

AWS**AZURE****GOOGLE CLOUD****AI**

MULTI-CLOUD & AI ARCHITECT PROGRAMME

Architect any cloud. Infuse it with AI.

A complete cloud architect programme across AWS and Microsoft Azure, with generative AI built into every level. 12 real projects, 5 of them AI builds, and an AI capstone.

AWS

Microsoft Azure

Amazon Bedrock

Azure OpenAI

AI Agents

Terraform

Kubernetes

Every AI breakthrough needs an architect behind it.

Businesses rarely use just one cloud. Many run on AWS **and** Azure, and every new AI product needs secure, scalable cloud platforms behind it. Cloud architects who understand **multiple clouds and AI** are some of the most in-demand people in tech.

UK CLOUD ENGINEER MEDIAN SALARY*

£70,000

Median advertised salary for permanent roles



Two clouds, one skill set

Learn AWS and Azure side by side, and understand how they compare.



AI on every level

Build AI apps on both clouds and design the platforms AI runs on.



Engineer to architect

A path from cloud engineer to solutions architect, AI platform engineer or DevOps lead.

Inside this guide

Programme at a glance	03	AI in every level	04
Your learning journey	05	Levels 1–6	06
AI capstone	12	Add-on tracks & exams	13
Project portfolio	14	Toolkit	16
Career launch support	17	Your certificate	18

*Median advertised salary, permanent UK Cloud Engineer roles, IT Jobs Watch, 6 months to Oct 2026. Individual salaries vary; entry-level roles typically start lower.

A complete cloud architect path. With AI built in.

6

learning levels

From cloud basics to multi-cloud architecture

12

real projects

UK business scenarios, 5 of them AI builds

2

major clouds

AWS and Microsoft Azure, plus a Google Cloud add-on

20

industry tools

EC2, Lambda, Azure, Terraform, Kubernetes, Bedrock and more

7

exams aligned

AWS and Microsoft certifications, from fundamentals to architect

Live

mentor-led

Expert mentors, recordings and 1:1 feedback

WHO IT'S FOR

Career changers

From any background, ready for a high-demand tech career

IT support & helpdesk staff

Ready to move up into cloud engineering and architecture

Developers & sysadmins

Wanting AWS, Azure, DevOps and AI on their CV

Graduates

Looking for a future-proof specialism

Complete beginners

Level 1 starts from zero, no experience needed



is infused into every level.

Most cloud architect courses stop at infrastructure. Ours teaches you to design and build the platforms AI runs on, on AWS and Azure, and to use AI tools to do your own job faster.

L1

Cloud Foundations

Discover where AI lives in the cloud: GPU compute, managed AI services, and why every AI product depends on a cloud platform.

L2

Build on AWS

Use Amazon Q Developer to explain AWS services, write CLI commands and troubleshoot faster, then get your first look at Amazon Bedrock.

L3

Run Microsoft Azure

Use Copilot in Azure to diagnose issues, explain errors and generate Azure CLI and PowerShell scripts, and learn to check what it gives you.

L4

AI Across the Clouds

This whole level is AI, on two clouds. You'll finish with working AI apps on both AWS and Azure in your portfolio.

L5

Architect Multi-Cloud Solutions

Design an AI-ready landing zone: private connections to AI models, secure data for RAG, and guardrails for cost, safety and compliance.

L6

Automate, Secure & Scale

Use GitHub Copilot to write Terraform and pipelines faster, and learn to deploy, monitor and scale AI apps in production.

