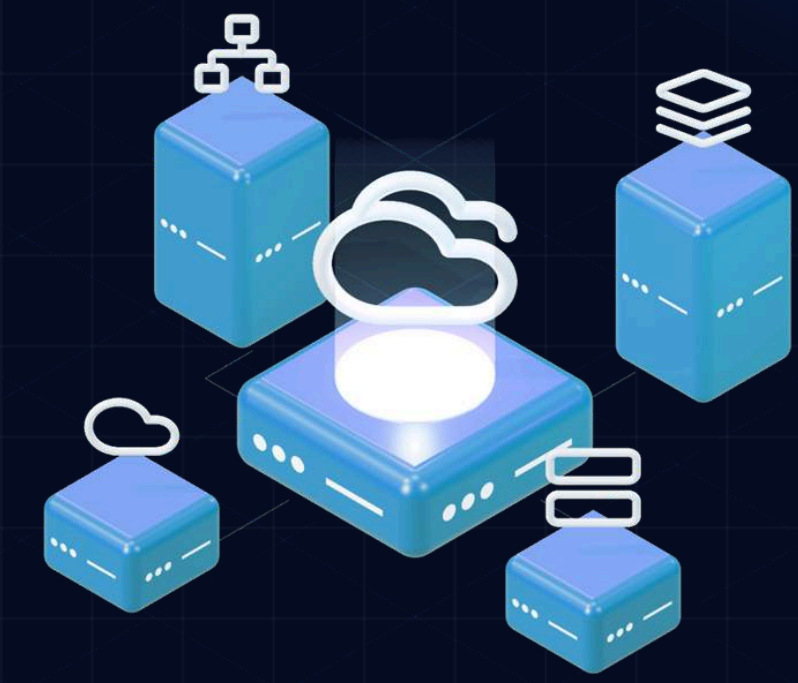
✦ CLOUD COMPUTING · EXPERT

Multi-Cloud Architecture & Strategy

One strategy across many clouds.





80	8	SAM-MCA
HOURS	MODULES	CERTIFICATION

✦ INSIDE THIS BROCHURE

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AT A GLANCE

Level	Expert
Duration	80 Hours
Modules	8
Certificate	SAM-MCA

✦ PROGRAM OVERVIEW

One strategy across many clouds.



Plan workloads, governance and security across AWS, Azure and GCP.

Many organisations now run workloads across AWS, Azure and Google Cloud, whether by design, acquisition or specialised service needs. This expert program teaches architects to define multi-cloud strategy, design portable and interoperable architectures with Kubernetes and Terraform, and govern identity, networking, security, cost and operations consistently across providers. Labs deploy real workloads across all three providers.

LEVEL	DURATION	CERTIFICATION	DELIVERY
Expert	80 Hours	SAM-MCA	ILT · VILT · Blended



✦ WHAT YOU'LL PRACTISE

1. Build a multi-cloud strategy
2. Design portable architectures
3. Govern cost and security across clouds
4. Plan migrations and operations

✦ WHO IT'S FOR

Built for people ready to grow.

01

Beginners & non-tech roles

Cloud fundamentals, AWS CLF, AZ-900, GCP Digital Leader

02

Administrators & SysOps

AZ-104, SOA-C02, GCP ACE

03

Developers

AWS DVA-C02 and AZ-204

04

Architects

SAA, SAP, AZ-305, GCP PCA, multi-cloud

PREREQUISITES

Professional or associate experience on at least one cloud	01
Working knowledge of Kubernetes and Terraform	02
Understanding of enterprise networking and security	03

ROLES YOU CAN TARGET

- Multi-Cloud Architect ↗
- Enterprise Cloud Architect ↗
- Cloud Strategy Consultant ↗
- Platform Engineering Lead ↗
- Cloud Centre of Excellence Lead ↗
- FinOps Lead ↗

✦ LEARNING OUTCOMES

What you'll be able to do.

