AWS Cloud Practitioner Course

The AWS Certified Cloud Practitioner examination is intended for individuals who have the knowledge and skills necessary to effectively demonstrate an overall understanding of the AWS Cloud, independent of specific technical roles addressed by other AWS Certifications.

Course Duration:
- 22 Hr.

No of Classes:
- 14 Classes

Course Material:
- Lectures (PDF)
- Lab Manual (PDF)

Abilities Validated by the Certification

- Define what the AWS Cloud is and the basic global infrastructure
- Describe basic AWS Cloud architectural principles
- Describe the AWS Cloud value proposition
- Describe key services on the AWS platform and their common use cases (for example, compute and analytics)
- 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 (for example, whitepapers or support tickets)
- Describe basic/core characteristics of deploying and operating in the AWS Cloud

Syllabus

Introduction to Cloud Computing

- Understanding Cloud Computing
- Benefit and Feature of Cloud Computing
- Explain on Platform as a Service (PaaS), SaaS, IaaS
- Cloud Trends
- Public and Private Cloud
- Principles of Parallel and Distributed Computing
- Depth explain on Virtualization
- Architecture of Cloud Computing
- Major Player on Cloud Infrastructure

Understanding Core AWS Service

- Introduction to Amazon Web Services
- AWS Global Infrastructure
- Multi-Factor Authentication

- Creating our first IAM user
- Launching First EC2 Instance
- Introduction to Block & Object Storage Mechanism
- Introduction to Elastic Block Store
- Auto Scaling
- Introduction to S3
- S3 Storage Classes
- S3 Lifecycle Policies
- Introduction to Relational Databases
- Understanding RDS
- Understanding NoSQL Databases
- Understanding CloudWatch
- Understanding Route53
- Introduction to Content Delivery Networks
- Understanding Edge Locations
- Deploying CloudFront Distribution
- S3 Transfer Acceleration
- Infrastructure as Code
- Understanding CloudFormation
- Amazon Recognition
- Overview of AWS ElasticBeanstalk

Billing and Support Services

- AWS Well-Architected Framework
- AWS Pricing Model
- AWS Support Plans
- The TCO calculator
- AWS Whitepapers & Documentations

AWS Security

- Understanding Shared Responsibility Model
- Understanding principle of least privilege
- Identity & Access Management
- AWS CLI
- IAM Role
- Compliance
- AWS Trusted Advisor
- Understanding AWS Inspector
- AWS Direct Connect

AWS Exam Preparation

- Overview of Cloud Practitioner Exam
- Important Pointers
- Important Whitepapers
- Mock Test