

Basic AWS Training Syllabus

Duration: 4 Months | Fee: Rs. 50000

Month 1: AWS Fundamentals & IAM

- Cloud Basics
 - * What is Cloud Computing?
 - * Cloud Deployment Models: Public, Private, Hybrid
 - * Cloud Service Models: IaaS, PaaS, SaaS

- Introduction to AWS
 - * Overview of AWS Services
 - * AWS Global Infrastructure: Regions, Availability Zones, Edge Locations
 - * Setting up AWS Free Tier Account

- Identity and Access Management (IAM)
 - * IAM Users, Groups, Roles and Policies
 - * MFA (Multi-Factor Authentication)
 - * IAM Policy Simulator and Best Practices

- AWS Billing and Pricing
 - * AWS Pricing Models: On-Demand, Reserved, Spot
 - * AWS Cost Calculator
 - * Budget Alerts and Billing Dashboard

Month 2: Core AWS Services

- Amazon EC2 (Elastic Compute Cloud)
 - * Launching, Connecting, and Managing EC2 Instances
 - * AMIs, Instance Types, Security Groups, Elastic IPs
 - * EC2 User Data and Metadata

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- Amazon S3 (Simple Storage Service)
 - * Creating Buckets and Managing Objects
 - * Bucket Policies, ACLs, Versioning, Lifecycle Policies
 - * S3 Static Website Hosting and Data Encryption

- Amazon RDS (Relational Database Service)
 - * Launching and Connecting to RDS Instances (MySQL, PostgreSQL)
 - * Backups, Monitoring, Multi-AZ and Read Replicas

- Amazon VPC (Virtual Private Cloud)
 - * Subnets, Route Tables, Internet Gateway
 - * NAT Gateway vs NAT Instance
 - * Security Groups vs NACLs

- AWS CLI and SDKs
 - * Installing and Configuring CLI
 - * Basic CLI Commands for S3, EC2, IAM

Month 3: Advanced Services & Security

- AWS Lambda
 - * Basics of Serverless and Function as a Service (FaaS)
 - * Writing and Deploying Functions using Console and CLI
 - * Event Triggers and Permissions

- Amazon CloudWatch and CloudTrail
 - * Monitoring AWS Resources with Metrics and Alarms
 - * CloudTrail for API Logging and Auditing

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- Auto Scaling and Load Balancing
 - * Configuring Launch Templates and Auto Scaling Groups
 - * Application Load Balancer vs Network Load Balancer

- AWS Security Tools
 - * Key Management Service (KMS)
 - * AWS Config, AWS Inspector, GuardDuty
 - * Shared Responsibility Model

Month 4: Hands-On Projects & Certification Preparation

- Hands-On Projects
 - * Host a Static Website using S3 and Route 53
 - * Deploy a Scalable 3-Tier Web App (EC2 + ELB + RDS)
 - * Serverless Architecture with Lambda, API Gateway, and DynamoDB

- AWS Certification Preparation
 - * Cloud Practitioner / Solutions Architect Exam Guide
 - * Practice Questions, Mock Exams, Scenario-Based Labs

- Career Preparation
 - * Resume Building with AWS Projects
 - * Interview Q&A on AWS Services and Architecture
 - * Real-World Case Study Discussion

Deliverables & Resources

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- 60-80 Hours of Live/Recorded Training
- Course Slides, Notes, Cheat Sheets
- AWS Hands-on Lab Access
- 2 Real-world Projects + 3 Practice Tests
- Certification Roadmap and Career Guidance