Admissions & Support: support@mockattempt.com
Phone / WhatsApp: +91 98765 43210
Course Code: AWSM • **Updated:** 01 Nov 2026
https://mockattempt.com/training/aws-certified-solutions-architect-program

AWSM • CLOUD & DEVOPS ENGINEERING **JOB-GUARANTEED CAREER MASTER PROGRAM**

100% PLACEMENT GUARANTEED* CAREER PROGRAM (6-MO REFUND*)

AWS Certified Solutions Architect & Cloud Engineering Master Program

100% Placement Guaranteed | Production Cloud Engineering, AWS Solutions Architecture, Terraform IaC, Kubernetes, DevOps & SAA-C03 Certification | 100% Placement Guaranteed* (6 Months Fees Refund*)

Duration: 28w (420h) • 15h/wk (448 Hrs) • **Modules:** 16 • **Live Topics:** 42 • **Labs & Tasks:** 84 • **Mocks / AI Vivas:** 84 / 84 • **Projects:** 16 Module + 1 Live Client Prod

Fixed Non-Negotiable Tuition Fee: Base Fee **₹44,999** + 18% GST (₹8,100) = **Total Incl. GST: ₹53,099**

Live Batch Tracks: Weekday Career Intensive Batch (Mon – Fri • 15h/wk) (Monday to Friday (5 Live Sessions / Week • 15h/wk Total) • 3.0 Hours / Day (90 Mins Live Architecture + 90 Mins Supervised Real-Repo Coding) • 30 Weeks (448 Hours • 15h/wk)) | Weekend Working-Pro Career Batch (Sat – Sun + Guided Sprint • 15h/wk) (Saturday & Sunday Live + Mid-Week Mentor PR Review (15h/wk Total) • 5.0 Hours Sat & Sun Live + 5.0 Hours Guided Real-Repository Sprint • 30 Weeks (448 Hours • 15h/wk))

✓ 6-Month Placement Guarantee*: Complete 100% assigned repositories & score ≥90% across all Topic Mock Tests & Voice AI Interviews → 100+ verified IT job openings within 6 months or 100% net tuition refund*.

Core Technologies & Engineering Stack: AWS Solutions Architecture • Enterprise Multi-AZ VPC • IAM Security & Governance • EC2 Auto Scaling & ALB • Amazon S3, Lifecycle & Glacier • CloudFront CDN & Route 53 DNS • RDS Multi-AZ, Aurora & DynamoDB • AWS Lambda, API Gateway & Serverless • SQS, SNS & EventBridge Decoupling • Terraform Infrastructure as Code • Docker & Amazon ECS Fargate • Amazon EKS (Kubernetes) • AWS KMS, Secrets Manager & WAF • Transit Gateway & Hybrid VPN • CloudWatch, CloudTrail & Config • GitHub Actions OIDC CI/CD • Disaster Recovery (Pilot Light / Active-Active) • AWS Well-Architected Framework • FinOps Cost Optimization • AWS SAA-C03 Exam Mastery

1. PROGRAM MASTERY OUTCOMES & ELIGIBILITY

End-to-End Engineering Outcomes:

1. Build and ship 14 real-world production GitHub repositories + 1 Live Client Production Cloud Deployment (zero dummy to-do apps)
2. Achieve ≥90% mastery across every Topic Mock Test and Spoken Gemini AI Technical Interview (unlimited free re-attempts allowed below 90%)
3. Earn Dual Barcode-Verifiable Credentials: Course Excellence Certificate + Official Project Internship Confirmation Letter
4. Unlock 6-Month Placement Support guaranteeing 100 curated relevant IT job openings — backed by our 100% Tuition Fee Refund* policy
5. Enterprise AWS Solutions Architecture: Multi-AZ VPC transit networking, IAM/KMS zero-trust governance, ALB/ASG, and Route 53.
6. Serverless & managed data scale: ECS/EKS containers, Lambda/API Gateway/EventBridge, RDS Aurora Multi-AZ, DynamoDB, and S3/CloudFront.
7. 100% Infrastructure as Code using modular Terraform, remote state locking, policy-as-code checks, and multi-account governance.
8. Production Kubernetes (EKS), Docker, GitHub Actions GitSecOps pipelines, CloudWatch/Prometheus observability, and FinOps.

Eligibility & Prerequisites: Basic computer literacy and commitment to 15 hours/week of live coding, daily tasks & real-repository sprints • Dedication to complete 100% of assigned tasks and re-attempt assessments until crossing ≥90% mastery • No prior AWS Certified Solutions Architect & Cloud Engineering Master Program industry experience required — Module 1 starts from environment setup, core mental models, and plain-English fundamentals. • Basic computer & internet familiarity on a Windows, macOS, or Linux laptop (8 GB+ RAM recommended for smooth live coding labs). • Ideal for B.Tech / BCA / MCA / B.Sc IT students, non-CS beginners, career switchers, and working developers upgrading to 2026 production standards. • Commitment to attend live Weekday or Weekend classes, complete daily hands-on lab checklists, and practice topic-wise Mock Tests & AI Interviews.

2. DETAILED MODULE & TOPIC-WISE SYLLABUS (16 MODULES • 42 LIVE TOPICS)

MODULE 1 OF 16 • 30 LIVE + LAB HOURS • 3 TOPICS • 1 CAPSTONE PROJECT (100 MARKS)

Cloud Computing Internals, Linux Systems & Networking Foundations

Real-repository engineering module covering Cloud Computing Internals, Linux Systems & Networking Foundations with supervised live coding, ≥90% AI Mock Gates, and production GitHub PR verification.

