

Cloud fundamentals with Azure and AWS

Course outline · issued 14 September 2026

Technology areas	Cloud Computing, Microsoft Azure, Amazon Web Services
Level	Foundation
Short course	3 days
One-month track	4 weeks · 16 training days · 96 contact hours
Two-month track	8 weeks · 32 training days · 192 contact hours
Delivery	In person, Virtual, Hybrid
Class size	8 to 20 participants
Certification	Preparation for AZ-900 or AWS Cloud Practitioner
Entry requirements	General ICT familiarity. No cloud experience assumed.

Who it is for

ICT staff and managers evaluating or operating cloud services.

REVENUE USE CASE

Assessing data residency options for hosting taxpayer records.

By the end, participants can

- Explain cloud service and deployment models
- Compare Azure and AWS core services and pricing
- Assess security, residency and compliance considerations

Short course modules (3 days)

1. Cloud concepts and economics
2. Compute, storage and networking
3. Identity and security
4. Governance and cost management
5. Migration planning exercise

One-month track — weeks 1 to 4

4 weeks · 16 training days · 96 contact hours

Week 1 — Cloud concepts and economics

- Service and deployment models
- Capital versus operating expenditure in a public budget
- Shared responsibility and what it means for you
- Cloud in the Nigerian public-sector context

Practical: Build the business-case skeleton for one candidate workload.

Week 2 — Core services on Azure and AWS

- Compute options and when each fits
- Storage classes and data lifecycle
- Networking, subnets and connectivity
- Comparing equivalent services across the two platforms

Practical: Deploy the same simple workload on both platforms.

Week 3 — Identity and security

- Identity, roles and least privilege
- Encryption at rest and in transit
- Network security controls and isolation
- Logging, monitoring and alerting

Practical: Secure the week 2 deployment against a supplied baseline.

Week 4 — Governance, cost and residency

- Tagging, budgets and cost alerts
- Policy, guardrails and landing zones
- Data residency and sovereignty for taxpayer records
- Compliance evidence for auditors

Practical: Produce the residency and cost analysis for your workload.

Checkpoint: the one-month track is assessed [here](#).

Two-month track — continues through weeks 5 to 8

8 weeks · 32 training days · 192 contact hours

Week 5 — Migration planning

- Assessing and grouping workloads
- Rehost, replatform, refactor: choosing honestly
- Data migration and cutover
- Rollback and contingency

Practical: Write the phased migration plan for your workload.

Week 6 — Resilience and continuity

- Availability zones, regions and failover
- Backup, restore and tested recovery
- Recovery objectives that match the service
- Designing for a constrained network

Practical: Design and test a recovery approach for a critical service.

Week 7 — Operating and procuring cloud

- Day-two operations and on-call
- Automation and infrastructure as code basics
- Procuring cloud in a public institution
- Managing a cloud vendor and exit planning

Practical: Draft the operating model and exit plan for the workload.

Week 8 — Capstone and certification preparation

- Consolidating the migration assessment
- Presenting to an ICT steering group
- AZ-900 and AWS Cloud Practitioner syllabus review
- Mock examination and gap closure

Practical: Present the migration assessment and sit a mock fundamentals paper.

Capstone assessment and post-course evaluation.

Capstone

A migration assessment for one agency workload: service mapping, cost model, residency and security analysis, and a phased migration plan.

About this outline

Indicative extended tracks. The one-month track runs weeks 1 to 4; the two-month track continues through week 8 with deeper labs, certification preparation and a capstone. Weeks, contact hours and cohort sizes are finalised with each client.

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