01 Build a multi-cloud strategy aligned with business and risk goals

02 Design portable architectures using Kubernetes and Terraform

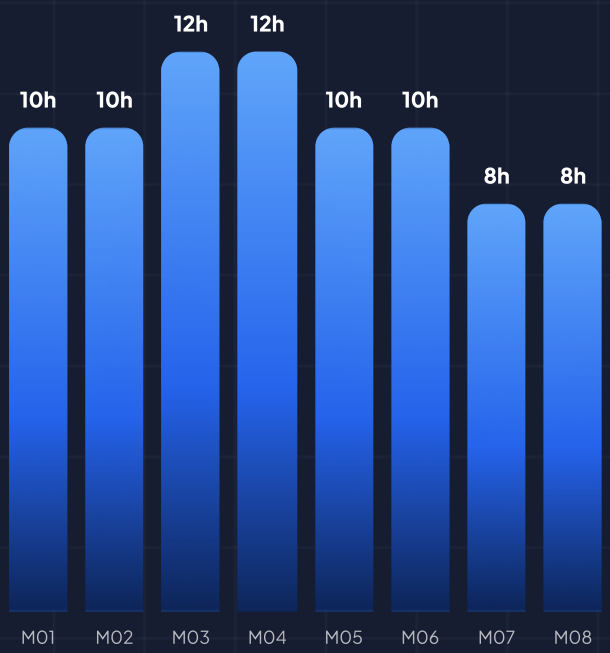
03 Architect secure cross-cloud networking and identity federation

04 Govern cost, security and compliance consistently across providers

05 Plan migrations, data placement and operations across clouds

06 Evaluate trade-offs between portability and cloud-native services

HOURS PER MODULE



✦ PROGRAM RUNWAY

Your journey, module by module.

8
MODULES · 80 HRS

01	**Multi-Cloud Strategy** Drivers: resilience, regulation, best-of-breed, Multi-cloud vs hybrid cloud, Risks, lock-in and complexity	10 hrs
02	**Comparing AWS, Azure and Google Cloud** Service mapping across providers, Global infrastructure differences, Pricing and commercial models	10 hrs
03	**Portable Architecture Design** Kubernetes as a portability layer, EKS, AKS and GKE differences, Containers and service mesh	12 hrs
04	**Infrastructure as Code and Platform Engineering** Terraform multi-provider design, Modules and remote state, GitOps with Argo CD	12 hrs
05	**Cross-Cloud Networking and Identity** Interconnecting clouds: VPN and interconnects, IP planning and DNS across clouds, Identity federation with Entra ID and SSO	10 hrs
06	**Security and Compliance Across Clouds** Unified security posture management, Centralised logging and SIEM, Encryption and key management strategy	10 hrs
07	**FinOps and Multi-Cloud Operations** FinOps framework and practices, Cost visibility and tagging standards, Unified observability with OpenTelemetry	8 hrs
08	**Migration and Operating Model** Migration and repatriation planning, Data migration across clouds, Resilience and failover strategies	8 hrs
★	**Capstone · Enterprise Multi-Cloud Strategy and Blueprint** Assessment, capstone review and certification	

✦ DETAILED CURRICULUM

The syllabus.

Modules 01–03

MODULE 01

Multi-Cloud Strategy

10 hours

Hands-on lab
Build a workload placement matrix for an enterprise application portfolio.

TOPICS COVERED

- Drivers: resilience, regulation, best-of-breed
- Multi-cloud vs hybrid cloud
- Risks, lock-in and complexity
- Workload placement frameworks
- Cloud Centre of Excellence models
- Sovereignty and India DPDP considerations

MODULE 02

Comparing AWS, Azure and Google Cloud

10 hours

Hands-on lab
Map and compare equivalent services for a reference application across three clouds.