Objectives: ✓ AWS Global Infrastructure (Regions, AZs, Local Zones, Edge) & Shared Responsibility — Purpose: Design cloud workloads with clear security ownership, compliance, and blast-radius isolation. • ✓ Linux Server Administration, Systemd, SSH Bastions, Processes & Filesystems — Purpose: Operate and

troubleshoot Linux cloud instances fluently from the command line. • ✓ OSI/TCP-IP, CIDR Subnet Math, Routing, DNS Resolution & TLS Handshakes — Purpose: Design conflict-free enterprise IP plans and diagnose packet-drop or TLS issues fast.

1.1 AWS Global Infrastructure (Regions, AZs, Local Zones, Edge) & Shared Responsibility [90 mins • Assignment (100M) • Hands-On Lab (50M) • 2 Mock Sets • 2 AI Vivas]

Purpose: To understand and apply AWS Global Infrastructure (Regions, AZs, Local Zones, Edge) & Shared Responsibility in real AWS Certified Solutions Architect & Cloud Engineering...

1.2 Linux Server Administration, Systemd, SSH Bastions, Processes & Filesystems [90 mins • Assignment (100M) • Hands-On Lab (50M) • 2 Mock Sets • 2 AI Vivas]

Purpose: To understand and apply Linux Server Administration, Systemd, SSH Bastions, Processes & Filesystems in real AWS Certified Solutions Architect & Cloud Engineering Master P...

1.3 OSI/TCP-IP, CIDR Subnet Math, Routing, DNS Resolution & TLS Handshakes [90 mins • Assignment (100M) • Hands-On Lab (50M) • 2 Mock Sets • 2 AI Vivas]

Purpose: To understand and apply OSI/TCP-IP, CIDR Subnet Math, Routing, DNS Resolution & TLS Handshakes in real AWS Certified Solutions Architect & Cloud Engineering Master Progra...

Module 1 Hands-On Capstone Project (100 Marks): Linux Hardening, CIDR Subnetting & DNS/TLS Diagnostics Repo — Architect, implement, test, and push the production GitHub repository 'Linux Hardening, CIDR Subnetting & DNS/TLS Diagnostics Repo' (strictly zero dummy scaffolding) demonstrating end-to-end...

MODULE 2 OF 16 • 30 LIVE + LAB HOURS • 3 TOPICS • 1 CAPSTONE PROJECT (100 MARKS)

AWS IAM Security, Organizations & Zero-Trust Cloud Governance

Real-repository engineering module covering AWS IAM Security, Organizations & Zero-Trust Cloud Governance with supervised live coding, ≥90% AI Mock Gates, and production GitHub PR verification.

Objectives: ✓ IAM Policies (JSON), Roles, STS AssumeRole, Permission Boundaries & MFA — Purpose: Eliminate static access keys using temporary STS credentials and least-privilege policies. • ✓ AWS Organizations, OUs, Service Control Policies (SCPs) & IAM Identity Center — Purpose: Govern dev, staging, security, and prod AWS accounts centrally at enterprise scale. • ✓ AWS KMS Envelope Encryption, Secrets Manager Rotation, CloudTrail & AWS Config — Purpose: Enforce cryptographic data protection, automatic secret rotation, and compliance audits.

2.1 IAM Policies (JSON), Roles, STS AssumeRole, Permission Boundaries & MFA [90 mins • Assignment (100M) • Hands-On Lab (50M) • 2 Mock Sets • 2 AI Vivas]

Purpose: To understand and apply IAM Policies (JSON), Roles, STS AssumeRole, Permission Boundaries & MFA in real AWS Certified Solutions Architect & Cloud Engineering Master Progr...

2.2 AWS Organizations, OUs, Service Control Policies (SCPs) & IAM Identity Center [90 mins • Assignment (100M) • Hands-On Lab (50M) • 2 Mock Sets • 2 AI Vivas]

Purpose: To understand and apply AWS Organizations, OUs, Service Control Policies (SCPs) & IAM Identity Center in real AWS Certified Solutions Architect & Cloud Engineering Master...

2.3 AWS KMS Envelope Encryption, Secrets Manager Rotation, CloudTrail & AWS Config [90 mins • Assignment (100M) • Hands-On Lab (50M) • 2 Mock Sets • 2 AI Vivas]

Purpose: To understand and apply AWS KMS Envelope Encryption, Secrets Manager Rotation, CloudTrail & AWS Config in real AWS Certified Solutions Architect & Cloud Engineering Maste...

Module 2 Hands-On Capstone Project (100 Marks): Multi-Account AWS Organizations, SCPs & IAM OIDC Policy Repo — Architect, implement, test, and push the production GitHub repository 'Multi-Account AWS Organizations, SCPs & IAM OIDC Policy Repo' (strictly zero dummy scaffolding) demonstrating end-to-en...

MODULE 3 OF 16 • 30 LIVE + LAB HOURS • 3 TOPICS • 1 CAPSTONE PROJECT (100 MARKS)

Enterprise Multi-AZ VPC Networking & Hybrid Connectivity

Real-repository engineering module covering Enterprise Multi-AZ VPC Networking & Hybrid Connectivity with supervised live coding, ≥90% AI Mock Gates, and production GitHub PR verification.

Objectives: ✓ Public/Private/Isolated Subnets, Route Tables, IGW, NAT Gateways & NACLs/SGs — Purpose: Isolate database and application tiers completely from direct public internet exposure. • ✓ VPC Peering, AWS Transit Gateway Hub-and-Spoke & VPC Flow Logs — Purpose: Interconnect dozens of microservice VPCs cleanly with centralized network visibility. • ✓ AWS PrivateLink Interface/Gateway Endpoints, Site-to-Site VPN & Direct Connect — Purpose: Keep S3/DynamoDB/internal traffic on the private AWS backbone off the public internet.

3.1 Public/Private/Isolated Subnets, Route Tables, IGW, NAT Gateways & NACLs/SGs [90 mins • Assignment (100M) • Hands-On Lab (50M) • 2 Mock Sets • 2 AI Vivas]

Purpose: To understand and apply Public/Private/Isolated Subnets, Route Tables, IGW, NAT Gateways & NACLs/SGs in real AWS Certified Solutions Architect & Cloud Engineering Master...

