

# Master the Cloud. Launch Your Career.

*Comprehensive AWS Cloud Training | Hands-On Labs | Industry Certification*

**500+**

Students Placed

**95%**

Pass Rate

**12+**

AWS Modules

**100%**

Practical Labs

# What is Amazon Web Services (AWS)?

## The World's Most Comprehensive Cloud Platform

Amazon Web Services (AWS) is the world's most adopted cloud platform, offering 200+ fully featured services from data centers globally. Millions of customers—including the fastest-growing startups, largest enterprises, and leading government agencies—trust AWS to power their infrastructure, become more agile, and lower costs.



### 200+ Services

Compute, Storage, DB, AI/ML, IoT, Security & more



### 32 Regions

99 Availability Zones worldwide for high availability



### \$90B+ Revenue

Largest cloud provider with 33% market share



### 1M+ Customers

From startups to Fortune 500 enterprises globally

## SERVICE MODELS

### IaaS

#### Infrastructure as a Service

Provides virtualized computing resources — servers, storage, networking. You manage OS and apps.

*e.g. AWS EC2, Azure VMs, Google Compute*

### PaaS

#### Platform as a Service

Platform for building, deploying, testing apps without managing infrastructure underneath.

*e.g. Google App Engine, AWS Elastic Beanstalk*

### SaaS

#### Software as a Service

Ready-to-use software over the internet. No installation, auto updates, accessible anywhere.

*e.g. Google Workspace, MS 365, Salesforce*

## DEPLOYMENT MODELS

### Public Cloud

Resources shared across multiple organizations via internet. Cost-effective & scalable. (AWS, Azure, GCP)

### Private Cloud

Dedicated cloud environment for single organization. Higher security & control. (OpenStack, VMware)

### Hybrid Cloud

Combination of public and private. Workloads move between both for flexibility and optimization.

### Multi-Cloud

Using services from 2+ cloud providers to avoid vendor lock-in and optimize cost and performance.

# AWS Core Services & Offerings



## Compute

- ✓ EC2 (Virtual Servers)
- ✓ Lambda (Serverless)
- ✓ ECS / EKS (Containers)
- ✓ Elastic Beanstalk
- ✓ AWS Fargate



## Storage & DB

- ✓ S3 (Object Storage)
- ✓ EBS (Block Storage)
- ✓ RDS / Aurora
- ✓ DynamoDB (NoSQL)
- ✓ ElastiCache / Redshift



## Networking

- ✓ VPC (Virtual Network)
- ✓ Route 53 (DNS)
- ✓ CloudFront (CDN)
- ✓ ELB (Load Balancer)
- ✓ AWS Direct Connect



## Security & IAM

- ✓ IAM (Identity Access)
- ✓ AWS Shield / WAF
- ✓ KMS (Key Management)
- ✓ CloudTrail / GuardDuty
- ✓ AWS Secrets Manager



## AI / ML

- ✓ SageMaker (ML Platform)
- ✓ Rekognition (Vision)
- ✓ Comprehend (NLP)
- ✓ Lex (Chatbots)
- ✓ Bedrock (Gen AI)



## DevOps & Tools

- ✓ CodePipeline / CodeBuild
- ✓ CloudFormation (IaC)
- ✓ CloudWatch (Monitoring)
- ✓ AWS CDK
- ✓ Systems Manager

## Amazon EC2 — Elastic Compute Cloud

- ✓ Resizable virtual servers in the cloud (instances)
- ✓ Instance types: General, Compute, Memory, Storage, GPU
- ✓ Pricing: On-Demand, Reserved, Spot, Dedicated
- ✓ Auto Scaling: Scale up/down based on demand
- ✓ Placement Groups for low-latency HPC workloads
- ✓ Elastic IPs for static public addressing
- ✓ User Data scripts for automated bootstrapping
- ✓ AMI (Amazon Machine Images) for quick launch

## AWS Lambda — Serverless Computing

- ✓ Run code without provisioning servers
- ✓ Supports: Python, Node.js, Java, Go, .NET
- ✓ Pay only for compute time used (ms billing)
- ✓ Triggers: S3, DynamoDB, API Gateway, SNS, SQS

## Containers: ECS, EKS & Fargate

- ✓ ECS: Managed Docker container orchestration
- ✓ EKS: Managed Kubernetes on AWS
- ✓ Fargate: Serverless containers (no EC2 needed)
- ✓ ECR: Elastic Container Registry for images
- ✓ App Runner: Fully managed web app deployment

## Amazon S3 — Simple Storage Service

- ✓ Unlimited object storage (0–5TB per object)
- ✓ 11 nines durability (99.999999999%)
- ✓ Storage classes: S3 Standard, IA, Glacier
- ✓ S3 Intelligent-Tiering auto-optimization
- ✓ Versioning, Replication, Lifecycle policies
- ✓ Static website hosting capability

## Block & File Storage

- ✓ EBS: Persistent block storage for EC2
- ✓ EBS Types: gp3, io2, st1, sc1
- ✓ EFS: Managed NFS (NFS file system)
- ✓ FSx: Windows File Server / Lustre
- ✓ Storage Gateway: Hybrid cloud storage
- ✓ AWS Backup: Centralized backup service

## Databases on AWS

- ✓ RDS: MySQL, PostgreSQL, Oracle, SQL Server
- ✓ Aurora: 5x faster MySQL, 3x faster PostgreSQL
- ✓ DynamoDB: Serverless NoSQL, single-digit ms
- ✓ ElastiCache: Redis / Memcached in-memory
- ✓ Redshift: Petabyte-scale data warehouse
- ✓ DocumentDB, Keyspaces, Neptune, QLDB



## AWS Networking Services

### Amazon VPC

Isolated virtual network — subnets, route tables, gateways, NACLs, Security Groups

