

# AWS Cloud Financial Management for Builders

## Total Duration -5 Days

### Course outline

#### Day 1:-

##### Module 0: Course Overview

- Course introduction

##### Module 1: Introduction to Cloud Financial Management

- Introduction to Cloud Financial Management
- Four pillars of Cloud Financial Management

##### Module 2: Resource Tagging

- Tagging resources
- Hands-On Lab: Cost optimization: Control Resource Consumption Using Tagging and AWS Config

#### Day 2:-

##### Module 3: Pricing and Cost

- Fundamentals of pricing
- AWS Free Tier
- Volume discounts
- Savings plans and Reserved Instances
- Demonstration: AWS Pricing Calculator

##### Module 4: AWS Billing, Reporting, and Monitoring

- Understanding AWS invoices
- Reporting and planning
- AWS Cost Explorer
- AWS Budgets
- Demonstration: AWS Billing Console

- Demonstration: AWS Cost Explorer
- Demonstration: Trusted Advisor
- Hands-On Lab: Cost optimization: Deploy Ephemeral Environments Using Amazon EC2 Auto Scaling

## **Day 3:-**

### **Module 5: Architecting for Cost: Compute**

- Evolution of compute efficiency
- Amazon EC2 right-sizing
- Purchasing options
- Architect for Amazon EC2 Spot Instance
- Impact of software licensing
- Demonstration: Compute Optimizer
- Demonstration: Spot Instance Advisor
- Hands-On Lab: Cost optimization: Right Size Amazon EC2 Instances Using Amazon CloudWatch Metrics

### **Module 6: Architecting for Cost: Networking**

- Data transfer costs
- Understand data costs for different services
- How to triage network costs
- Hands-On Lab: Cost optimization: Reduce Data Transfer Costs Using Amazon CloudFront and Endpoints

## **Day 4:-**

### **Module 7: Architecting for Cost: Storage**

- Amazon EBS cost, pricing, and best practices
- Amazon S3 cost, pricing, and best practices
- Amazon EFS cost, pricing, and best practices
- Hands-On Lab: Cost optimization: Reduce Storage Costs Using Amazon S3 Lifecycle Management

## **Module 8: Architecting for Cost: Databases**

- Amazon RDS cost, pricing, and best practices
- Amazon Aurora cost, pricing, and best practices
- Amazon DynamoDB cost, pricing, and best practices
- Amazon ElastiCache cost, pricing, and best practices
- Amazon Redshift cost, pricing, and best practices

**Day 5:-**

## **Module 9: Cost Governance**

- Setting up AWS Organizations
- AWS Systems Manager

## **Module 10: Course Summary**

- Course review
- Hands-On Lab: Cost optimization: Reduce Compute Costs Using AWS Instance Scheduler