TOPICS COVERED

- Service mapping across providers
- Global infrastructure differences
- Pricing and commercial models
- Strengths of each provider
- Managed services trade-offs

AWS · Google Cloud

MODULE 03

Portable Architecture Design

12 hours

Hands-on lab
Deploy the same containerised app to EKS, AKS and GKE.

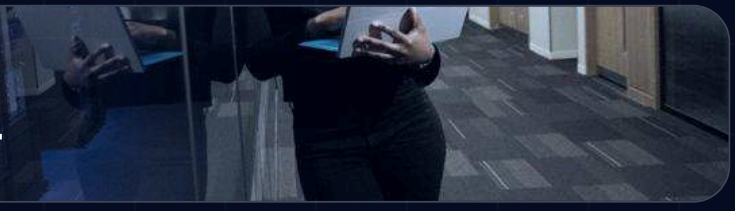
TOPICS COVERED

- Kubernetes as a portability layer
- EKS, AKS and GKE differences
- Containers and service mesh
- Abstraction vs cloud-native trade-offs
- Data portability and gravity
- Event-driven interoperability

Kubernetes

LEARN BY DOING

8 guided labs, one in every module.



✦ DETAILED CURRICULUM

Syllabus, continued.

Modules 04–06

MODULE 04

Infrastructure as Code and Platform Engineering

12 hours

Hands-on lab
Provision equivalent environments in three clouds using shared Terraform modules.

TOPICS COVERED

- Terraform multi-provider design
- Modules and remote state
- GitOps with Argo CD
- Internal developer platforms
- Crossplane overview
- Policy as code with OPA

Terraform

MODULE 05

Cross-Cloud Networking and Identity

10 hours

Hands-on lab
Connect AWS and Azure networks via VPN with federated identity.

TOPICS COVERED

- Interconnecting clouds: VPN and interconnects
- IP planning and DNS across clouds
- Identity federation with Entra ID and SSO
- Workload identity federation
- Zero Trust access

aws AWS

MODULE 06

Security and Compliance Across Clouds

10 hours

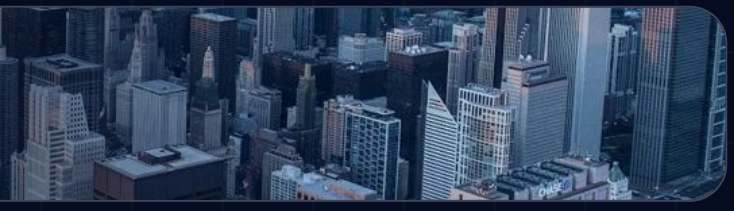
Hands-on lab
Design centralised logging and guardrails spanning three providers.

TOPICS COVERED

- Unified security posture management
- Centralised logging and SIEM
- Encryption and key management strategy
- Compliance mapping across providers
- Consistent guardrails

LEARN BY DOING

8 guided labs, one in every module.



✦ DETAILED CURRICULUM

Syllabus, continued.

Modules 07–08

MODULE 07

FinOps and Multi-Cloud Operations

8 hours

Hands-on lab
Build a cross-cloud cost and observability dashboard design.

TOPICS COVERED

- FinOps framework and practices
- Cost visibility and tagging standards
- Unified observability with OpenTelemetry
- Multi-cloud incident management
- SLOs across providers

MODULE 08

Migration and Operating Model

8 hours

Hands-on lab
Draft a phased multi-cloud migration roadmap with governance checkpoints.

TOPICS COVERED

- Migration and repatriation planning
- Data migration across clouds
- Resilience and failover strategies
- Skills and team operating models
- Roadmaps and governance boards



CAPSTONE

Enterprise Multi-Cloud Strategy and Blueprint

✦ YOUR STACK

Tools you'll build with.

Real platforms and frameworks — the same stack modern teams ship with, practised in cloud-hosted labs.