3.2 VPC Peering, AWS Transit Gateway Hub-and-Spoke & VPC Flow Logs [90 mins • Assignment (100M) • Hands-On Lab (50M) • 2 Mock Sets • 2 AI Vivas]

Purpose: To understand and apply VPC Peering, AWS Transit Gateway Hub-and-Spoke & VPC Flow Logs in real AWS Certified Solutions Architect & Cloud Engineering Master Program system...

3.3 AWS PrivateLink Interface/Gateway Endpoints, Site-to-Site VPN & Direct Connect [90 mins • Assignment (100M) • Hands-On Lab (50M) • 2 Mock Sets • 2 AI Vivas]

Purpose: To understand and apply AWS PrivateLink Interface/Gateway Endpoints, Site-to-Site VPN & Direct Connect in real AWS Certified Solutions Architect & Cloud Engineering Maste...

Module 3 Hands-On Capstone Project (100 Marks): Production 3-Tier Multi-AZ VPC, NAT & VPC Endpoints Lab Repo — Architect, implement, test, and push the production GitHub repository 'Production 3-Tier Multi-AZ VPC, NAT & VPC Endpoints Lab Repo' (strictly zero dummy scaffolding) demonstrating end-to-en...

MODULE 4 OF 16 • 30 LIVE + LAB HOURS • 3 TOPICS • 1 CAPSTONE PROJECT (100 MARKS)

Elastic Compute (EC2), Auto Scaling & Elastic Load Balancing

Real-repository engineering module covering Elastic Compute (EC2), Auto Scaling & Elastic Load Balancing with supervised live coding, ≥90% AI Mock Gates, and production GitHub PR verification.

Objectives: ✓ EC2 Instance Families, Nitro Hypervisor, EBS Volume Types (gp3/io2) & Snapshots — Purpose: Right-size compute and block storage IOPS/throughput for cost and performance SLAs. • ✓ Application, Network & Gateway Load Balancers (ALB/NLB), TLS & Target Groups — Purpose: Terminate HTTPS cleanly, route path/host microservices, and drain unhealthy instances. • ✓ Launch Templates, Dynamic/Predictive Auto Scaling Policies & Spot Fleet Mix — Purpose: Scale capacity automatically on demand while slashing compute spend by up to 70%.

4.1 EC2 Instance Families, Nitro Hypervisor, EBS Volume Types (gp3/io2) & Snapshots [90 mins • Assignment (100M) • Hands-On Lab (50M) • 2 Mock Sets • 2 AI Vivas]

Purpose: To understand and apply EC2 Instance Families, Nitro Hypervisor, EBS Volume Types (gp3/io2) & Snapshots in real AWS Certified Solutions Architect & Cloud Engineering Mast...

4.2 Application, Network & Gateway Load Balancers (ALB/NLB), TLS & Target Groups [90 mins • Assignment (100M) • Hands-On Lab (50M) • 2 Mock Sets • 2 AI Vivas]

Purpose: To understand and apply Application, Network & Gateway Load Balancers (ALB/NLB), TLS & Target Groups in real AWS Certified Solutions Architect & Cloud Engineering Master...

4.3 Launch Templates, Dynamic/Predictive Auto Scaling Policies & Spot Fleet Mix [90 mins • Assignment (100M) • Hands-On Lab (50M) • 2 Mock Sets • 2 AI Vivas]

Purpose: To understand and apply Launch Templates, Dynamic/Predictive Auto Scaling Policies & Spot Fleet Mix in real AWS Certified Solutions Architect & Cloud Engineering Master P...

Module 4 Hands-On Capstone Project (100 Marks): Zero-Downtime ALB + EC2 Auto Scaling Golden AMI Fleet Repo — Architect, implement, test, and push the production GitHub repository 'Zero-Downtime ALB + EC2 Auto Scaling Golden AMI Fleet Repo' (strictly zero dummy scaffolding) demonstrating end-to-end...

MODULE 5 OF 16 • 30 LIVE + LAB HOURS • 3 TOPICS • 1 CAPSTONE PROJECT (100 MARKS)

Amazon S3 Object Storage, Hybrid Storage & Global Edge Delivery

Real-repository engineering module covering Amazon S3 Object Storage, Hybrid Storage & Global Edge Delivery with supervised live coding, ≥90% AI Mock Gates, and production GitHub PR verification.

Objectives: ✓ S3 Storage Classes, Versioning, Object Lock, Lifecycle Rules & Bucket Policies — Purpose: Protect petabytes of data with 11 nines durability and automated Glacier tiering. • ✓ S3 Presigned URLs, Cross-Region Replication, EFS Shared NFS & FSx Workloads — Purpose: Support secure browser uploads and shared multi-AZ POSIX filesystems seamlessly. • ✓ CloudFront CDN Origin Access Control (OAC), AWS WAF/Shield & Route 53 Routing — Purpose: Accelerate global latency to <30ms with DDoS protection and automated DNS failover.

5.1 S3 Storage Classes, Versioning, Object Lock, Lifecycle Rules & Bucket Policies [90 mins • Assignment (100M) • Hands-On Lab (50M) • 2 Mock Sets • 2 AI Vivas]

Purpose: To understand and apply S3 Storage Classes, Versioning, Object Lock, Lifecycle Rules & Bucket Policies in real AWS Certified Solutions Architect & Cloud Engineering Maste...

5.2 S3 Presigned URLs, Cross-Region Replication, EFS Shared NFS & FSx Workloads [90 mins • Assignment (100M) • Hands-On Lab (50M) • 2 Mock Sets • 2 AI Vivas]

Purpose: To understand and apply S3 Presigned URLs, Cross-Region Replication, EFS Shared NFS & FSx Workloads in real AWS Certified Solutions Architect & Cloud Engineering Master P...

