



MICROSOFT TRAINING

Migrating Workloads To Azure

Master the process of migrating your organization's workloads to Microsoft Azure. Achieve efficient, secure, and cost-effective cloud transitions.

DURATION

16 hours

LEVEL

Intermediate

FORMAT

Instructor-Led

- Globally Recognized Certification

- Expert-Led Hands-On Training

- Flexible Scheduling

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COURSE OVERVIEW

This intermediate-level course on Migrating Workloads To Azure provides comprehensive training for IT professionals looking to master the art and science of transitioning on-premises infrastructure to Microsoft Azure. You will delve into core Azure migration services, understanding not just the 'how' but also the 'why' behind strategic cloud adoption. The curriculum covers a wide array of migration scenarios, including servers, databases, and applications, utilizing powerful Azure tools like Azure Migrate, Azure Site Recovery, Azure Database Migration Service, and Azure Data Box. You'll gain practical experience in assessing current environments, planning effective migration strategies, executing seamless transitions, and optimizing post-migration operations.

Upon completion, you will be equipped with the expertise to lead successful cloud migration projects, ensuring minimal disruption, enhanced performance, and significant cost efficiencies for your organization. This course emphasizes best practices for designing scalable, secure, and resilient Azure environments, fostering a deep understanding of hybrid cloud architectures and data transfer mechanisms. It's designed to elevate your career by making you an invaluable asset in an era where cloud transformation is paramount.

Duration	16 hours
Level	Intermediate
Vendor	Microsoft

COURSE CURRICULUM

01 Module 1: Introduction to Azure Migration and Assessment

- Understanding Cloud Migration Drivers and Benefits
- Azure Cloud Adoption Framework Overview
- Migration Strategies: Rehost, Refactor, Re-architect, Rebuild, Replace
- Introduction to Azure Migrate and its Components
- Discovery and Assessment of On-premises Environments (Servers, Databases, Web Apps)
- Dependency Mapping and Workload Grouping
- Cost Analysis and Optimization for Azure Migration

02 Module 2: Server Migration to Azure Virtual Machines

- Planning for Server Migration to Azure IaaS
- Using Azure Migrate Server Migration Tool for VMs (VMware, Hyper-V, Physical Servers)
- Agent-based vs. Agentless Replication
- Testing Migrations and Performing Failover
- Post-migration Configuration and Optimization of Azure VMs
- Troubleshooting Common Server Migration Issues

03 Module 3: Database Migration Strategies

- Assessing On-premises Databases for Azure Migration
- Introduction to Azure Database Migration Service (DMS)
- Migrating SQL Server to Azure SQL Database and Azure SQL Managed Instance
- Migrating SQL Server to SQL Server on Azure VMs
- Strategies for Migrating Open-source Databases (e.g., MySQL, PostgreSQL)
- Data Synchronization and Cutover Techniques

Module 4: Application Migration and Modernization

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- Evaluating Web Applications for Cloud Migration
 - Migrating Web Apps to Azure App Service
 - Using Azure App Service Migration Assistant
 - Introduction to Containerization for Application Migration (Docker, Azure Kubernetes Service)
 - Strategies for Migrating Legacy Applications
 - Serverless Options for Application Modernization

05 **Module 5: Data Migration and Hybrid Connectivity**

- Migrating Unstructured Data to Azure Storage (Blob, File, Disk)
- Using Azure Data Box Family for Large-scale Offline Data Transfer
- Azure Storage Sync for Hybrid File Shares
- Establishing Hybrid Connectivity: VPN Gateway and ExpressRoute
- Networking Considerations for Migrated Workloads
- Data Security and Compliance during Migration

06 **Module 6: Post-Migration Optimization and Management**

- Monitoring and Managing Migrated Workloads in Azure
- Cost Management and Optimization Strategies in Azure
- Implementing Azure Security Best Practices for Migrated Resources
- Performance Tuning of Azure Resources
- Backup and Disaster Recovery for Azure Workloads
- Automation and Governance of Cloud Resources

CAREER PATHWAYS

Graduates of this program are prepared for the following roles:

- > **Cloud Migration Engineer**
- > **Azure Solutions Architect (specializing in migration)**
- > **Hybrid Cloud Administrator**
- > **Cloud Infrastructure Specialist**

FREQUENTLY ASKED QUESTIONS

Q: What specific types of on-premises workloads will I learn to migrate to Azure, and what are the primary Azure tools covered in this course?

This course provides comprehensive training on migrating various on-premises workloads, including virtual machines (VMware, Hyper-V, physical servers), diverse databases (SQL Server, MySQL, PostgreSQL), and web applications. You will gain hands-on experience with key Azure services such as Azure Migrate for discovery and assessment, Azure Site Recovery for server replication, Azure Database Migration Service (DMS) for database transitions, Azure App Service Migration Assistant for web applications, and Azure Data Box for large-scale data transfers.

Q: Beyond technical execution, what strategic planning skills will this course develop to ensure successful, cost-effective Azure migrations?

This course goes beyond merely showing you how to use migration tools. It emphasizes strategic planning by teaching you how to assess existing environments, perform dependency mapping, conduct detailed cost analysis, and select

appropriate migration strategies (rehost, refactor, re-architect). You'll learn to develop comprehensive migration plans that minimize downtime, ensure data integrity, optimize Azure resource costs post-migration, and align with business objectives, preparing you to lead end-to-end cloud adoption projects.

Q: Does this course address strategies for minimizing downtime and ensuring business continuity during complex Azure migrations?

Absolutely. A significant focus of this course is on designing and executing migrations with minimal disruption to business operations. You will learn techniques such as phased migrations, leveraging replication technologies for near-zero downtime cutovers, and implementing robust testing methodologies to validate migrated workloads before going live. The course also covers post-migration validation, monitoring, and strategies for establishing high availability and disaster recovery within Azure to ensure ongoing business continuity.

ABOUT COMPUTER PRIDE



East Africa's Premier IT Training Center

With over 15 years of excellence, Computer Pride delivers globally recognized certification programs from leading technology vendors. Located on Kenyatta Avenue in Nairobi's CBD, our state-of-the-art facilities and expert instructors have empowered thousands of professionals across East Africa.

15+

Years of Excellence

10,000+

Professionals Trained

50+

Vendor Certifications

READY TO ENROL?

Take the next step in your technology career.

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