

FULL CURRICULUM • 2026

Cloud Computing with AWS

Run the infrastructure the internet is built on.

Every module, every lesson — the complete syllabus, end to end.

31

MODULES

328

LESSONS

4

MONTHS

₹20,000

FULL PROGRAMME

What this course covers

1

Level 1 • Beginner

Course Overview • Creating an AWS Account • Origin of Cloud Computing

1 month • 9 modules • 46 lessons • ₹4,500

2

Level 2 • Intermediate

Cloud Providers • Introduction to AWS • IAM

1 month • 10 modules • 145 lessons • ₹6,500

3

Level 3 • Advanced

Databases & Caching • Containerization & Serverless Services • DNS Route 53

2 months • 12 modules • 137 lessons • ₹9,000

The whole journey

This is the complete syllabus for Cloud Computing with AWS — 31 modules and 328 lessons, in the order you will learn them. The level markers show how far each stage carries you, but the curriculum runs as one continuous path from the first lesson to the last.

1

LEVEL 1

Beginner

Course Overview · Creating an AWS Account · Origin of Cloud Computing

1 month · 9 modules · 46 lessons · ₹4,500

- **1. Course Overview** 1 lessons
 - Course Overview
- **2. Creating an AWS Account** 1 lessons
 - Creating AWS Account
- **3. Origin of Cloud Computing** 4 lessons
 - Origin of Cloud
 - Virtualization
 - Benefits of Virtualization
 - Uses and Future Aspects of Cloud Computing
- **4. Traditional IT Approach vs Cloud Computing** 5 lessons
 - Traditional IT Approach Overview
 - Problems with Traditional IT Approach
 - Cloud Computing Key Features
 - Benefits of Cloud
 - Tabular Comparison
- **5. Cloud Service Models** 6 lessons
 - Cloud Service Models Overview
 - Infrastructure as a Service
 - PaaS
 - SaaS
 - Tabular Comparison
 - Other Services
- **6. Cloud Deployment Models** 5 lessons
 - Cloud Deployment Models
 - Private & Public Cloud
 - Hybrid Cloud
 - Community Cloud
 - Cloud Deployment Models Overview

7. Cloud Computing Challenges

9 lessons

- Challenge 1 — Security
- Challenge 2 — Vendor Lock-in
- Challenge 3 — Monitoring
- Challenge 4 — Compliance
- Challenge 5 — Cost Management
- Challenge 6 — Migration
- Challenge 7 — Automation
- Challenge 8 — Performance & Latency
- Cloud Computing Challenges Overview

8. Networking1

9 lessons

- Network Design & Architecture
- Network Protocols Part 1
- Network Protocols Part 2
- Network Security
- Networking Devices
- Networking Fundamentals Part 1
- Networking Fundamentals Part 2
- Networking1 Overview
- Types of Network Architecture & Best Practices

9. Security Best Practices

6 lessons

- Account Management Security Services
- Backup & High Availability
- Encryption Fundamentals
- IAM
- Network Security
- Security Best Practices Overview

2

LEVEL 2

Intermediate

Cloud Providers · Introduction to AWS · IAM

1 month · 10 modules · 145 lessons · ₹6,500

10. Cloud Providers

8 lessons

- AWS
- Microsoft Azure
- GCP
- IBM Cloud
- Oracle Cloud Infrastructure
- Alibaba Cloud
- Digital Ocean
- Cloud Providers Overview

11. Introduction to AWS

6 lessons

- AWS
- AWS Cloud History & Future
- AWS Cloud Facts
- AWS Regions
- AWS Shared Responsibility Model
- Introduction to AWS Overview



12. IAM

13 lessons

- Users & Groups
- Hands-on IAM Roles
- IAM Security Tools
- Shared Responsibility Model for IAM
- Hands-on Users & Groups
- IAM Permissions
- IAM Policies
- IAM Policy Structure & Password Policy
- MFA
- Access to AWS
- Hands-on MFA & Access Keys
- IAM Roles
- IAM Overview