5

AI projects in your portfolio

2

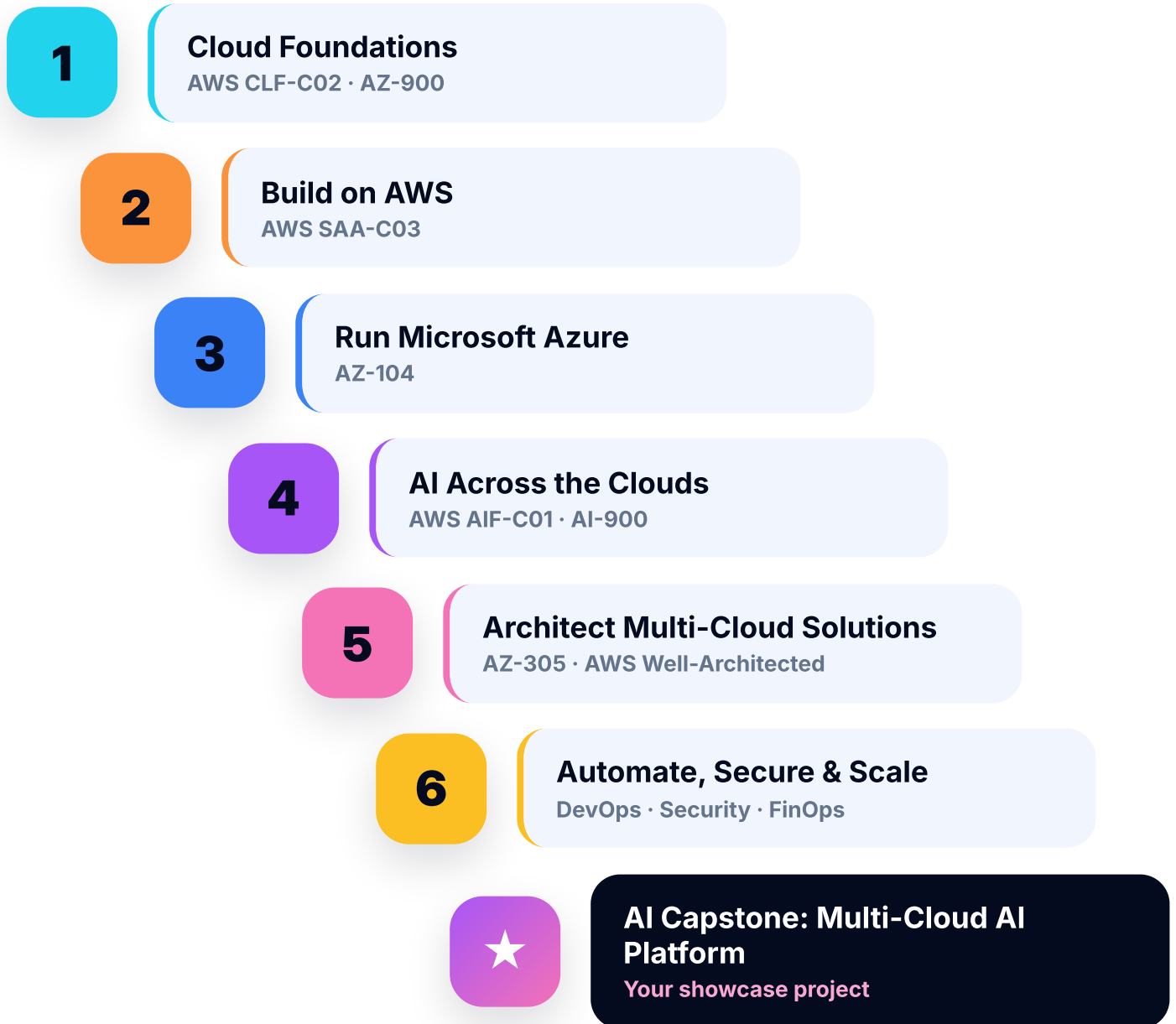
AI platforms: Bedrock + Azure OpenAI

1

AI capstone

Six levels. Two clouds. One architect.

Each level builds on the last: cloud basics, then AWS, then Azure, then AI on both. After that you'll design multi-cloud solutions and automate them like a professional cloud team.



- + **Optional add-ons:** Google Cloud Explorer · GenAI & AI Agents Engineering
- + **Throughout:** career coaching, CV, LinkedIn and interview prep

L1

LEVEL 1 · ALIGNED TO AWS CLF-C02 · AZ-900

Cloud Foundations

Start from zero. You'll learn how cloud computing works, how the two biggest cloud platforms (AWS and Microsoft Azure) are organised, and how businesses pay for, secure and govern what they run.

You'll learn to

- ◆ Explain cloud computing and IaaS, PaaS and SaaS in plain English
- ◆ Compare AWS and Azure: regions, availability zones, accounts and subscriptions
- ◆ Tour the core compute, storage, networking and database services on both clouds
- ◆ Understand the shared responsibility model, compliance and cloud security basics
- ◆ Estimate and control costs with pricing calculators, budgets and tags

AI INSIDE

Discover where AI lives in the cloud: GPU compute, managed AI services, and why every AI product depends on a cloud platform.