5.3 CloudFront CDN Origin Access Control (OAC), AWS WAF/Shield & Route 53 Routing [90 mins • Assignment (100M) • Hands-On Lab (50M) • 2 Mock Sets • 2 AI Vivas]

Purpose: To understand and apply CloudFront CDN Origin Access Control (OAC), AWS WAF/Shield & Route 53 Routing in real AWS Certified Solutions Architect & Cloud Engineering Master...

Module 5 Hands-On Capstone Project (100 Marks): S3 Replication, CloudFront OAC, WAF & Route 53 Failover Repo — Architect, implement, test, and push the production GitHub repository 'S3 Replication, CloudFront OAC, WAF & Route 53 Failover Repo' (strictly zero dummy scaffolding) demonstrating end-to-en...

MODULE 6 OF 16 • 30 LIVE + LAB HOURS • 3 TOPICS • 1 CAPSTONE PROJECT (100 MARKS)

Managed Relational, NoSQL & In-Memory Cloud Databases

Real-repository engineering module covering Managed Relational, NoSQL & In-Memory Cloud Databases with supervised live coding, ≥90% AI Mock Gates, and production GitHub PR verification.

Objectives: ✓ Amazon RDS Multi-AZ Failover, Read Replicas, Parameter Groups & PITR Backups — Purpose: Guarantee high-availability SQL operations with automated synchronous standby failover. • ✓ Amazon Aurora Serverless v2, Global Database & RDS Proxy Connection Pooling — Purpose: Scale relational workloads globally and prevent Lambda/microservice connection storms. • ✓ DynamoDB Partition Keys, GSIs, DAX, Streams & ElastiCache (Redis) Acceleration — Purpose: Model single-digit millisecond NoSQL tables and microsecond in-memory caches.

6.1 Amazon RDS Multi-AZ Failover, Read Replicas, Parameter Groups & PITR Backups [90 mins • Assignment (100M) • Hands-On Lab (50M) • 2 Mock Sets • 2 AI Vivas]

Purpose: To understand and apply Amazon RDS Multi-AZ Failover, Read Replicas, Parameter Groups & PITR Backups in real AWS Certified Solutions Architect & Cloud Engineering Master...

6.2 Amazon Aurora Serverless v2, Global Database & RDS Proxy Connection Pooling [90 mins • Assignment (100M) • Hands-On Lab (50M) • 2 Mock Sets • 2 AI Vivas]

Purpose: To understand and apply Amazon Aurora Serverless v2, Global Database & RDS Proxy Connection Pooling in real AWS Certified Solutions Architect & Cloud Engineering Master P...

6.3 DynamoDB Partition Keys, GSIs, DAX, Streams & ElastiCache (Redis) Acceleration [90 mins • Assignment (100M) • Hands-On Lab (50M) • 2 Mock Sets • 2 AI Vivas]

Purpose: To understand and apply DynamoDB Partition Keys, GSIs, DAX, Streams & ElastiCache (Redis) Acceleration in real AWS Certified Solutions Architect & Cloud Engineering Maste...

Module 6 Hands-On Capstone Project (100 Marks): Aurora Multi-AZ Read-Replica, RDS Proxy & DynamoDB Single-Table Repo — Architect, implement, test, and push the production GitHub repository 'Aurora Multi-AZ Read-Replica, RDS Proxy & DynamoDB Single-Table Repo' (strictly zero dummy scaffolding) demonstrating e...

MODULE 7 OF 16 • 30 LIVE + LAB HOURS • 3 TOPICS • 1 CAPSTONE PROJECT (100 MARKS)

Serverless Architecture & Event-Driven Cloud Decoupling

Real-repository engineering module covering Serverless Architecture & Event-Driven Cloud Decoupling with supervised live coding, ≥90% AI Mock Gates, and production GitHub PR verification.

Objectives: ✓ AWS Lambda Execution Lifecycle, Layers, Concurrency, Cold-Start Tuning & SnapStart — Purpose: Run event-driven compute at massive scale paying zero for idle server time. • ✓ Amazon API Gateway (REST/HTTP/WebSocket), Cognito Auth & Step Functions Sagas — Purpose: Expose throttled, authenticated serverless APIs and visual state-machine workflows. • ✓ Amazon SQS, FIFO Queues, DLQs, SNS Fanout, EventBridge & Kinesis Streams — Purpose: Decouple microservices asynchronously so traffic spikes never drop customer orders.

7.1 AWS Lambda Execution Lifecycle, Layers, Concurrency, Cold-Start Tuning & SnapStart [90 mins • Assignment (100M) • Hands-On Lab (50M) • 2 Mock Sets • 2 AI Vivas]

Purpose: To understand and apply AWS Lambda Execution Lifecycle, Layers, Concurrency, Cold-Start Tuning & SnapStart in real AWS Certified Solutions Architect & Cloud Engineering M...

7.2 Amazon API Gateway (REST/HTTP/WebSocket), Cognito Auth & Step Functions Sagas [90 mins • Assignment (100M) • Hands-On Lab (50M) • 2 Mock Sets • 2 AI Vivas]

Purpose: To understand and apply Amazon API Gateway (REST/HTTP/WebSocket), Cognito Auth & Step Functions Sagas in real AWS Certified Solutions Architect & Cloud Engineering Master...

7.3 Amazon SQS, FIFO Queues, DLQs, SNS Fanout, EventBridge & Kinesis Streams [90 mins • Assignment (100M) • Hands-On Lab (50M) • 2 Mock Sets • 2 AI Vivas]

Purpose: To understand and apply Amazon SQS, FIFO Queues, DLQs, SNS Fanout, EventBridge & Kinesis Streams in real AWS Certified Solutions Architect & Cloud Engineering Master Prog...