13. EC2

19 lessons

- EC2
- Placement Groups
- Hands-on Placement Groups
- ENIs
- EC2 Hibernate
- Hands-on EC2 Hibernate
- EC2 Purchasing Options
- EC2 Shared Responsibility Model
- Hands-on Purchasing Options
- AWS CLI
- Hands-on Launching First Instance
- EC2 Instance Types
- Hands-on Instance Types
- Security Groups
- Hands-on Security Groups
- Security Group Properties
- Classic Ports
- Public IP vs Private IP vs Elastic IP
- EC2 Overview



14. EC2 Instance Storage

15 lessons

- EBS Volumes
- EBS Encryption
- EFS
- EFS Hands-on
- EFS vs EBS
- Shared Responsibility Model
- EBS Hands-on
- EBS Snapshots
- Hands-on Multi-EBS Volumes
- Hands-on EBS Snapshots
- AMI
- Instance Store
- EBS Volume Types
- EBS Multi-Attach
- EC2 Instance Storage Overview

○ 15. Scalability & Load Balancing

19 lessons

- Scalability
- Cross-Zone Load Balancing
- Hands-on ALB
- Hands-on NLB
- Sticky Sessions
- Connection Draining
- Auto Scaling Group
- Note
- Best Practices
- Shared Responsibility Model
- High Availability
- Elasticity vs Scalability vs Agility
- Load Balancing
- Application Load Balancer
- Network Load Balancer
- Gateway Load Balancer
- Classic Load Balancer
- Load Balancing Types Comparison
- Scalability & LB Overview

○ 16. S3

20 lessons

- S3 Buckets & Objects
- S3 Storage Classes
- Hands-on Storage Classes
- S3 Lifecycle Rules
- Hands-on Lifecycle Rules
- S3 Performance Enhancers & Analytics
- S3 Batch Operations
- S3 Requester Pays
- Hands-on Requester Pays
- S3 Best Practices
- S3 Shared Responsibility Model
- Hands-on Creating Bucket & Uploading Objects
- S3 Bucket Policies
- Hands-on Bucket Policies
- Static Website Hosting
- Hands-on Hosting a Static Website
- S3 Versioning & Replication
- Hands-on Versioning
- Hands-on Replication
- S3 Overview

○ 17. S3 Security

13 lessons

- S3 Encryption Types
- Hands-on S3 Object Lock
- S3 Access Points
- Security Best Practices & Shared Responsibility Model
- Hands-on S3 Encryption
- S3 CORS
- S3 MFA Delete
- Hands-on MFA Delete
- S3 Access Logs Warning
- S3 Pre-Signed URLs
- Hands-on Pre-Signed URLs
- S3 Object Lock
- S3 Security Overview

○ 18. AWS Snow Family

8 lessons

- Edge Computing
- Snowball Edge
- Snowball Cone
- Snowmobile
- Snow Family Pricing Comparison
- Hands-on Snow Family
- Snow Family Best Practices & Shared Responsibility Model
- AWS Snow Family Overview

19. Databases & Analytics

24 lessons

- Relational Database
- Athena
- Hands-on Query S3 Data with Athena
- QuickSight
- AWS Neptune
- Hands-on Neptune
- QLDB
- Amazon Managed Blockchain
- Hands-on QLDB & Blockchain
- AWS Glue
- Timestream
- RDS
- Hands-on Timestream Database
- AWS DMS
- Hands-on DMS
- Shared Responsibility Model
- Hands-on RDS
- Amazon Aurora
- Hands-on Aurora
- DynamoDB
- DynamoDB Hands-on
- AWS EMR
- Redshift
- Databases & Analytics Overview

3

LEVEL 3

Advanced

Databases & Caching · Containerization & Serverless Services · DNS Route 53

2 months · 12 modules · 137 lessons · ₹9,000

20. Databases & Caching

6 lessons

- RDS Proxy
- Hands-on Connecting to RDS MySQL
- Aurora Advanced Features
- ElastiCache
- ElastiCache Hands-on
- Databases & Caching Overview

