



# AWS



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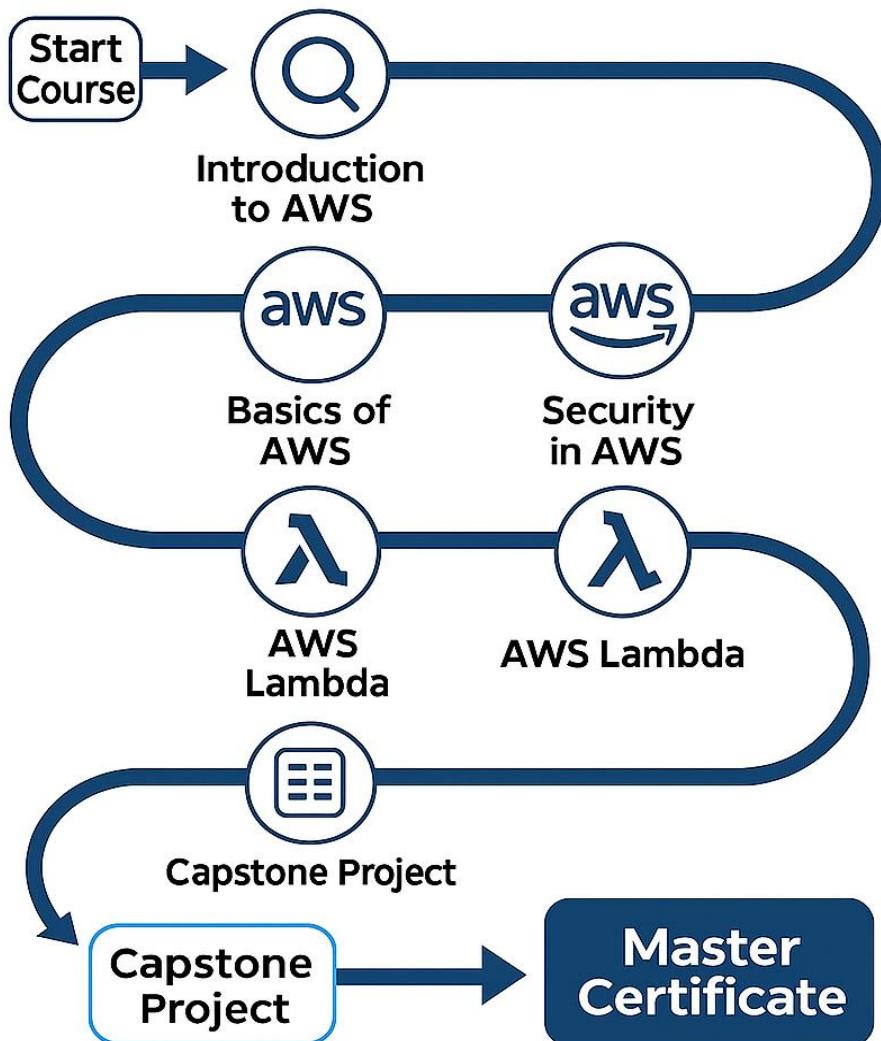


techsol626@gmail.com

# TechSol

We Build Professionals

## Modules of AWS



## Module 1: Introduction to Cloud Computing & AWS

- What is Cloud Computing?
- Benefits of Cloud Computing
- Cloud Service Models: IaaS, PaaS, SaaS
- Cloud Deployment Models: Public, Private, Hybrid
- Introduction to AWS
- AWS Global Infrastructure: Regions, Availability Zones, Edge Locations
- AWS Free Tier & Account Setup

## Module 2: AWS Core Services

### Compute

- Amazon EC2: Instance types, key pairs, AMIs, security groups
- EC2 Launch, Configuration, and SSH Access
- Auto Scaling and Elastic Load Balancer (ELB)
- AWS Lambda (Introduction to Serverless)

### Storage

- Amazon S3: Buckets, objects, storage classes, versioning, lifecycle policies
- Amazon EBS: Volumes, snapshots
- Amazon EFS: Scalable file storage
- Glacier (Archival storage)

 **Databases**

- Amazon RDS: MySQL, PostgreSQL, etc.
- Amazon DynamoDB: NoSQL
- Amazon Aurora
- Amazon Redshift (Data Warehousing - optional)

 **Module 3: IAM & Security**

- AWS Identity and Access Management (IAM)
- Users, Groups, Roles, and Policies
- Multi-Factor Authentication (MFA)
- AWS Organizations and Service Control Policies
- AWS KMS (Key Management Service) basics

 **Module 4: Networking & Content Delivery**

- Amazon VPC: Subnets, Route Tables, Internet Gateways, NAT Gateways
- Security Groups vs. Network ACLs
- Elastic IPs
- VPC Peering, Endpoints
- Amazon CloudFront (CDN)
- Route 53 (DNS and Domain Management)



## Module 5: Monitoring, Logging, & Management Tools

- Amazon CloudWatch (metrics, logs, alarms, dashboards)
- AWS CloudTrail (audit logs)
- AWS Config (compliance auditing)
- AWS Systems Manager (Run Command, Patch Manager)



## Module 6: Application & Developer Services

- AWS Elastic Beanstalk
- AWS CloudFormation (Infrastructure as Code)
- AWS CodePipeline, CodeCommit, CodeDeploy (CI/CD)
- AWS API Gateway
- Amazon SNS and SQS (Messaging Services)
- Step Functions



## Module 7: Cost Optimization & Billing

- AWS Pricing Models
- Cost Explorer
- AWS Budgets
- Trusted Advisor (cost and performance recommendations)
- Consolidated Billing and Savings Plans

 **Module 8: Real-World Projects (Hands-On Labs)**

- Hosting a static website on S3 + CloudFront
- Deploying a multi-tier web application using EC2 + RDS + ELB
- Serverless CRUD API with Lambda, API Gateway, DynamoDB
- CI/CD pipeline using CodePipeline + CodeDeploy
- Infrastructure automation using CloudFormation

 **Bonus: Exam Preparation (If pursuing certification)**

- AWS Certified Cloud Practitioner (Beginner)
- AWS Certified Solutions Architect – Associate (Intermediate)
- Practice tests and whitepapers
- Exam strategies and tips