Sessions

01 Cloud in plain English

02 AWS vs Azure: the big picture

03 Core services tour

04 Security & shared responsibility

05 Paying for the cloud

06 AI in the cloud: the big picture

LEVEL PROJECT

Multi-Cloud Cost Compare

Price the same web platform on AWS and Azure and recommend the better fit for a UK start-up.

L2

LEVEL 2 • ALIGNED TO AWS SAA-C03

Build on AWS

Get hands-on with Amazon Web Services, the world's most widely used cloud. You'll design and build secure, resilient and scalable systems with the services AWS architects use every day.

You'll learn to

- ◆ Control access with IAM users, roles and policies
- ◆ Design custom VPCs with public and private subnets, routing and security groups
- ◆ Run and scale workloads with EC2, Auto Scaling and Elastic Load Balancing
- ◆ Store and protect data with S3, EBS, EFS, RDS and DynamoDB
- ◆ Build serverless apps with Lambda and API Gateway
- ◆ Deliver fast, global sites with Route 53 and CloudFront, and monitor with CloudWatch

AI INSIDE

Use Amazon Q Developer to explain AWS services, write CLI commands and troubleshoot faster, then get your first look at Amazon Bedrock.

Sessions

01 IAM & security

02 VPC networking

03 EC2, scaling & load balancing

04 Storage: S3, EBS & EFS

05 Databases: RDS & DynamoDB

06 Serverless with Lambda

07 DNS & CloudFront

08 Monitoring & resilience

LEVEL PROJECT

Secure VPC for a Fintech Start-up

Build a multi-tier AWS network with private databases, load balancing and tight security.

L3

LEVEL 3 • ALIGNED TO AZ-104

Run Microsoft Azure

Now master the cloud most UK enterprises run on. You'll manage Azure identities, networks, virtual machines, storage, apps and monitoring: the day-to-day work of a cloud engineer.

You'll learn to

- ◆ Manage users, groups and access with Microsoft Entra ID and RBAC
- ◆ Build virtual networks, peering, network security groups and load balancers
- ◆ Deploy virtual machines, scale sets, App Service apps and containers
- ◆ Configure storage accounts, file shares and secure access
- ◆ Protect and monitor workloads with Azure Backup and Azure Monitor

AI INSIDE

Use Copilot in Azure to diagnose issues, explain errors and generate Azure CLI and PowerShell scripts, and learn to check what it gives you.

Sessions

01 Identity & governance

02 Virtual networking

03 Compute: VMs & scale sets

04 Storage at scale

05 App Service & containers

06 Backup & monitoring

07 AI-assisted admin with Copilot

LEVEL PROJECT

Hybrid Office Network

Connect a UK firm's offices to Azure with secure networking, identity and monitoring.

L4

LEVEL 4 · ALIGNED TO AWS AIF-C01 · AI-900

AI Across the Clouds

This is the level that makes you stand out. You'll learn how AI and generative AI work, then build real AI applications on both AWS and Azure, the skills employers are struggling to find.

You'll learn to

- ◆ Understand machine learning, deep learning and generative AI in plain English
- ◆ Build generative AI apps with Amazon Bedrock and Azure OpenAI
- ◆ Write effective prompts and compare foundation models
- ◆ Create "chat with your data" assistants using RAG and vector search
- ◆ Build AI agents that use tools and take actions
- ◆ Add vision, speech and document AI with ready-made services
- ◆ Apply responsible AI: guardrails, privacy, bias and human oversight

AI INSIDE

This whole level is AI, on two clouds. You'll finish with working AI apps on both AWS and Azure in your portfolio.

Sessions

01 How AI really works

02 Generative AI & foundation models

03 Amazon Bedrock

04 Azure OpenAI & AI Foundry

05 Prompt engineering

06 RAG & vector databases

07 AI agents

08 Responsible AI & guardrails

LEVEL PROJECT

GenAI Knowledge Assistant

Build an assistant on Amazon Bedrock that answers staff questions from company policy documents.

L5 Architect Multi-Cloud Solutions

Step up from engineer to architect. You'll turn business requirements into secure, resilient, cost-effective designs across AWS and Azure, including platforms built for AI.