### Route 53

Scalable DNS with health checks, traffic routing policies (latency, weighted, geo)

### CloudFront

Global CDN with 450+ edge locations, HTTPS, custom SSL, Lambda@Edge

### Elastic Load Balancing

ALB (HTTP/HTTPS), NLB (TCP/UDP), GLB (Appliances) — auto distributes traffic

### Direct Connect

Dedicated private network connection from on-premises to AWS

### API Gateway

Fully managed REST, HTTP, WebSocket APIs with throttling & auth

### Transit Gateway

Hub-and-spoke connectivity for VPCs and on-premises networks



## Security, Identity & Compliance

### AWS IAM

Users, Groups, Roles, Policies — least privilege access control (MFA, STS, SAML)

### AWS Shield

DDoS protection: Standard (free) + Advanced (\$3000/mo) with 24x7 DRT team

### AWS WAF

Web Application Firewall — filter malicious web requests with custom rules

### KMS (Key Management)

Create & control encryption keys — integrates with 100+ AWS services

### CloudTrail

Audit log of all API calls — governance, compliance & operational auditing









### GuardDuty

Intelligent threat detection using ML, anomaly detection & threat intelligence





### AWS Macie

Data security — discovers & protects sensitive data (PII) in S3 automatically

## AI & Machine Learning

-  **Amazon SageMaker**  
End-to-end ML platform — build, train, deploy models at scale
-  **Amazon Bedrock**  
Access leading foundation models (Claude, Llama, Titan) via API
-  **Amazon Rekognition**  
Image & video analysis — face detection, labels, text, moderation
-  **Amazon Comprehend**  
NLP: sentiment, entities, key phrases, topics from text
-  **Amazon Lex**  
Build voice & text chatbots (powers Amazon Alexa)
-  **Amazon Polly**  
Convert text to lifelike speech — 60+ voices, 29 languages
-  **Amazon Textract**  
Extract text & data from scanned documents, forms, tables
-  **Amazon Forecast**  
Time-series forecasting using ML — supply chain, demand planning

## DevOps & Infrastructure as Code

-  **AWS CodePipeline**  
Fully managed CI/CD — automate build, test, deploy workflows
-  **AWS CodeBuild**  
Managed build service — compile source code & run tests
-  **AWS CodeDeploy**  
Automate deployments to EC2, Lambda, ECS with rollback
-  **CloudFormation**  
Infrastructure as Code — provision AWS resources using YAML/JSON
-  **AWS CDK**  
Define cloud infra using Python, TypeScript, Java (higher-level IaC)
-  **CloudWatch**  
Monitoring & observability — metrics, logs, alarms, dashboards
-  **AWS Systems Manager**  
Operational hub — patch management, run commands, parameter store
-  **AWS Terraform Support**  
Industry-standard IaC tool with full AWS provider integration

## FOUNDATIONAL



### **AWS Cloud Practitioner (CLF-C02)**

Best for beginners — cloud concepts, pricing, security basics, AWS services overview.

## ASSOCIATE



### **Solutions Architect Associate (SAA-C03)**

Design resilient, cost-optimized, high-performing AWS architectures.



### **Developer Associate (DVA-C02)**

Build, deploy & debug cloud-based apps using AWS services & best practices.



### **SysOps Administrator Associate (SOA-C02)**

## PROFESSIONAL



### **Solutions Architect Professional (SAP-C02)**

Advanced architectural design — complex AWS solutions & migrations.



### **DevOps Engineer Professional (DOP-C02)**

Implement & manage CI/CD pipelines, automate security & governance.

01

## Cloud Fundamentals & AWS Basics

*Cloud models, AWS Global Infra, IAM, Billing, Free Tier*

02

## Compute: EC2, Lambda & Containers

*Instance types, AMIs, Auto Scaling, Lambda, ECS, EKS, Fargate*

03

## Storage: S3, EBS, EFS & Glacier

*Buckets, policies, versioning, lifecycle, storage classes, FSx*

04

## Databases: RDS, DynamoDB & More

*Aurora, Multi-AZ, Read Replicas, ElastiCache, Redshift, DynamoDB Streams*

05

## Networking: VPC, Route53 & CDN

*Subnets, NACLs, Security Groups, VPC Peering, Direct Connect, CloudFront*

06

## Security, IAM & Compliance

*MFA, Roles, Policies, KMS, CloudTrail, GuardDuty, WAF, Shield*

07

## DevOps: CI/CD, IaC & Monitoring

*CodePipeline, CodeBuild, CloudFormation, CDK, CloudWatch, X-Ray*

08

## AI/ML & Analytics on AWS

*SageMaker, Bedrock, Rekognition, Athena, Glue, QuickSight, EMR*

09

## Architecture Best Practices

*Well-Architected Framework, HA, DR strategies, Cost Optimization*

10

## Hands-On Projects & Exam Prep

*Real-world labs, mock tests, exam strategy, certification guidance*

## Why Choose Airoman Institute?



### Expert Faculty

AWS-certified trainers with 10+ years of industry experience



### 100% Hands-On

Live AWS console access, real projects, sandbox environments



### Certification Focused

Dedicated exam prep, mock tests, guaranteed pass strategy



### Placement Support

Resume building, interview prep, direct recruiter connect



### Small Batch Size

Personalized attention, doubt clearing, flexible timings



### Industry Curriculum

Updated syllabus aligned with latest AWS releases & exams

## Get In Touch

Start Your AWS Journey Today!



Phone

9911144059, 9911144051



Email

airoman.del@gmail.com  
info@airoman.in



Website

www.airoman.in



Location

Tilak Nagar Metro, Gate No. 3  
Double Story, Panther Brother Bldg 29/3  
1st Floor, Ashok Nagar, next to KFC  
New Delhi - 110018