Module 7 Hands-On Capstone Project (100 Marks): Serverless API Gateway + Lambda + SQS/SNS/EventBridge Order Repo — Architect, implement, test, and push the production GitHub repository 'Serverless API Gateway + Lambda + SQS/SNS/EventBridge Order Repo' (strictly zero dummy scaffolding) demonstrating end-t...

MODULE 8 OF 16 • 30 LIVE + LAB HOURS • 3 TOPICS • 1 CAPSTONE PROJECT (100 MARKS)

Terraform Infrastructure as Code (IaC) & CloudFormation

Real-repository engineering module covering Terraform Infrastructure as Code (IaC) & CloudFormation with supervised live coding, ≥90% AI Mock Gates, and production GitHub PR verification.

Objectives: ✓ Terraform Providers, HCL Modules, Variables, Outputs & Dependency Graphs — Purpose: Replace fragile console clicking with peer-reviewed, repeatable Infrastructure as Code. • ✓ Remote S3 + Locking State Backends, Workspaces, Drift Detection & Imports — Purpose: Collaborate safely across cloud teams without corrupting live infrastructure state. • ✓ Automated IaC Policy/Security Checks (tfsec/Checkov) & CloudFormation StackSets — Purpose: Catch public S3 buckets or open security groups in CI before `terraform apply` runs.

8.1 Terraform Providers, HCL Modules, Variables, Outputs & Dependency Graphs [90 mins • Assignment (100M) • Hands-On Lab (50M) • 2 Mock Sets • 2 AI Vivas]

Purpose: To understand and apply Terraform Providers, HCL Modules, Variables, Outputs & Dependency Graphs in real AWS Certified Solutions Architect & Cloud Engineering Master Prog...

8.2 Remote S3 + Locking State Backends, Workspaces, Drift Detection & Imports [90 mins • Assignment (100M) • Hands-On Lab (50M) • 2 Mock Sets • 2 AI Vivas]

Purpose: To understand and apply Remote S3 + Locking State Backends, Workspaces, Drift Detection & Imports in real AWS Certified Solutions Architect & Cloud Engineering Master Pro...

8.3 Automated IaC Policy/Security Checks (tfsec/Checkov) & CloudFormation StackSets [90 mins • Assignment (100M) • Hands-On Lab (50M) • 2 Mock Sets • 2 AI Vivas]

Purpose: To understand and apply Automated IaC Policy/Security Checks (tfsec/Checkov) & CloudFormation StackSets in real AWS Certified Solutions Architect & Cloud Engineering Mast...

Module 8 Hands-On Capstone Project (100 Marks): Reusable Multi-Environment Terraform AWS Landing Zone Modules Repo — Architect, implement, test, and push the production GitHub repository 'Reusable Multi-Environment Terraform AWS Landing Zone Modules Repo' (strictly zero dummy scaffolding) demonstrating end...

MODULE 9 OF 16 • 30 LIVE + LAB HOURS • 2 TOPICS • 1 CAPSTONE PROJECT (100 MARKS)

Docker Containers, Amazon ECS Fargate & ECR Supply Chain

Real-repository engineering module covering Docker Containers, Amazon ECS Fargate & ECR Supply Chain with supervised live coding, ≥90% AI Mock Gates, and production GitHub PR verification.

Objectives: ✓ Multi-Stage Dockerfiles, Non-Root Hardening, ECR Lifecycle & Image Scanning — Purpose: Build minimal, CVE-scanned container images ready for enterprise cloud deployment. • ✓ Amazon ECS Task Definitions, Fargate Serverless Compute, Service Connect & Scaling — Purpose: Run containerized microservices on AWS without managing underlying EC2 patch cycles.

9.1 Multi-Stage Dockerfiles, Non-Root Hardening, ECR Lifecycle & Image Scanning [90 mins • Assignment (100M) • Hands-On Lab (50M) • 2 Mock Sets • 2 AI Vivas]

Purpose: To understand and apply Multi-Stage Dockerfiles, Non-Root Hardening, ECR Lifecycle & Image Scanning in real AWS Certified Solutions Architect & Cloud Engineering Master P...

9.2 Amazon ECS Task Definitions, Fargate Serverless Compute, Service Connect & Scaling [90 mins • Assignment (100M) • Hands-On Lab (50M) • 2 Mock Sets • 2 AI Vivas]

Purpose: To understand and apply Amazon ECS Task Definitions, Fargate Serverless Compute, Service Connect & Scaling in real AWS Certified Solutions Architect & Cloud Engineering M...

Module 9 Hands-On Capstone Project (100 Marks): Hardened Docker + ECR + AWS ECS Fargate Blue-Green Service Repo — Architect, implement, test, and push the production GitHub repository 'Hardened Docker + ECR + AWS ECS Fargate Blue-Green Service Repo' (strictly zero dummy scaffolding) demonstrating end-to...

MODULE 10 OF 16 • 30 LIVE + LAB HOURS • 2 TOPICS • 1 CAPSTONE PROJECT (100 MARKS)

Production Kubernetes on AWS (Amazon EKS)

Real-repository engineering module covering Production Kubernetes on AWS (Amazon EKS) with supervised live coding, ≥90% AI Mock Gates, and production GitHub PR verification.

Objectives: ✓ EKS Control Plane, Managed Node Groups, IRSA Pod IAM & AWS Load Balancer Controller — Purpose: Bind granular AWS IAM roles directly to Kubernetes service accounts securely. • ✓ EKS Storage (EBS/EFS CSI), HPA/Karpenter Autoscaling, NetworkPolicies & Helm — Purpose: Scale Kubernetes workloads dynamically and isolate multi-tenant namespaces on AWS.