AWS
Cloud platform

Microsoft Azure
Cloud platform

Google Cloud
Cloud platform

Kubernetes
Container orchestration

Terraform
Infrastructure as code



FRAMEWORKS & STANDARDS

Zero Trust

✦ HANDS-ON WORK

Projects that prove you can do it.

01

Workload Placement Strategy

Assess an application portfolio and recommend the best-fit cloud for each workload with documented rationale and risks.

02

Portable Kubernetes Deployment

Deploy one application across EKS, AKS and GKE using shared Terraform modules and GitOps workflows.

03

Multi-Cloud Governance Framework

Define tagging, security guardrails, cost controls and compliance mappings applied consistently across AWS, Azure and Google Cloud.

CAPSTONE PROJECT

Enterprise Multi-Cloud Strategy and Blueprint

Deliver a complete multi-cloud strategy for a case enterprise: workload placement, portable reference architecture, networking and identity design, security and FinOps governance, operating model and migration roadmap, defended in a panel review.

Real-world scenario | Mentor review | Portfolio ready



CERTIFICATION

SAM-MCA

Awarded on successful completion of the program assessments.

- MCQ assessments
- Practical lab evaluation
- Project & capstone review
- Final presentation



✦ HOW YOU LEARN

The SAM Learning Framework™

PHASE 01

S

Scenario

Real-world attack and use-case scenarios open every module.

PHASE 02

A

Apply

Hands-on lab work, CTF challenges and live projects.

PHASE 03

M

Master

Assessment, peer review and certification prep.

PHASE 04

M

Mentor

Post-program career guidance and support.

DELIVERY MODELS

- Instructor-Led (ILT)
- Virtual Instructor-Led
- Self-Paced Online
- E-Learning Licensing
- Blended Learning
- Corporate Onsite
- Bootcamp Intensive
- Hackathon / CTF
- Mentorship

✦ LEARNING PATH · CLOUD COMPUTING

Where this program fits.

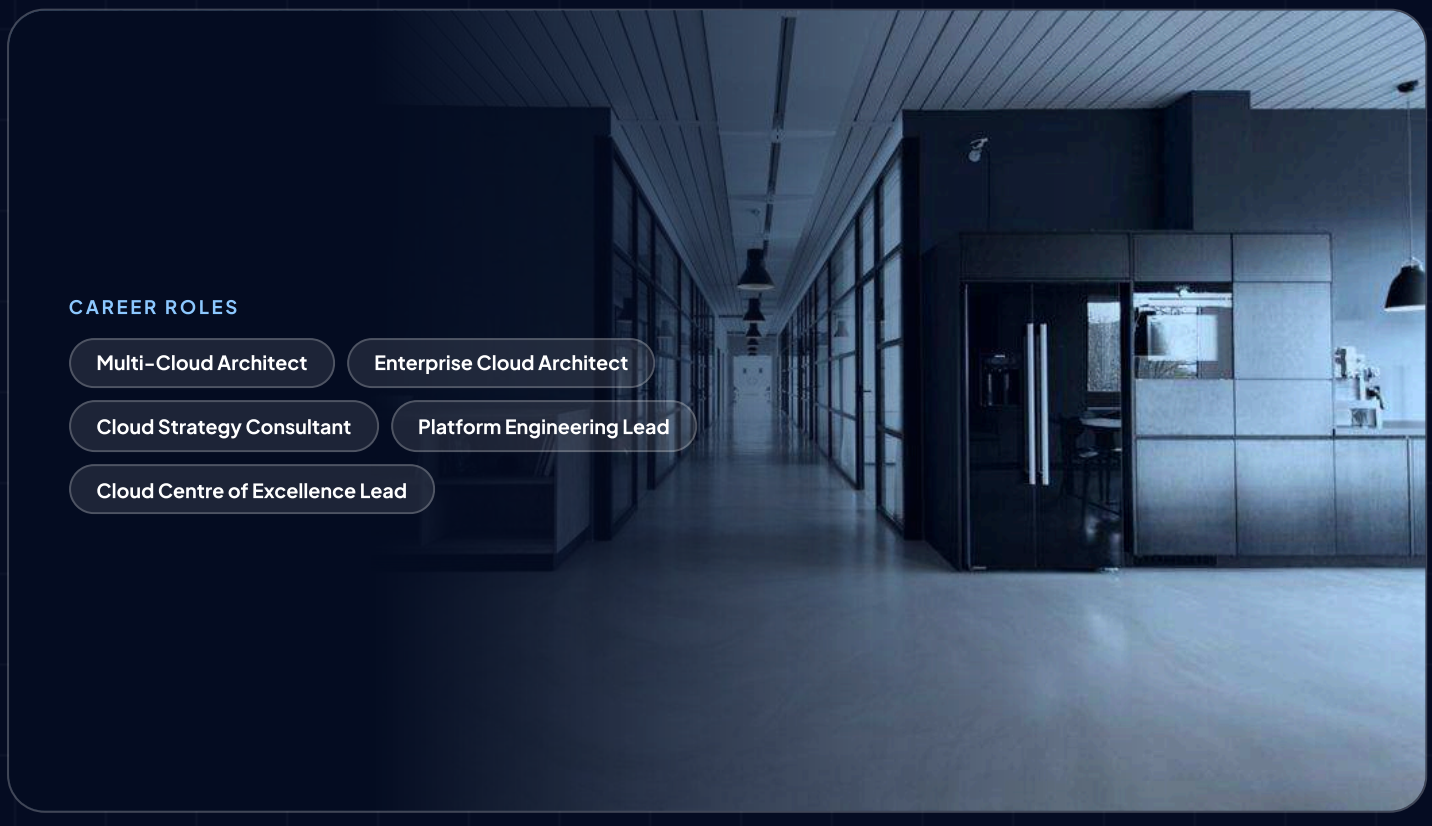
Beginner	Intermediate	Advanced	Expert
4 programs	6 programs	4 programs	You are here

