

CLOUD MANAGEMENT AND SECURITY: PRINCIPLES AND BEST PRACTICE

"Master Cloud Governance, Operations, and Security to Build a Resilient Digital Infrastructure."

Schedule

Venue (InHouse)	Fees
At Your Organization Premises	Ask For The Quotation

► **Available delivery methods:** In-House Training

Introduction

Cloud computing has become the backbone of modern IT infrastructure, offering scalability, flexibility, and cost-efficiency. However, as organizations increasingly migrate to the cloud, managing and securing cloud environments has become a critical priority. Misconfigurations, data breaches, and compliance failures can lead to severe business and financial risks.

The Cloud Management and Security: Principles and Best Practice course provides participants with a comprehensive understanding of how to effectively manage cloud infrastructure while ensuring data privacy, compliance, and resilience. This program covers cloud governance, security architectures, risk assessment, and operational management for multi-cloud environments. Participants will gain hands-on knowledge of implementing best practices to secure cloud platforms such as AWS, Azure, and Google Cloud, as well as understanding shared responsibility models and cloud security frameworks.

Objectives

By the end of this course, participants will be able to:

- Understand cloud computing concepts, architectures, and deployment models.
- Implement cloud management strategies for governance and cost optimization.
- Identify security challenges unique to cloud environments.
- Apply cloud security frameworks and compliance standards (ISO 27017, NIST, GDPR).
- Design and deploy secure cloud infrastructures.
- Manage user access, authentication, and encryption effectively.
- Conduct risk assessments, incident response, and cloud audits.
- Integrate automation tools for security monitoring and configuration management.

Why Attend

This course is designed to help professionals master the management and protection of cloud environments. As organizations increasingly adopt hybrid and multi-cloud infrastructures, the demand for professionals with expertise in cloud governance and security continues to grow. Participants will learn both the technical and managerial aspects of cloud operations, ensuring they can maintain security, compliance, and efficiency in dynamic IT ecosystems.

Target Audience

This course is suitable for:

- IT and Cloud Infrastructure Managers
- System and Network Administrators
- Cybersecurity Professionals
- DevOps and Cloud Engineers
- Compliance and Risk Management Officers
- IT Auditors and Consultants
- Anyone involved in managing, securing, or auditing cloud-based environments

Individual Benefits

- Develop a strong understanding of cloud management and security fundamentals.
- Gain practical experience in securing cloud infrastructures and data.
- Learn to balance agility and compliance in multi-cloud environments.
- Enhance professional credibility with in-demand cloud security expertise.
- Stay updated with the latest global cloud security frameworks and standards.
- Improve your ability to manage cloud governance and cost optimization.

Organizational Benefits

- Strengthen the organization's cloud security posture and resilience.
- Ensure compliance with international cloud governance standards.
- Reduce risk of data loss, breaches, and misconfigurations.
- Improve cloud operational efficiency and cost-effectiveness.
- Build in-house capability to manage hybrid and multi-cloud architectures.
- Support sustainable and secure digital transformation initiatives.

Instructional Methodology

The training emphasizes practical, scenario-based learning through:

- Interactive lectures and expert-led sessions
- Real-world cloud management and security case studies
- Guided hands-on labs using AWS, Azure, or Google Cloud
- Group discussions and problem-solving exercises
- Simulation of cloud threat detection and response scenarios
- Continuous feedback and personalized mentoring

Course Outline

- Module 1: Introduction to Cloud Computing and Deployment Models
- Module 2: Cloud Architecture, Services (IaaS, PaaS, SaaS), and Management Principles
- Module 3: Cloud Governance, Compliance, and Cost Optimization
- Module 4: Cloud Security Fundamentals and Shared Responsibility Model
- Module 5: Identity and Access Management (IAM) in the Cloud
- Module 6: Data Protection, Encryption, and Key Management
- Module 7: Risk Assessment and Incident Response in Cloud Environments
- Module 8: Automation, Monitoring, and Cloud Security Tools
- Module 9: Securing Hybrid and Multi-Cloud Environments
- Module 10: Capstone Project – Designing a Secure Cloud Management Strategy

Certification

Upon successful completion, participants will receive a Certificate in Cloud Management and Security: Principles and Best Practice, validating their knowledge and capability to manage and secure cloud infrastructures effectively. This certification demonstrates proficiency in applying global best practices in cloud governance, security, and operational excellence across enterprise environments.

Why Choose MAWA Events

- **Global Expertise:** More than 17 years of experience in professional training and consulting.
- **Industry-Leading Faculty:** Courses delivered by seasoned professionals with hands-on experience.
- **Practical Insights:** Learn to turn theory into actionable strategies for real-world business impact.
- **Client-Focused Solutions:** Customized programs designed to achieve your organisation's unique goals.

In-House / Customized Training

Interested in running this course for your team?

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