Email: info@cloudbinary.in | Mobile: +91 91000 73006 | Web: cloudbinary.in

CLOUD BINARY · FORWARD DEPLOYED ENGINEER PROGRAM

AWS track · 2026

AWS FDE

Become a Forward Deployed Engineer who ships AI solutions on Amazon Web Services

LEARN BY DOING · OFFICIAL SYLLABUS

180 h	24 wks	19	1
live, instructor-led	4 phases	modules	project on AWS

cloudbinary.in · Online · Mentor-screened admission

Admissions & Mentorship: info@cloudbinary.in | Phone / WhatsApp: +91 91000 73006 | https://cloudbinary.in

TRACK AT A GLANCE

One FDE program, AWS in depth

The same 19-module Forward Deployed Engineer program as FDE Elite. Ten modules form the cloud-neutral FDE core (96 h). Nine modules (84 h) are taught entirely on AWS, and the production capstone is built and deployed there.

BEST FOR
Engineers targeting startups, SaaS and product companies running on AWS

GENAI PLATFORM
Amazon Bedrock

AGENTS
Bedrock Agents, Bedrock AgentCore, LangGraph, MCP

SERVERLESS AND CONTAINERS
Lambda, ECS, EKS

CI/CD
GitHub, CodeBuild, CodePipeline, Argo CD

INFRASTRUCTURE AS CODE
Terraform (AWS provider)

CURRICULUM

19 modules, 180 hours

Module	Module and topics	Hours	AWS services and tools	Hands-on drill
Phase 1 · Engineering Foundations				
M01	**FDE Introduction** Role, delivery models, the X-to-FDE roadmap	4 h	—	Core FDE lab (same in every track)
M02	**Python and TypeScript** Language fluency for scripts, APIs and agents	16 h	—	Core FDE lab (same in every track)
M03	**DSA and System Design** Complexity, HLD and LLD, design reviews	12 h	Designs drawn with AWS reference architectures	Core FDE lab (same in every track)
M04	**Git and GitHub** Branching, pull requests, hooks, branch protection	6 h	—	Core FDE lab (same in every track)
M05	**Linux Skills** Break-fix, systemd, Bash automation, networking	9 h	Lab servers run on AWS	Core FDE lab (same in every track)
Phase 2 · Full-Stack and Data				
M06	**Frontend Skills** React and TypeScript demo-ready apps	10 h	Deployed on AWS in M13	Core FDE lab (same in every track)
M07	**Backend Skills** Node.js, PostgreSQL, Redis, REST and GraphQL	14 h	Managed PostgreSQL on AWS	Core FDE lab (same in every track)

Module	Module and topics	Hours	AWS services and tools	Hands-on drill
M08	**Data Engineering** Data audit, ELT, lakehouse, orchestration	8 h	S3, Glue, Athena, Redshift Serverless, MWAA, DMS	Land messy customer CSVs in S3, catalogue with Glue, query in Athena
Phase 3 · AI Engineering, Agents and Integration				
M09	**AI Engineering** Foundation models, prompts, embeddings, RAG, evaluation, cost per answer	12 h	Bedrock, Knowledge Bases, S3 Vectors or OpenSearch Serverless, Guardrails, evaluations	RAG assistant over course PDFs with citations and a guardrail
M10	**AI Agents** Tool calling, memory, MCP, multi-agent, human approval	10 h	Bedrock Agents, AgentCore, Lambda tools, Step Functions, LangGraph	Ops agent that reads CloudWatch and opens a ticket after approval
M11	**Vibe Coding** Claude Code, Codex, Gemini, Cursor; spec-driven delivery	6 h	—	Core FDE lab (same in every track)
M12	**Enterprise Integration** Legacy adapters, queues, CDC, cutover	6 h	AWS messaging services	Core FDE lab (same in every track)
Phase 4 · Cloud, DevOps, Security and Delivery				
M13	**Cloud Platform: AWS** Identity, networking, compute, storage, databases, Terraform	16 h	IAM, VPC, EC2, Lambda, API Gateway, RDS/Aurora, S3, CloudFront, Route 53, ACM, Cognito	Three-tier app with Terraform modules and remote state
M14	**Containers and Kubernetes** Docker, registries, Kubernetes, Helm, autoscaling	10 h	ECR, ECS on Fargate, EKS, Load Balancer Controller	Ship the M07 API to EKS with Helm and HPA
M15	**DevOps** CI/CD, quality gates, GitOps, canary and rollback	10 h	GitHub, CodeConnections, CodeBuild, CodePipeline, CodeDeploy, Argo CD	PR-to-canary pipeline with auto-rollback
M16	**Security and Governance** Least privilege, secrets, encryption, AI safety, compliance	6 h	IAM Identity Center, KMS, Secrets Manager, WAF, GuardDuty, Security Hub, Guardrails	Threat-model the RAG app and fix 5 findings
M17	**MLOps** Model registry, serving open-weight models, batch inference	6 h	SageMaker AI endpoints, Pipelines, Model Registry; Bedrock custom model import	Serve an open-weight model and compare cost with Bedrock
M18	**Observability** Metrics, logs, traces, LLM telemetry, FinOps	6 h	CloudWatch, X-Ray, Application Signals, Bedrock invocation logs, Cost Explorer, Budgets	Dashboard for latency, tokens and cost per answer
M19	**Customer Delivery and Capstone** Discovery, SOW, executive demo, production handover	13 h	Capstone runs on AWS	Core FDE lab (same in every track)

Modules taught on AWS services · DSA practice and customer-communication drills run weekly throughout

PORTFOLIO

Production Capstone on AWS

P1 AI support assistant (RAG) for a SaaS company

Week 20

Bedrock, Knowledge Bases, Guardrails, Lambda, API Gateway, Cognito, CloudFront

Capstone Architecture & Deliverables (Weeks 20–24):

- End-to-end customer support RAG assistant with hybrid vector search, citation verification & guardrails.
- Fully automated serverless deployment on AWS Lambda, API Gateway, Amazon Cognito & CloudFront.
- Multi-tenant knowledge base ingestion pipeline with automated chunking, vector embeddings & metadata.
- Multi-tier Terraform (AWS) IaC configuration with remote S3 state locking and automated drift detection.
- Production GitHub Actions CI/CD pipeline, AWS IAM least-privilege review & Cost Explorer budget defense.
- Includes 10-minute executive architecture walkthrough and customer-handover viva defense.

✓ 1 Dedicated Production Capstone shipped to AWS with Terraform IaC, CI/CD, and live demo.

CERTIFICATION PATH

Certifications this track prepares you for

Level	Certification
Start (optional)	AWS Certified AI Practitioner
Core cloud	AWS Certified Solutions Architect – Associate
AI engineering	AWS Certified Generative AI Developer – Professional
Stretch	AWS Certified Machine Learning Engineer – Associate

Exam fees are paid to the vendor and are not part of the course. Certification names checked on 10 Nov 2026; vendors change exams often, so confirm on the official site before booking.

Want to go multi-cloud?

FDE Elite covers AWS, Azure and Google Cloud side by side with one project on each. Apply at cloudbinary.in: application, mentor screening, interview, admission.