You'll learn to

- ◆ Apply the AWS and Azure Well-Architected frameworks
- ◆ Design identity, governance and monitoring for whole organisations
- ◆ Choose the right data platform for each workload
- ◆ Plan high availability, backup and disaster recovery across regions
- ◆ Plan migrations with AWS DMS and Azure Migrate, and design hybrid and multi-cloud networking
- ◆ Architect AI platforms: GPU capacity, private model access, data pipelines and cost control

AI INSIDE

Design an AI-ready landing zone: private connections to AI models, secure data for RAG, and guardrails for cost, safety and compliance.

Sessions

01 Thinking like an architect

02 Well-Architected reviews

03 Identity & governance design

04 Data platform design

05 Resilience & disaster recovery

06 Migration planning

07 Hybrid & multi-cloud networks

08 Architecting AI platforms

LEVEL PROJECT

Resilient Online Pharmacy

Design an online pharmacy that stays up even if a whole cloud region fails.

L6

LEVEL 6 · ALIGNED TO DEVOPS · SECURITY · FINOPS

Automate, Secure & Scale

Professional cloud teams automate everything. You'll write infrastructure as code that works across clouds, build pipelines, run Kubernetes and keep it all secure and on budget.

You'll learn to

- ◆ Write multi-cloud infrastructure as code with Terraform
- ◆ Build CI/CD pipelines with GitHub Actions
- ◆ Run containers on Amazon EKS and Azure Kubernetes Service
- ◆ Secure secrets and workloads with AWS KMS, Key Vault and cloud security tools
- ◆ Monitor everything with CloudWatch, Azure Monitor and dashboards
- ◆ Control spend with FinOps for cloud and AI workloads

AI INSIDE

Use GitHub Copilot to write Terraform and pipelines faster, and learn to deploy, monitor and scale AI apps in production.

Sessions

01 Terraform for AWS & Azure

02 CI/CD with GitHub Actions

03 Docker & containers

04 Kubernetes: EKS & AKS

05 Cloud security in practice

06 Observability

07 FinOps for cloud & AI

LEVEL PROJECT

Kubernetes Food Delivery Platform

Deploy and scale a containerised delivery app on Kubernetes with a fully automated pipeline.

Mission: Multi-Cloud AI Platform

A fictional UK company runs on AWS and Azure and wants to launch AI, safely, at scale and on budget. You're the architect. You'll design the platform, build it with code, plug in generative AI and present your solution, just as you would on the job.

1

Discover

Understand the business, its data and its AI goals

2

Design

Draw a multi-cloud AI architecture and justify every choice

3

Build

Deploy it with Terraform and connect Bedrock or Azure OpenAI

4

Secure

Add identity, private networking, AI guardrails and budgets

5

Present

Pitch your design to a mentor panel like a real architect

Choose your scenario

RETAIL

AI product advisor for a fashion e-commerce brand

FINANCE

Secure AI assistant for an insurance claims team

HEALTH

AI appointment and FAQ assistant for a clinic group

TRAVEL

AI trip-planning agent for a UK holiday company

You'll leave with a multi-cloud architecture diagram, Terraform code and a working AI demo: three things to show in every interview.

OPTIONAL ADD-ON TRACKS

Go further, **your way.**

ADD-ON A · GENAI & AI AGENTS ENGINEERING

Go deeper into building production AI systems on the cloud.

- ◆ Design multi-step AI agents that use tools and APIs
- ◆ Build advanced RAG with vector databases and evaluation
- ◆ Fine-tune and compare foundation models
- ◆ Monitor AI quality, cost and safety in production

ADD-ON B · GOOGLE CLOUD EXPLORER

Get hands-on with Google Cloud's core services and Vertex AI, so you can work confidently across all three major clouds.

EXAM ALIGNMENT

CLF-C02

AWS Cloud Practitioner

Level 1

AZ-900

Azure Fundamentals

Level 1

SAA-C03

AWS Solutions
Architect – Associate

Level 2

AZ-104

Azure Administrator
Associate

Level 3

AIF-C01

AWS AI Practitioner

Level 4

AI-900

Azure AI Fundamentals

Level 4

AZ-305

Azure Solutions
Architect Expert*

Level 5

Certification exams are run by AWS and Microsoft and booked separately; exam fees may apply. *Microsoft requires AZ-104 before the Solutions Architect Expert certification is awarded.

12 projects. 5 of them AI.

