

# AWS Certified Cloud Practitioner (CLF-C02) Training

## Module 1 – Introduction to Cloud Computing and AWS

- Introduction to Cloud Computing
- Differences Between Traditional Infrastructure and the Cloud
- IaaS, PaaS, and SaaS Models
- Cloud Types: Public, Private, and Hybrid
- Overview of Amazon Web Services
- AWS Global Infrastructure
- AWS Regions and Availability Zones
- Overview of the AWS Management Console

## Module 2 – AWS Global Infrastructure and Cloud Architecture

- AWS Global Infrastructure
- Regions and Availability Zones
- Edge Locations
- High Availability and Resilience
- Scalability and Elasticity
- Introduction to the AWS Well-Architected Framework
- Performance and Optimization Concepts

## Module 3 – AWS Compute Services

- Overview of Amazon EC2
- EC2 Instance Types
- Elastic Load Balancing
- Auto Scaling
- Introduction to AWS Lambda
- Introduction to AWS Container Services
- Amazon ECS and AWS Fargate
- Use Cases for AWS Compute Services

## Module 4 – AWS Storage and Databases

- Amazon S3
- S3 Storage Classes
- Versioning and Archiving
- Amazon S3 Glacier
- Amazon EBS and Amazon EFS
- Introduction to Amazon RDS
- Introduction to Amazon Aurora
- Introduction to Amazon DynamoDB
- Comparison of AWS Storage Solutions

## Module 5 – AWS Networking

- Introduction to Cloud Networking
- Amazon VPC
- Public and Private Subnets
- Security Groups
- Route Tables
- Internet Gateway
- Amazon Route 53
- Amazon CloudFront

## Module 6 – Security and Access Management

- AWS Shared Responsibility Model
- AWS Identity and Access Management (IAM)
- Users, Groups, and Roles
- IAM Policies
- Multi-Factor Authentication (MFA)
- AWS Organizations
- AWS Key Management Service (AWS KMS)
- AWS Shield and AWS WAF
- AWS Security Best Practices

## Module 7 – AWS Monitoring, Governance, and Support

- Amazon CloudWatch
- AWS CloudTrail
- AWS Config
- AWS Trusted Advisor
- AWS Health Dashboard
- AWS Cloud Governance
- Compliance and Auditing
- AWS Support Plans

## Module 8 – AWS Pricing and Cost Optimization

- AWS Pricing Model
- AWS Billing
- AWS Free Tier
- AWS Pricing Calculator
- AWS Cost Explorer
- AWS Budgets
- Cost Optimization
- Reserved Instances and Savings Plans

## Module 9 – AWS Architecture Best Practices

- Introduction to the AWS Well-Architected Framework
- The Well-Architected Pillars

- High Availability
- Resilience
- Scalability
- Performance Optimization
- Cost Optimization
- Simple AWS Case Studies

## Module 10 – Preparation for the AWS CLF-C02 Certification

- Overview of the AWS Certified Cloud Practitioner Exam
- Exam Structure and Domains
- Certification-Style Questions
- Review of Essential Concepts
- Comparison of Key AWS Services
- Methodology for Answering AWS Exam Questions
- Review Quizzes
- Practice Exam and Detailed Review

## Module 11 – AWS Application Integration, Analytics, AI/ML, and Migration

- Introduction to Application Integration on AWS
- Amazon SQS and Message Queue Management
- Amazon SNS and Notifications
- Amazon EventBridge and Event-Driven Architecture
- Introduction to Cloud Application Development on AWS
- Overview of AWS SDKs and APIs
- Introduction to AWS Elastic Beanstalk
- Principles of Application Deployment on AWS
- Introduction to AWS CI/CD Pipelines
- Overview of Amazon Athena
- Introduction to Amazon Redshift
- Overview of AWS AI/ML Services
- Introduction to Amazon SageMaker
- Artificial Intelligence Use Cases on AWS
- Introduction to AWS Migration Hub
- Overview of AWS Application Migration Service
- AWS Cloud Migration Strategies
- Backup and Recovery with AWS Backup