10.1 EKS Control Plane, Managed Node Groups, IRSA Pod IAM & AWS Load Balancer Controller [90 mins • Assignment (100M) • Hands-On Lab (50M) • 2 Mock Sets • 2 AI Vivas]

Purpose: To understand and apply EKS Control Plane, Managed Node Groups, IRSA Pod IAM & AWS Load Balancer Controller in real AWS Certified Solutions Architect & Cloud Engineering...

10.2 EKS Storage (EBS/EFS CSI), HPA/Karpenter Autoscaling, NetworkPolicies & Helm [90 mins • Assignment (100M) • Hands-On Lab (50M) • 2 Mock Sets • 2 AI Vivas]

Purpose: To understand and apply EKS Storage (EBS/EFS CSI), HPA/Karpenter Autoscaling, NetworkPolicies & Helm in real AWS Certified Solutions Architect & Cloud Engineering Master...

Module 10 Hands-On Capstone Project (100 Marks): Terraform-Provisioned Amazon EKS, ALB Ingress & Karpenter Repo — Architect, implement, test, and push the production GitHub repository 'Terraform-Provisioned Amazon EKS, ALB Ingress & Karpenter Repo' (strictly zero dummy scaffolding) demonstrating end-to-...

MODULE 11 OF 16 • 30 LIVE + LAB HOURS • 2 TOPICS • 1 CAPSTONE PROJECT (100 MARKS)

DevSecOps CI/CD Pipelines & Automated Cloud Releases

Real-repository engineering module covering DevSecOps CI/CD Pipelines & Automated Cloud Releases with supervised live coding, ≥90% AI Mock Gates, and production GitHub PR verification.

Objectives: ✓ GitHub Actions OIDC Keyless AWS Auth, CodePipeline & Artifact Promotion — Purpose: Deploy to AWS from CI/CD with zero long-lived AWS secrets stored in GitHub. • ✓ Blue-Green, Canary & Rolling Deployments with Automated CloudWatch Rollbacks — Purpose: Ship production infrastructure and app updates multiple times a day without downtime.

11.1 GitHub Actions OIDC Keyless AWS Auth, CodePipeline & Artifact Promotion [90 mins • Assignment (100M) • Hands-On Lab (50M) • 2 Mock Sets • 2 AI Vivas]

Purpose: To understand and apply GitHub Actions OIDC Keyless AWS Auth, CodePipeline & Artifact Promotion in real AWS Certified Solutions Architect & Cloud Engineering Master Progr...

11.2 Blue-Green, Canary & Rolling Deployments with Automated CloudWatch Rollbacks [90 mins • Assignment (100M) • Hands-On Lab (50M) • 2 Mock Sets • 2 AI Vivas]

Purpose: To understand and apply Blue-Green, Canary & Rolling Deployments with Automated CloudWatch Rollbacks in real AWS Certified Solutions Architect & Cloud Engineering Master...

Module 11 Hands-On Capstone Project (100 Marks): GitHub Actions OIDC -> Terraform + ECS/EKS Canary Pipeline Repo — Architect, implement, test, and push the production GitHub repository 'GitHub Actions OIDC -> Terraform + ECS/EKS Canary Pipeline Repo' (strictly zero dummy scaffolding) demonstrating end-to...

MODULE 12 OF 16 • 30 LIVE + LAB HOURS • 2 TOPICS • 1 CAPSTONE PROJECT (100 MARKS)

Cloud Observability, Incident Response & Disaster Recovery

Real-repository engineering module covering Cloud Observability, Incident Response & Disaster Recovery with supervised live coding, ≥90% AI Mock Gates, and production GitHub PR verification.

Objectives: ✓ CloudWatch Metrics/Logs Insights, X-Ray Tracing, Prometheus & Cost Anomaly Alerts — Purpose: Gain single-pane visibility across latency, errors, audit trails, and cloud spend. • ✓ RPO/RTO Engineering — Backup & Restore, Pilot Light, Warm Standby & Active-Active — Purpose: Architect and test multi-region disaster recovery runbooks that meet strict SLAs.

12.1 CloudWatch Metrics/Logs Insights, X-Ray Tracing, Prometheus & Cost Anomaly Alerts [90 mins • Assignment (100M) • Hands-On Lab (50M) • 2 Mock Sets • 2 AI Vivas]

Purpose: To understand and apply CloudWatch Metrics/Logs Insights, X-Ray Tracing, Prometheus & Cost Anomaly Alerts in real AWS Certified Solutions Architect & Cloud Engineering Ma...

12.2 RPO/RTO Engineering — Backup & Restore, Pilot Light, Warm Standby & Active-Active [90 mins • Assignment (100M) • Hands-On Lab (50M) • 2 Mock Sets • 2 AI Vivas]

Purpose: To understand and apply RPO/RTO Engineering — Backup & Restore, Pilot Light, Warm Standby & Active-Active in real AWS Certified Solutions Architect & Cloud Engineering Ma...

Module 12 Hands-On Capstone Project (100 Marks): Multi-Region Pilot-Light / Warm-Standby DR & CloudWatch Repo — Architect, implement, test, and push the production GitHub repository 'Multi-Region Pilot-Light / Warm-Standby DR & CloudWatch Repo' (strictly zero dummy scaffolding) demonstrating end-to-en...

MODULE 13 OF 16 • 30 LIVE + LAB HOURS • 2 TOPICS • 1 CAPSTONE PROJECT (100 MARKS)

AWS Well-Architected Framework, FinOps & SAA-C03 Exam Mastery

Real-repository engineering module covering AWS Well-Architected Framework, FinOps & SAA-C03 Exam Mastery with supervised live coding, ≥90% AI Mock Gates, and production GitHub PR verification.

Objectives: ✓ 6 Pillars of AWS Well-Architected Framework, FinOps Savings Plans & Migration (DMS) — Purpose: Justify architectural trade-offs across security, reliability, performance, and cost. • ✓ Full-Length AWS Certified Solutions Architect Associate (SAA-C03) Scenario Labs — Purpose: Master tricky scenario trade-offs to clear both SAA-C03 and Cloud Architect interviews.

