AWS – Amazon Web Services Cloud Financial Management for Builders

Description

This 3-day course is for individuals who seek an understanding of how to manage, optimize, and estimate costs as you run workloads on AWS. You will learn how to implement architectural best practices, explore cost-optimization strategies, and design patterns to help you architect cost-efficient solutions on AWS.

Course Content
Module 1: Cloud Financial Management

- Lesson 1: Introduction to Cloud Financial Management
- Lesson 2: Four pillars of Cloud Financial Management

Module 2: Cost Management Approach

- Lesson 1: Implementing Cloud Financial Management
- Lesson 2: Tagging resources

Module 3: Pricing Basics

- Lesson 1: Fundamentals of pricing
- Lesson 2: AWS Free Tier
- Lesson 3: Volume discounts

Module 4: Optimize Purchases

- Lesson 1 : Savings plans and Reserved Instances
- Lesson 2 : Instance Reservations
- Lesson 3 : Savings plans vs Instance Reservations

Module 5: AWS Billing, Reporting, and Monitoring

- Lesson 1: Understanding AWS invoices
- Lesson 2: Reporting and planning
- Lesson 3: AWS Cost Explorer
- Lesson 4: AWS Budgets

Module 6: Architecting for Cost: Compute and Optimization

- Lesson 1: Evolution of compute efficiency
- Lesson 2: Amazon EC2 right-sizing
- Lesson 3: Purchasing options
- Lesson 4: Architect for Amazon EC2 Spot Instance
- Lesson 5: Impact of software licensing

Module 7: Architecting for Cost: Networking

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- Lesson 1: Data transfer costs
- Lesson 2: Understand data costs for different services
- Lesson 3: How to triage network costs

Module 8: Architecting for Cost: Storage

- Lesson 1: Amazon EBS cost, pricing, and best practices
- Lesson 2: Amazon S3 cost, pricing, and best practices
- Lesson 3: Amazon EFS cost, pricing, and best practices

Module 9: Architecting for Cost: Databases

- Lesson 1: Amazon RDS cost, pricing, and best practices
- Lesson 2: Amazon Aurora cost, pricing, and best practices
- Lesson 3: Amazon DynamoDB cost, pricing, and best practices
- Lesson 4: Amazon ElastiCache cost, pricing, and best practices
- Lesson 5: Amazon Redshift cost, pricing, and best practices

Lab / Exercises

- Lab 1: Cost optimization: Control resource consumption using tagging and AWS Config
- Lab 2: Cost optimization: Right size Amazon EC2 instances using Amazon CloudWatch metrics
- Lab 3: Cost optimization: Deploy ephemeral environments using Amazon EC2 Auto Scaling
- Lab 4: Cost Optimization: Reduce data transfer costs using Amazon CloudFront and endpoints
- Lab 5: Cost Optimization: Reduce storage costs using Amazon S3 Lifecycle management
- Lab 6: Setting up AWS Organizations
- Lab 7: AWS Systems Manager
- Lab 8: Course Summary

Documentation

- Digital courseware included

Participant profiles

- Solutions architects
- Developers
- Cost-optimization leads
- System administrators
- Cloud-savvy technical learners who need to understand building and operating cost-efficient architectures

Prerequisites

- Having followed or have the equivalent knowledge: Architecting on AWS

Objectives

- Explain the cost of core AWS services
- Determine and estimate costs associated with current and future cloud workloads
- Use strategies and best practices to reduce AWS costs
- Use AWS tools to manage, monitor, alert, and optimize your AWS spend
- Apply strategies to monitor service costs and usage
- Implement governance standards, including resource tagging, account structure, provisioning,

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Classroom Registration Price (CHF)
2500
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Duration (in Days)
3
Reference
AWS-14

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