

## AWS Cloud Financial Management for Builders

**Duration: 3 Days    Course Code: GK4511    Delivery Method: Company Event**

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### Overview:

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

- Course level: Intermediate
- Duration: 3 days

### Activities

This course includes presentations, hands-on labs, and demonstrations.

### Company Events

These events can be delivered exclusively for your company at our locations or yours, specifically for your delegates and your needs. The Company Events can be tailored or standard course deliveries.

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### Target Audience:

This course is intended for:

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

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| ■ In this course, you will learn to:  | ■ Use AWS tools to manage, monitor, alert, and optimize your AWS spend   |
| ■ Explain the cost of core AWS services   | ■ Apply strategies to monitor service costs and usage  |
| ■ Determine and estimate costs associated with current and future cloud workloads | ■ Implement governance standards, including resource tagging, account structure, provisioning, permissions, and access |
| ■ Use strategies and best practices to reduce AWS costs                           |  |
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### Prerequisites:

We recommend that attendees of this course have:

- Architecting on AWS classroom training
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## Content:

### 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

#### 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 2

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

#### Module 10: Course Summary

- Course review

## Further Information:

For More information, or to book your course, please call us on 0800/84.009

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[www.globalknowledge.com/en-be/](http://www.globalknowledge.com/en-be/)