13.1 6 Pillars of AWS Well-Architected Framework, FinOps Savings Plans & Migration (DMS) [90 mins • Assignment (100M) • Hands-On Lab (50M) • 2 Mock Sets • 2 AI Vivas]

Purpose: To understand and apply 6 Pillars of AWS Well-Architected Framework, FinOps Savings Plans & Migration (DMS) in real AWS Certified Solutions Architect & Cloud Engineering...

13.2 Full-Length AWS Certified Solutions Architect Associate (SAA-C03) Scenario Labs [90 mins • Assignment (100M) • Hands-On Lab (50M) • 2 Mock Sets • 2 AI Vivas]

Purpose: To understand and apply Full-Length AWS Certified Solutions Architect Associate (SAA-C03) Scenario Labs in real AWS Certified Solutions Architect & Cloud Engineering Mast...

Module 13 Hands-On Capstone Project (100 Marks): Well-Architected Review Audit & SAA-C03 Scenario Drills Repo — Architect, implement, test, and push the production GitHub repository 'Well-Architected Review Audit & SAA-C03 Scenario Drills Repo' (strictly zero dummy scaffolding) demonstrating end-to-en...

MODULE 14 OF 16 • 30 LIVE + LAB HOURS • 2 TOPICS • 1 CAPSTONE PROJECT (100 MARKS)

Live Client Cloud Cutover & ≥90% Placement Guarantee Sprint

Real-repository engineering module covering Live Client Cloud Cutover & ≥90% Placement Guarantee Sprint with supervised live coding, ≥90% AI Mock Gates, and production GitHub PR verification.

Objectives: ✓ Live Client AWS Production Provisioning, Penetration Check & DR Failover Sign-Off — Purpose: Deliver the live CloudVault multi-AZ AWS landing zone and earn your Internship Letter. • ✓ ≥90% Mock + Voice AI Gate Verification & 6-Month 100-Opening Placement Launch — Purpose: Cross ≥90% on all tests/interviews and unlock 100+ Cloud & DevOps openings in 6 months.

14.1 Live Client AWS Production Provisioning, Penetration Check & DR Failover Sign-Off [90 mins • Assignment (100M) • Hands-On Lab (50M) • 2 Mock Sets • 2 AI Vivas]

Purpose: To understand and apply Live Client AWS Production Provisioning, Penetration Check & DR Failover Sign-Off in real AWS Certified Solutions Architect & Cloud Engineering Ma...

14.2 ≥90% Mock + Voice AI Gate Verification & 6-Month 100-Opening Placement Launch [90 mins • Assignment (100M) • Hands-On Lab (50M) • 2 Mock Sets • 2 AI Vivas]

Purpose: To understand and apply ≥90% Mock + Voice AI Gate Verification & 6-Month 100-Opening Placement Launch in real AWS Certified Solutions Architect & Cloud Engineering Master...

Module 14 Hands-On Capstone Project (100 Marks): CloudVault Multi-Region FinTech AWS Production Cutover Repo — Architect, implement, test, and push the production GitHub repository 'CloudVault Multi-Region FinTech AWS Production Cutover Repo' (strictly zero dummy scaffolding) demonstrating end-to-end...

MODULE 15 OF 16 • 14 LIVE + LAB HOURS • 3 TOPICS • 1 CAPSTONE PROJECT (100 MARKS)

Enterprise Multi-Account AWS Governance, Terraform Modules & Zero-Trust Security

Self-explanatory list-and-bullet production mastery module covering Enterprise Multi-Account AWS Governance, Terraform Modules & Zero-Trust Security in AWS Certified Solutions Architect & Cloud Engineering Master Program, paired with hands-on labs, capstone repository, Topic Mock Tests, and Spoken Gemini AI Viva.

Objectives: ✓ Modular Terraform IaC, Remote S3/Lock State, Policy-as-Code & Drift Detection — Purpose: Provision repeatable multi-AZ AWS infrastructure without manual console configuration drift. • ✓ AWS Organizations, IAM Identity Center, SCP Guardrails, KMS & VPC PrivateLink — Purpose: Architect enterprise security boundaries that pass banking and SaaS compliance audits. • ✓ Event-Driven Serverless & Container Hybrid Patterns (EKS, ECS Fargate, SQS, EventBridge) — Purpose: Select and integrate the right AWS compute & messaging primitives for resilience and cost. • ✓ Build, verify, and document 'Multi-Env Terraform Landing Zone with OIDC CI/CD, KMS, WAF & Private VPC Endpoints' with clean Git commits and edge-case protection. • ✓ Clear 100% of Topic Timed Mock Tests and Spoken Voice + Google Gemini AI Technical Interviews.

15.1 Modular Terraform IaC, Remote S3/Lock State, Policy-as-Code & Drift Detection [65 mins • Assignment (100M) • Hands-On Lab (50M) • 2 Mock Sets • 2 AI Vivas]

Purpose: To understand and apply Modular Terraform IaC, Remote S3/Lock State, Policy-as-Code & Drift Detection in real AWS Certified Solutions Architect & Cloud Engineering Master...

15.2 AWS Organizations, IAM Identity Center, SCP Guardrails, KMS & VPC PrivateLink [65 mins • Assignment (100M) • Hands-On Lab (50M) • 2 Mock Sets • 2 AI Vivas]

Purpose: To understand and apply AWS Organizations, IAM Identity Center, SCP Guardrails, KMS & VPC PrivateLink in real AWS Certified Solutions Architect & Cloud Engineering Master...

