

- Identity and access management, encryption and data loss prevention
- Monitoring, logging, alerts and notifications
- Infrastructure as code, CI/CD and configuration management

5. Application architecture

- Microservices: API gateway and service discovery patterns
- Domain-driven design for service boundaries

6. Migration, resilience and cost

- Migration approaches: lift and shift, re-platforming and refactoring
- Disaster recovery planning with RTO and RPO targets
- Cost optimisation: rightsizing, reserved and spot instances

Sample schedule

6 days onsite, or 12 half-day sessions online. We fit days and session lengths to your team's calendar.

Day 1	8 h	Cloud and architecture fundamentals
Day 2	8 h	Networking and compute
Day 3	8 h	Storage and databases
Day 4	8 h	Security, monitoring and automation
Day 5	8 h	Application architecture; Migration, resilience and cost
Day 6	5 h	Migration, resilience and cost (continued)

Assessment and certification

How learning is checked

- A short knowledge check on day one and again at the end, so you can see each person's progress
- Graded hands-on labs in every module, reviewed by the trainer
- A final exercise that applies the programme to a problem like your team's own
- A timed practice exam in the format of the real one, with a review of every answer

Certificate and exams

- Participants who complete the programme receive a Cognitive Networks AI certificate of completion.
- Prepares your team for the AWS Certified Solutions Architect – Associate exam. Exam vouchers are not included: each participant books the exam with Amazon Web Services.

Formats and cohort size

- Onsite: At your office or a venue you choose, in full days.
- Online, live: Instructor-led over video, usually in half-day sessions so people can keep up with work.
- Hybrid: Some days in a room together, the rest online. Useful when a team works across cities.

Cohort size: 15 to 25 people per trainer. Larger teams run as parallel cohorts on the same outline, so everyone learns the same thing.

Pricing: We quote per cohort, based on duration, format and number of cohorts. There is no per-seat price list: tell us your team and we send a proposal within one business day.

Bring this programme to your team

Request a proposal at cognitivenetworks.ai/contact?programme=aws-solutions-architect

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