AWS Cloud Financial Management for Builders – Intensive Training («AWSA08»)

This course is for individuals who seek an understanding of how to manage, optimize, and predict costs as you run workloads on AWS.

Duration: 3 days
Price: 2'500.–
Course documents: Digital original AWS course books

Content

You learn how to implement architectural best practices, explore cost optimization strategies, and design patterns to help you architect cost-efficient solutions on AWS.

Day 1 Module

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

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
- AWS Cloud Financial Management for Builders
- AWS Classroom Training

Day 2

Module 5: Architecting for Cost: Compute

- Evolution of compute efficiency

- Amazon EC2 right-sizing
- Purchasing options
- Amazon CloudWatch monitoring and automation
- Architect for Amazon EC2 Spot Instance
- Automate the infrastructure provision
- Manage capacity to optimize resource usage
- Impact of software licensing
- Serverless solutions to reduce costs
- 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
- AWS Cloud Financial Management for Builders
- AWS Classroom Training

Day 3

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

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

Key Learnings

- Explaining the cost of core AWS services
- Determining and predicting costs associated with current and future cloud workloads
- Using strategies and best practices to reduce AWS costs
- Using AWS tools to manage, monitor, alert, and optimize your AWS costs
- Applying strategies to monitor service costs and usage
- Implementing governance standards, including resource tagging, account structure, provisioning, permissions, and access

Target audience

This course is intended for the following job roles:

- Solution Architect
- CloudOps
- DevOps
- Financial Builder

Why should you attend this specific course? What are my benefits from taking this course? The **Voice of the Instructor answers these questions**. We have asked our instructor team to write a short text about WHY this course is very relevant for the respective job roles and what you can expect from attending the course. You can find this section in the course description under the «*Additional Information*» section.

Requirements

We recommend that attendees of this course have attended the following course (or have equivalent knowlege) if you are in the Financial Builder track:

- Architecting on AWS with Best Practice – Intensive Training («AWSA10»)
- Architecting on AWS – Intensive Training («AWSA01»)

Additional information

Voice of the Instructor

The «AWS Cloud Financial Management for Builders» course is aimed at individuals interested in optimizing their financial management skills within the AWS cloud environment. This comprehensive course equips Cloud architects, Cloud Operators, and developers in charge of building AWS-based platforms and workloads with valuable knowledge and practical techniques to effectively manage costs, maximize ROI, and drive financial efficiency in their AWS deployments.
By attending this course, participants can expect to gain insights into the following:

1. Cost Optimization strategies specific to AWS, enabling attendees to identify cost-saving opportunities, implement cost control measures, and optimize resource allocation.
2. Financial Governance is crucial in managing cloud budgets effectively— requiring knowledge of establishing financial controls, defining budgetary guidelines, and enforcing policies that align with business objectives. Participants will learn about AWS billing and account structures, budgeting best practices, and establishing effective cost allocation and chargeback mechanisms.
3. Cost Reporting and Analysis - generating meaningful cost reports and conducting thorough cost analyses to gain deeper visibility into cost drivers. This enables organizations to make data-driven decisions and optimize costs based on actionable insights using standard AWS tools such as Cost Explorer, Budgets, and Cost and Usage Reports to track spending and analyze trends while receiving different levels of feedback.

4. Cost-effective Architecture Design - The course emphasizes the importance of designing cost-effective architectures from the ground up. Participants will learn best practices for selecting the right AWS services, implementing resource optimization techniques, and leveraging AWS pricing models to design cost-efficient solutions. This knowledge empowers architects and builders to create cloud architectures that deliver maximum value while minimizing costs.

The «AWS Cloud Financial Management for Builders» course equips individuals with the skills and knowledge to optimize costs, enhance financial governance, and drive financial efficiency in AWS cloud deployments. By implementing the strategies and best practices learned in this course, attendees can make informed decisions, maximize ROI, and continuously improve their financial management posture on AWS.

Further courses

- Advanced Developing on AWS with JAM – Intensive Training («AWSD2J»)
- Running Containers on Amazon Elastic Kubernetes Service (Amazon EKS) – Intensive Training («AWSA09»)
- MLOps Engineering on AWS – Intensive Training («AWSS07»)
- Developing Serverless Solutions on AWS – Intensive Training («AWSS08»)
- Advanced Developing on AWS – Intensive Training («AWSD02»)

Any questions?

We are happy to advise you on +41 44 447 21 21 or info@digicomp.ch. You can find detailed information about dates on www.digicomp.ch/courses-it-provider/amazon-web-services-aws/aws-financial-builder/course-aws-cloud-financial-management-for-builders-intensive-training