15.3 Event-Driven Serverless & Container Hybrid Patterns (EKS, ECS Fargate, SQS, EventBridge) [65 mins • Assignment (100M) • Hands-On Lab (50M) • 2 Mock Sets • 2 AI Vivas]

Purpose: To understand and apply Event-Driven Serverless & Container Hybrid Patterns (EKS, ECS Fargate, SQS, EventBridge) in real AWS Certified Solutions Architect & Cloud Enginee...

Module 15 Hands-On Capstone Project (100 Marks): Multi-Env Terraform Landing Zone with OIDC CI/CD, KMS, WAF & Private VPC Endpoints — Architect, implement, test, and document 'Multi-Env Terraform Landing Zone with OIDC CI/CD, KMS, WAF & Private VPC Endpoints' applying every bullet-wise engineering concept from Module 15 (E...

MODULE 16 OF 16 • 14 LIVE + LAB HOURS • 3 TOPICS • 1 CAPSTONE PROJECT (100 MARKS)

Multi-Region Disaster Recovery, FinOps Optimization & SAA-C03 / Placement Mastery

Self-explanatory list-and-bullet production mastery module covering Multi-Region Disaster Recovery, FinOps Optimization & SAA-C03 / Placement Mastery in AWS Certified Solutions Architect & Cloud Engineering Master Program, paired with hands-on labs, capstone repository, Topic Mock Tests, and Spoken Gemini AI Viva.

Objectives: ✓ Active-Passive & Active-Active Multi-Region DR with Route 53, Aurora Global & S3 CRR — Purpose: Design architectures meeting strict enterprise RTO/RPO SLA commitments. • ✓ AWS FinOps Cost Architecture, Performance Right-Sizing & Well-Architected Reviews — Purpose: Optimize NAT, data-transfer, compute, and storage spend by 35%+ without sacrificing SLA. • ✓ SAA-C03 Full-Blueprint Scenario Defense & Cloud Architect Placement Interviews — Purpose: Solve complex multi-service AWS architecture design prompts confidently in hiring loops. • ✓ Build, verify, and document 'Automated Multi-Region Failover Blueprint, CloudWatch SRE Suite & Cost Governance Repo' with clean Git commits and edge-case protection. • ✓ Clear 100% of Topic Timed Mock Tests and Spoken Voice + Google Gemini AI Technical Interviews.

16.1 Active-Passive & Active-Active Multi-Region DR with Route 53, Aurora Global & S3 CRR [65 mins • Assignment (100M) • Hands-On Lab (50M) • 2 Mock Sets • 2 AI Vivas]

Purpose: To understand and apply Active-Passive & Active-Active Multi-Region DR with Route 53, Aurora Global & S3 CRR in real AWS Certified Solutions Architect & Cloud Engineering...

16.2 AWS FinOps Cost Architecture, Performance Right-Sizing & Well-Architected Reviews [65 mins • Assignment (100M) • Hands-On Lab (50M) • 2 Mock Sets • 2 AI Vivas]

Purpose: To understand and apply AWS FinOps Cost Architecture, Performance Right-Sizing & Well-Architected Reviews in real AWS Certified Solutions Architect & Cloud Engineering Ma...

16.3 SAA-C03 Full-Blueprint Scenario Defense & Cloud Architect Placement Interviews [65 mins • Assignment (100M) • Hands-On Lab (50M) • 2 Mock Sets • 2 AI Vivas]

Purpose: To understand and apply SAA-C03 Full-Blueprint Scenario Defense & Cloud Architect Placement Interviews in real AWS Certified Solutions Architect & Cloud Engineering Maste...

Module 16 Hands-On Capstone Project (100 Marks): Automated Multi-Region Failover Blueprint, CloudWatch SRE Suite & Cost Governance Repo — Architect, implement, test, and document 'Automated Multi-Region Failover Blueprint, CloudWatch SRE Suite & Cost Governance Repo' applying every bullet-wise engineering concept from Module 1...

3. LIVE CLIENT PRODUCTION PROJECT, GLOBAL CERTIFICATIONS & CAREER SCOPE

End-of-Course Live Client Production Project + Official Internship Confirmation Letter

Project: CloudVault Multi-Region Active-Active AWS FinTech Landing Zone & EKS Platform • **Confirmed Role:** AWS Solutions Architect & Terraform Cloud Engineering Resident

Domain & Production Infra: Regulated FinTech & Enterprise Cloud Migration Client (AWS Multi-AZ VPC + Transit Gateway + ALB + EKS/ECS + Aurora + Terraform + OIDC CI/CD)

- Designed and provisioned modular Terraform IaC for Multi-AZ VPCs, private subnets, IAM OIDC roles, KMS, and AWS WAF.
- Architected highly available ECS/EKS compute tiers, Aurora Multi-AZ failover, DynamoDB streams, and CloudFront TLS edge.
- Engineered event-driven SQS/SNS/EventBridge pipelines, automated DR failover runbooks, and FinOps cost guardrails.
- Completed Well-Architected security/reliability audits and live production cutover with SAA-C03 readiness.

Aligned Global Vendor Certifications: **CLF-C02** (AWS Certified Cloud Practitioner) • **SAA-C03** (AWS Certified Solutions Architect – Associate) • **SAP-C02** (AWS Certified Solutions Architect – Professional) • **TA-003** (HashiCorp Certified: Terraform Associate (003)) • **CKA** (Certified Kubernetes Administrator (CKA))

Target Job Roles: AWS Cloud Engineer, Associate Solutions Architect (AWS), Cloud Infrastructure & Terraform Engineer, Cloud DevOps & Platform Engineer

Realistic Annual CTC Scope: **Placement-Guaranteed Cloud Engineer (0–1 Yr):** ₹6.0 LPA – ₹13.0 LPA **AWS Solutions Architect / Cloud DevOps (1–3 Yrs):** ₹14.0 LPA – ₹27.0 LPA **Principal Cloud Solutions Architect (3–6+ Yrs):** ₹28.0 LPA – ₹55.0+ LPA

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