BEFORE THIS

AWS Solutions Architect Professional (SAP-C02)	96 Hours
AWS DevOps Engineer Professional	96 Hours
Azure Solutions Architect (AZ-305)	96 Hours
GCP Professional Cloud Architect	96 Hours

UP NEXT

The top of this pathway — explore related tracks.



CAREER ROLES

- Multi-Cloud Architect
- Enterprise Cloud Architect
- Cloud Strategy Consultant
- Platform Engineering Lead
- Cloud Centre of Excellence Lead

✦ FAQS

Questions, answered.

Q01

Do I need prior experience?

Yes. This expert program assumes associate or professional experience on at least one cloud provider and working knowledge of Kubernetes and Terraform. Learners without this background should first complete a cloud architect program.

Q02

How are classes scheduled and delivered?

Sessions are instructor-led and run as live virtual or blended batches, with weekday and weekend options where available. Sessions combine strategy workshops, architecture case studies and multi-cloud labs, with notes for revision.

Q03

Will I receive a certificate?

Yes. Learners who complete the required labs, projects and final assessment receive the Samcommunity Academy SAM-MCA certificate. It recognises the practical skills you demonstrated during the program rather than attendance alone.

Q04

How do I access labs and tools?

Labs use AWS, Azure and Google Cloud free-tier or sandbox accounts. Instructors show how to set budgets and clean up resources to avoid unexpected charges, and step-by-step lab guides are shared for every module.

Q05

Is career support included?

You get guidance on portfolio projects, resume positioning and interview preparation for relevant roles. Strategy and architecture deliverables serve as senior-level portfolio evidence. We do not guarantee jobs, placements or salaries.



✦ LET'S TALK

Start Multi-Cloud Architecture & Strategy with Samcommunity.

INDIVIDUALS

academy@samcommunity.in

Batches, enrolment & career guidance

CORPORATE & INSTITUTIONS

corporate@samcommunity.in

Team batches & custom programs

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