21. Containerization & Serverless Services

18 lessons

- Docker
- S3 Trigger Lambda Function
- EKS
- Hands-on EKS
- Lightsail
- Hands-on Lightsail
- API Gateway
- Hands-on API Gateway
- Best Practices
- ECS
- Hands-on ECS
- Fargate
- Hands-on ECS with EC2 & Fargate
- ECR
- Serverless
- Lambda
- Hands-on Lambda Function
- Containerization & Serverless Overview

○	22. DNS Route 53	8 lessons
	• DNS Fundamentals • Route 53 • Record Types • TTL • Routing Policies • Hands-on Route 53 • Best Practices & Shared Responsibility Model • DNS & Route 53 Overview	
○	23. Global Services	9 lessons
	• AWS Wavelength • CloudFront vs Global Accelerator • CloudFront • Global Accelerator Theory • Hands-on CloudFront • Hands-on Global Accelerator • Local Zones • S3 CORS • Global Services Overview	
○	24. Infrastructure Creation & Management Services	9 lessons
	• AWS CodeArtifact • Best Practices • CloudFormation • Dedicated Pipeline/DevOps Services • DevOps Basics • Elastic Beanstalk • Hands-on CloudFormation • Hands-on Elastic Beanstalk • Infrastructure Creation & Management Overview	
○	25. Storage Advanced	9 lessons
	• FSx • Hands-on FSx • AWS File Gateway • Hands-on Storage Gateway • Transfer Family • DataSync • App2Container • Best Practices • Storage Advanced Overview	
○	26. Monitoring	10 lessons
	• CloudWatch • Hands-on CloudWatch • CloudTrail • Hands-on CloudTrail • EventBridge • AWS X-Ray • AWS Health Dashboard • Hands-on Health Dashboard • Best Practices • Monitoring Overview	
○	27. Decoupling	9 lessons
	• Decoupling Fundamentals • SQS • SNS • Hands-on SNS • AWS Kinesis • Kinesis Types • MQ • Best Practices • Decoupling Overview	

○ 28. Networking2

14 lessons

- VPC
- Hands-on VPC Peering
- Transit Gateway
- VPC Endpoints
- Shared Responsibility Model
- Hands-on VPC
- VPC Subnets
- Hands-on Subnets
- VPC Flow Logs
- Hands-on Flow Logs
- Internet Gateway
- Hands-on Internet Gateway
- VPC Peering
- Networking2 Overview

○ 29. AI & ML Services

15 lessons

- AWS Rekognition
- Forecast
- AWS Kendra
- AWS Textract
- Services in Short
- Transcribe
- Hands-on Transcribe
- AWS Polly
- Hands-on Polly
- AWS Translate
- Hands-on Translate
- AWS Lex & Connect
- AWS Comprehend
- AWS SageMaker
- AI & ML Services Overview

○ 30. Security Services

19 lessons

- DDoS Protection
- Artifact
- GuardDuty
- Amazon Inspector
- AWS Config
- AWS Macie
- AWS Detective
- AWS Abuse Reports
- Root User Privileges
- Shared Responsibility Model
- Hands-on AWS Shield
- Hands-on WAF
- Network Firewall
- KMS & CloudHSM
- Hands-on KMS
- ACM
- Secrets Manager
- Hands-on Secrets Manager
- Security Services Overview

○ 31. Management & Billing Console

11 lessons

- AWS Organizations
- AWS Trusted Advisor
- SCPs
- Consolidated Billing
- AWS Control Tower
- AWS Resource Access Manager
- AWS Cost Explorer
- AWS Budgets
- Cost Anomaly Detection
- Hands-on Billing & Cost Management Console
- Management & Billing Console Overview

Certificates & what comes next

You receive a certificate at the end of every level you finish. Join for a single level or the full programme — the choice is yours. Learners who stand out may be invited to work on live client projects as interns; these places are merit-based, limited, and depend on projects being available.