



AWS Cloud Practitioner Training Curriculum

STRUCTURE



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“Join Croma Campus for the AWS Cloud Practitioner Course and gain all essential skills needed to build a foundation in the cloud space.”

Course Objectives:

- Define what the AWS Cloud is and the basic global infrastructure
- Describe the key services on the AWS platform and their common use cases
- Describe basic AWS Cloud architectural principles
- Describe basic security and compliance aspects of the AWS platform and the shared security model
- Define the billing, account management, and pricing models
- Identify sources of documentation or technical assistance (e.g., whitepapers, support tickets)
- Describe the AWS Cloud value proposition
- Describe basic/core characteristics of deploying and operating in the AWS Cloud.
- Prepare for the related global certification exam and earn credentials.

Course Description:

This course is designed from absolute scratch and is intended for individuals who intend to begin their journey into AWS and give the AWS Cloud Practitioner Certification. With easy to understand videos, dedicated Exam preparation section, and 300+ practice questions, this course is all that is needed to gain the AWS Cloud Practitioner certification. With more than 65,000+ students on-board, join us into the awesome journey on AWS.

The Cloud Practitioner Certification course is an ideal starting point for non-technical people looking to understand Cloud Computing from a business perspective. With a blend of instructional course, hands-on lab, quizzes and a preparation exam, this course will help you to prepare and master the AWS Certified Cloud Practitioner exam.

All the best for a new beginning and successful career ahead!

Certification Details:

- Name: AWS cloud Practitioner Associate
- Cost: \$100 USD
- Time: 90 mins
- Exam type: Multiple types, Multiple responses
- Passing Score – 1000/700

Course Content:

Module 1: Fundamentals of Cloud Computing

- Introduction to the Course
- Introduction to Cloud computing
- Fundamentals of Cloud computing
- Cloud Computing Models
- Architecture of Cloud Environments

- On-Demand & Self Service - Characteristics of Cloud
- Characteristic of CSP – Elasticity

Module 2: Understanding Core AWS Services

- AWS Global Infrastructure
- Setting up Labs
- Setting up SSH Client
- Overview of Key Based Authentication
- Launching First EC2 Instance
- Browser Based SSH Connection
- Creating First Website on EC2
- Understanding Basics of Firewall
- Multi-Factor Authentication
- Creating our first IAM user
- AWS Budgets
- Virtual Private Cloud (VPC)
- Overview of VPC Peering
- Network ACL
- Introduction to Block & Object Storage Mechanism
- Introduction to Elastic Block Store
- Instance Store Volumes
- Introduction to ELB
- Creating our first Elastic Load Balancer
- Document - Important Pointer - ELB
- Resource Level Tags
- Auto Scaling
- Introduction to S3
- S3 - Public Access Settings
- S3 Storage Classes
- New S3 Storage Class - Intelligent-Tiering
- New S3 Storage Class - One Zone-IA
- New S3 Storage Class - Glacier Deep Archive
- Static Website Hosting with AWS S3
- S3 Lifecycle Policies
- Overview of Databases
- Introduction to RDS
- Connecting to RDS via CLI
- RDS Multi-AZ
- Overview of Amazon Aurora
- Understanding CloudWatch
- Understanding Simple Notification Service
- Introduction to DNS
- Packet capture of DNS records through Wireshark
- Understanding DNS Records
- Understanding Route53
- Understanding Serverless Architecture & Lambda
- Getting Started with AWS Lambda

- Introduction to Content Delivery Networks
- Understanding Edge Locations
- Deploying CloudFront Distribution
- S3 Transfer Acceleration
- Infrastructure as Code
- Understanding CloudFormation
- Amazon Recognition
- Overview of AWS Elastic Beanstalk
- AWS Code Commit
- Overview of CloudWatch Logs
- Business Intelligence and Data Warehouse
- Overview of Message Brokers
- Simple Queue Service (SQS)
- AWS Snowball
- AWS Elastic Cache
- AWS Storage Gateway
- Disaster Recovery Techniques
- AWS Global Accelerator
- Amazon Polly

Module 3: Billing and Support Services

- AWS Well-Architected Framework
- AWS Personal Health Dashboard
- AWS Pricing Model
- EC2 Pricing in Detail
- Reserved Instances in Detail
- AWS Support Plans
- The TCO calculator
- AWS Whitepapers & Documentations
- AWS Organization & Consolidated Billing
- AWS Marketplace

Module 4: Security Aspects

- Amazon Partner Network (APN)
- Understanding Shared Responsibility Model
- Understanding principle of least privilege
- Identity & Access Management
- AWS CLI
- Compliance
- AWS Artifact
- Overview of AWS Config
- AWS Trusted Advisor
- Understanding CloudTrail
- Real World example on DOS Implementation
- AWS Shield

- AWS Direct Connect
- Use Case of Hacked Server
- Dealing with Compromised AWS Account
- AWS Abuse Reports
- Amazon Machine Image (AMI)
- AWS Macie
- Vulnerability, Exploit, Payload
- Overview of AWS Inspector
- AWS Athena
- Patching Activity

AWS Certified Cloud Practitioner (CLF-C01) Exam Guide

Introduction

The AWS Certified Cloud Practitioner (CLF-C01) examination is intended for individuals who have the knowledge, skills, and abilities to demonstrate basic knowledge of the AWS platform, including: available services and their common use cases, AWS Cloud architectural principles (at the conceptual level), account security, and compliance.

