



Strategic Cloud Infrastructure Design and Migration

20 - 24 Jun 2027
Cairo (Egypt)



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Introduction

The Strategic Cloud Infrastructure Design and Migration course provides professionals with advanced knowledge in planning, designing, and migrating enterprise workloads to modern cloud environments. It focuses on aligning cloud transformation initiatives with organizational strategy, operational efficiency, and digital resilience. Participants will explore cloud architecture models, migration frameworks, workload optimization, and infrastructure modernization strategies. The course addresses critical considerations such as scalability, security, governance, disaster recovery, and cost management in hybrid and multi-cloud ecosystems. It also examines best practices for cloud adoption, infrastructure assessment, and phased migration planning. Through structured theoretical learning and practical case-based analysis, participants will build the strategic capability to manage cloud transformation initiatives effectively.

Targeted Groups

This Strategic Cloud Infrastructure Design and Migration training targets professionals seeking knowledge and skills:

- Cloud infrastructure managers.
- IT strategy leaders.
- Digital transformation specialists.
- Enterprise architects.
- Systems engineers.
- Data center managers.
- Cloud migration consultants.
- Infrastructure security professionals.
- Technology operations managers.
- Network administrators are planning cloud adoption.
- Business continuity specialists.
- DevOps leaders managing cloud deployments.

Course Objectives

Participants will achieve the following objectives by completing the Strategic Cloud Infrastructure Design and Migration course:

- Understand strategic cloud infrastructure planning principles.
- Analyze enterprise cloud migration frameworks.
- Evaluate public, private, and hybrid cloud models.
- Design scalable cloud architecture solutions.
- Assess workload suitability for migration.
- Build cloud transformation roadmaps.
- Identify risks in cloud migration projects.
- Develop governance and compliance structures.
- Strengthen cloud security architecture planning.
- Improve cloud cost optimization strategies.

- Plan business continuity and disaster recovery in cloud environments.
- Apply infrastructure automation strategies.
- Evaluate migration tools and deployment models.
- Enhance operational resilience in cloud ecosystems.
- Measure cloud performance and optimization metrics.
- Align cloud adoption with business growth strategies.

Targeted Competencies

Participants will gain the following competencies during the Strategic Cloud Infrastructure Design and Migration program:

- Strategic cloud planning.
- Cloud infrastructure design.
- Enterprise workload assessment.
- Hybrid cloud management.
- Multi-cloud strategy development.
- Cloud migration roadmap creation.
- Infrastructure risk analysis.
- Cloud security planning.
- Disaster recovery design.
- Governance and compliance management.
- Cloud cost optimization.
- Infrastructure performance monitoring.
- Migration execution planning.
- Resource allocation strategy.
- Cloud scalability analysis.

Studying Scenarios

In this Strategic Cloud Infrastructure Design and Migration training, participants develop skills through the following scenarios:

- Assessing legacy infrastructure for cloud readiness.
- Designing a hybrid cloud environment for enterprise systems.
- Planning phased migration for mission-critical applications.
- Building a secure cloud governance framework.
- Managing cloud infrastructure costs in large organizations.
- Developing disaster recovery plans for cloud operations.
- Evaluating multi-cloud deployment strategies.
- Solving migration bottlenecks in enterprise workloads.

Course Content

Unit 1: Foundations of Strategic Cloud Infrastructure

- Understanding cloud computing fundamentals and business value.
- Evolution of enterprise infrastructure modernization.
- Cloud service models: IaaS, PaaS, and SaaS.
- Public cloud, private cloud, and hybrid cloud infrastructure.
- Strategic drivers for cloud adoption and migration.
- Cloud readiness assessment models.

- Infrastructure scalability and elasticity concepts.
- Aligning cloud strategy with digital transformation goals.

Unit 2: Cloud Architecture Design and Planning

- Principles of enterprise cloud architecture design.
- Designing highly available cloud infrastructure.
- Building fault-tolerant and resilient environments.
- Network architecture planning in cloud ecosystems.
- Storage strategy for cloud-based systems.
- Compute resource planning and optimization.
- Identity and access management architecture.
- Designing for performance and low latency.

Unit 3: Cloud Migration Strategy and Execution

- Migration strategy models and planning frameworks.
- Assessing workloads for cloud migration.
- Application dependency mapping.
- Lift-and-shift migration methodology.
- Refactoring and replatforming strategies.
- Data migration planning and synchronization.
- Migration phases and deployment sequencing.
- Managing downtime and service continuity.

Unit 4: Security, Governance, and Compliance in Cloud Infrastructure

- Cloud security architecture fundamentals.
- Data protection and encryption strategies.
- Identity governance and access control policies.
- Regulatory compliance in cloud platforms.
- Risk management for cloud migration projects.
- Cloud security monitoring and incident response.
- Governance frameworks for hybrid cloud environments.
- Business continuity and disaster recovery planning.

Unit 5: Optimization, Monitoring, and Future Cloud Strategies

- Cloud cost optimization and resource efficiency.
- Monitoring cloud performance and service health.
- Capacity planning for growing cloud workloads.
- Infrastructure automation and orchestration strategies.
- AI-driven cloud operations and predictive monitoring.
- Multi-cloud optimization strategies.
- Sustainable cloud infrastructure practices.
- Future trends in cloud migration and enterprise infrastructure design.

Final Insights & Key Takeaways

Strategic cloud infrastructure design and migration require a balance between scalability, security, cost optimization, and operational resilience. Mastering structured cloud migration planning enables organizations to accelerate digital transformation while maintaining stability, compliance, and long-



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term performance excellence.



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