Every project is set in a realistic UK business scenario. Projects marked ✦ are AI builds.

01

Multi-Cloud Cost Compare

Foundations

Price one web platform on AWS and Azure and recommend the best fit for a start-up.

02

Secure VPC for a Fintech Start-up

AWS

Build a multi-tier network with private databases, load balancing and tight security.

03

Serverless Order Tracker

AWS serverless

Track online orders with Lambda, API Gateway and DynamoDB, with no servers to manage.

04

Global Streaming Site

AWS

Serve a video site worldwide at speed using S3, CloudFront and Route 53.

05

Hybrid Office Network

Azure

Connect a firm's offices to Azure with secure networking, identity and monitoring.

06

GenAI Knowledge Assistant

✦ Amazon Bedrock

Answer staff questions from company policy documents using RAG on AWS.

Projects, continued

07

AI Support Copilot

✦ Azure OpenAI

Build a customer-support chatbot grounded in a company's help-centre articles.

08

AI Receipt & Invoice Reader

✦ Document AI

Extract data from receipts and invoices automatically with cloud AI services.

09

Cloud Database Migration

Migration

Move an on-premises database to the cloud with minimal downtime.

10

Resilient Online Pharmacy

Architecture

Design a platform that survives the loss of a whole cloud region.

11

Kubernetes Food Delivery Platform

Containers

Run and scale a delivery app on EKS or AKS with a CI/CD pipeline.

12

AI Agent with Guardrails

✦ AI agents

Build an operations agent that takes actions safely, with content filters and cost alerts.

+ AI CAPSTONE

Mission: Multi-Cloud AI Platform

Design, build and present a multi-cloud AI platform for a real-world scenario.

20 tools. AWS + Azure + AI.

You'll use every tool hands-on in labs and projects, so you can put it on your CV with confidence.

 **AWS Console**

 **AWS CLI**

 **Amazon EC2**

 **Amazon S3**

 **AWS Lambda**

 **Amazon VPC**

 **Azure Portal**

 **Azure CLI**

 **Microsoft Entra ID**

 **Azure Monitor**

 **Terraform**

 **GitHub Actions**

 **Docker**

 **Kubernetes (EKS/AKS)**

 **Amazon Bedrock**

 **Amazon SageMaker**

 **Azure OpenAI**

 **Azure AI Search**

 **Amazon Q Developer**

 **GitHub Copilot**

AWS

EC2 · S3 · Lambda · VPC · CLI

AZURE & DEVOPS

Azure · Entra ID · Terraform · Kubernetes

AI

Bedrock · SageMaker · Azure OpenAI · Copilot

Skills get you ready. We help you get noticed.

CV rewrite

1

A cloud-focused, ATS-friendly CV built around your projects.

LinkedIn makeover

2

A profile recruiters can find, with your projects and skills featured.

GitHub portfolio

3

Your Terraform code and AI apps published professionally.

Mock interviews

4

Technical and architecture scenario practice with mentors.

Job-search strategy

5

Where to apply, how to stand out and how to follow up.

Ongoing guidance

6

Support from your career coach while you apply and interview.

Roles you'll be ready to apply for

Cloud Engineer

AWS Cloud Engineer

Azure Administrator

Junior Solutions Architect

Cloud Support Engineer

AI Platform Engineer (junior)

DevOps Engineer (junior)

Cloud Security Analyst

Ask about our job or money-back guarantee

Eligible learners who complete the programme and meet the participation requirements may qualify. Terms and conditions apply; ask your advisor for full details.

Proof you can architect **cloud and AI.**



CERTIFICATE OF COMPLETION

Multi-Cloud & AI Architect Programme

This certifies that

[Learner Name]

has completed all six levels, twelve projects and the Multi-Cloud AI Platform capstone.

Date: __ / __ ____

Programme Director, Career Galaxee

Sample certificate for illustration

When you complete the programme you'll receive a **Career Galaxee Certificate of Completion** for your CV and LinkedIn profile. The levels are aligned to seven AWS and Microsoft certification exams, so you'll also be prepared to earn industry-recognised credentials, booked directly with AWS and Microsoft.



Your cloud architect career starts with one call.

Talk to an advisor about your goals and experience, and we'll find the best starting level for you. It's free, and there's no obligation.

Book your FREE career call →

www.careergalaxee.com

AI