The candidate will demonstrate an understanding of AWS Cloud economics including: costs, billing, and analysis, and the value proposition of the AWS Cloud.

It validates an examinee's ability to:

- Explain the value of the AWS Cloud.
- Understand and explain the AWS shared responsibility model.
- Understand AWS Cloud security best practices.
- Understand AWS Cloud costs, economics, and billing practices.
- Describe and position the core AWS services, including compute, network, databases, and storage.
- Identify AWS services for common use cases.

Recommended AWS Knowledge

It is recommended that candidates have at least 6 months of experience with the AWS Cloud in any role, including traditional and non-traditional students, educators, and individuals exploring the AWS Cloud, including project managers, IT managers, sales managers, decision makers, and marketers, as well as those working in finance, procurement, and legal departments.

Recommended General IT Knowledge

Candidates should have a basic understanding of IT services and their uses in the AWS Cloud platform.

Exam Content

Response Types

There are two types of questions on the examination:

- **Multiple choice:** Has one correct response and three incorrect responses (distractors).
- **Multiple response:** Has two or more correct responses out of five or more options.

Select one or more responses that best complete the statement or answer the question. Distractors, or incorrect answers, are response options that an examinee with incomplete knowledge or skill would likely choose. However, they are generally plausible responses that fit in the content area defined by the test objective. Unanswered questions are scored as incorrect; there is no penalty for guessing.

Unscored Content: Your examination may include unscored items that are placed on the test to gather statistical information. These items are not identified on the form and do not affect your score.

Exam Results:

The AWS Certified Cloud Practitioner (CLF-C01) examination is a pass or fail exam. The examination is scored against a minimum standard established by AWS professionals who are guided by certification industry best practices and guidelines.

Your results for the examination are reported as a score from 100–1,000, with a minimum passing score of 700. Your score shows how you performed on the examination as a whole and whether or not you passed. Scaled scoring models are used to equate scores across multiple exam forms that may have slightly different difficulty levels.

Your score report contains a table of classifications of your performance at each section level. This information is designed to provide general feedback concerning your examination performance. The examination uses a compensatory scoring model, which means that you do not need to “pass” the individual sections, only the overall examination.

Each section of the examination has a specific weighting, so some sections have more questions than others. The table contains general information, highlighting your strengths and weaknesses. Exercise caution when interpreting section-level feedback.

Exam Outline:

This exam guide includes weightings, test domains, and objectives only. It is not a comprehensive listing of the content on this examination. The table below lists the main content domains and their weightings.

Domain	% of Examination
Domain 1: Cloud Concepts	26%
Domain 2: Security and Compliance	25%
Domain 3: Technology	33%
Domain 4: Billing and Pricing	16%
TOTAL	100%

Domain 1: Cloud Concepts

- 1.1 Define the AWS Cloud and its value proposition
- 1.2 Identify aspects of AWS Cloud economics
- 1.3 List the different cloud architecture design principles

Domain 2: Security and Compliance

- 2.1 Define the AWS shared responsibility model
- 2.2 Define AWS Cloud security and compliance concepts
- 2.3 Identify AWS access management capabilities
- 2.4 Identify resources for security support

Domain 3: Technology

- 3.1 Define methods of deploying and operating in the AWS Cloud
- 3.2 Define the AWS global infrastructure
- 3.3 Identify the core AWS services
- 3.4 Identify resources for technology support

Domain 4: Billing and Pricing

- 4.1 Compare and contrast the various pricing models for AWS
- 4.2 Recognize the various account structures in relation to AWS billing and pricing
- 4.3 Identify resources available for billing support

AWS Certified Cloud Practitioner (CLF-C01) Sample Exam Questions

Question 1) Why is AWS more economical than traditional data centers for applications with varying compute workloads?

- A) Amazon EC2 costs are billed on a monthly basis.
- B) Users retain full administrative access to their Amazon EC2 instances.
- C) Amazon EC2 instances can be launched on demand when needed.
- D) Users can permanently run enough instances to handle peak workloads.

Answer:

Option “C” – The ability to launch instances on demand when needed allows users to launch and terminate instances in response to a varying workload. This is a more economical practice than purchasing enough on-premises servers to handle the peak load.

Question 2) Which AWS service would simplify the migration of a database to AWS?

- A) AWS Storage Gateway
- B) AWS Database Migration Service (AWS DMS)
- C) Amazon EC2

D) Amazon App Stream 2.0

Answer:

Option "B" – AWS DMS helps users migrate databases to AWS quickly and securely. The source database remains fully operational during the migration, minimizing downtime to applications that rely on the database. AWS DMS can migrate data to and from most widely used commercial and open-source databases.

Question 3) Which AWS offering enables users to find, buy, and immediately start using software solutions in their AWS environment?

- A) AWS Config
- B) AWS Ops Works
- C) AWS SDK
- D) AWS Marketplace

Answer:

Option "D" – AWS Marketplace is a digital catalog with thousands of software listings from independent software vendors that makes it easy to find, test, buy, and deploy software that runs on AWS.
