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Information Technology

Cloud Computing Masterclass

Course Introduction

This training course is designed to provide participants with the essential concepts of the entire cloud infrastructure and its latest standards which will help cloud security professionals in gaining the required knowledge, skills, and abilities in cloud security design, architecture, operations, and compliance with regulatory frameworks.

The training course is designed to be interactive and participatory and includes various learning tools to enable the participants to operate effectively and efficiently in a multifunctional environment. The course will use lectures and presentations, exercises, experiential, and exposure to real-world problems and policy choices confronting delegates.

Target Audience

- Cloud Computing Engineer
- Computer Network Specialist
- Computer Support Specialist
- Database Administrator
- Information Technology Analyst
- Information Technology Leadership
- Information Security Specialist
- Software/Application Developer
- Web Developer
- Technology sales consultant

Learning Objectives

- Gain a comprehensive understanding of cloud computing architecture, design, applications, and operations.
- Understand the Cloud Compliance Standards and know how to achieve compliance.
- Have the expertise and knowledge to set security policies to protect the cloud apps and cloud data from being compromised.
- Effectively design a framework for selecting the best cloud solution for your business.
- Acquire competence in cloud security architecture, design, operations, and service orchestration.

Course Outline

- **Day 01**
  - Introduction to Cloud
  - Cloud Service Models
  - Cloud deployment Model
  - Cloud Industry Standards for security
  - How is cloud security different from traditional security?
  - Top cloud security risks
  - Security issues in IaaS
  - Security issues in PaaS
  - Security issues in SaaS
  - Cloud Data Security
- **Day 02**
  - Management of Cloud Computing Risks
  - Cloud shared responsibility model
  - Cloud Migration challenges
  - BCP/DR Issues
  - Cloud Forensics Challenges
  - Cloud Incident Response
- **Day 03**
  - Performing due diligence on your CSP
  - Access and Identity Management (CASB)

- ◦ Case studies/ Cloud breaches
- ◦ Audit Criteria for Cloud Service Providers
- ◦ Enterprise risk management in the cloud
- ◦ Governance Factors to Consider When Using Cloud Computing
- **Day 04**
  - ◦ Cloud compliance standards:
  - ◦ CSA CCM
  - ◦ CIAQ
  - ◦ ISO 27017 overview
  - ◦ ISO 27018 overview
  - ◦ ISO/IEC 27701 for cloud
  - ◦ Cloud Computing Compliance Controls Catalogue (C5)
  - ◦ **Achieving Compliance with cloud:**
  - ◦ HIPAA
  - ◦ PCI DSS
  - ◦ ISO 27001
  - ◦ GDPR

- **Day 05**
  - ◦ Common CSP (AWS, Azure, Oracle)
  - ◦ Architecture Review
  - ◦ Configuration review
  - ◦ Review of SaaS
  - ◦ Review of PaaS
  - ◦ Vulnerability assessment and Penetration test (network)
  - ◦ Container security
  - ◦ Overview of DevSecOps
  - ◦ CSP security services
  - ◦ Security monitoring in the cloud

Confirmed Sessions

FROM	TO	DURATION	FEES	LOCATION
Dec. 15, 2025	Dec. 19, 2025	5 days	4250.00 $	UAE - Dubai

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