AWS CLF-C02 + SAA-C03 Full Course Outline (Titles Only)

Cloud Concepts

Benefits of Cloud Computing

- Cost Optimization
- Scalability
- Elasticity
- High Availability
- Global Reach

Cloud Models

- IaaS
- PaaS
- SaaS

Deployment Models

- Public Cloud
- Private Cloud
- Hybrid Cloud
- Multi-Cloud

AWS Infrastructure

- Regions
- Availability Zones
- Edge Locations

Security & Compliance

Shared Responsibility Model

- Customer Responsibilities
- AWS Responsibilities

IAM

- Users
- Groups
- Roles
- Policies

Security Services

- WAF
- Shield
- GuardDuty
- Inspector

Core Services

Compute

- EC2

- Lambda
- Auto Scaling
- Elastic Beanstalk

Storage

- S3
- EBS
- EFS
- Glacier

Database

- RDS
- DynamoDB
- Redshift

Networking

- VPC
- Subnets
- Internet Gateway
- Security Groups

Architecture Design

High Availability

- Multi-AZ
- Failover
- Load Balancer

Fault Tolerance

- Backup & Restore
- Warm Standby
- Active/Active

Decoupling

- SQS
- SNS
- EventBridge

Performance Optimization

Compute Optimization

- Instance Types
- Placement Groups

Storage Optimization

- S3 Classes
- Lifecycle Policies

Database Optimization

- Read Replicas

• Multi-AZ DB

Caching

• ElastiCache
• CloudFront

Cost Optimization

Pricing Models

• On-Demand
• Reserved Instances
• Spot Instances

Cost Tools

• Cost Explorer
• Budgets

Networking Advanced

VPC Advanced

• CIDR
• Route Tables
• NAT Gateway

Hybrid Connectivity

• VPN
• Direct Connect

DNS

• Route53 Policies

Monitoring & Logging

Monitoring

• CloudWatch Metrics
• Alarms

Logging

• CloudTrail
• VPC Flow Logs

Migration

Strategies

• Rehost
• Replatform
• Refactor

Tools

• Snowball
• DataSync

Labs

EC2 Lab

• Launch Instance
• Configure Security
• Install Web Server

VPC Lab

• Create VPC
• Subnets
• Routing

Scaling Lab

• Load Balancer
• Auto Scaling

Real Projects

3-Tier Architecture

• Web Layer
• App Layer
• Database Layer

Highly Available System

• Load Balancer
• Auto Scaling
• Multi-AZ DB

Exam Simulator

Practice Questions

• MCQ
• Scenario-Based

Case Studies

• Architecture Design
• Cost Optimization