



**REAL WORLD**  
TECHNOLOGY TRAINING & SOLUTIONS  
"Training You Can Really Use"

# WS-050T00: Migrating Application Workloads to Azure®

**Duration: 2 Days**

**Method: Instructor-Led Training (ILT) | Live Online Training**

## Course Description

This course teaches IT Professionals how to migrate existing on-premises workloads and assets to the cloud, specifically to the Microsoft® Azure platform. Participants will learn how to assess and evaluate an existing on-premises environment in preparation for cloud migration. They will also learn how to monitor and optimize their Azure-based workloads to maximize return on investment (ROI) and use Azure services to protect and manage your virtual machines, applications, and data.

## Target Audience

This course is intended for:

- IT Administrators and staff who need to plan, implement and manage migrations of on-premises resources to Azure, or to replicate Azure virtual machines to other Azure locations.

## Prerequisites

To attend this course, candidates must have:

- Experience in operating systems, virtualization, cloud infrastructure, storage structures, and networking.
- Experience or equivalent knowledge in administering an IaaS Azure infrastructure.
- Understanding of on-premises virtualization technologies, including VMs, virtual networking, and virtual hard disks.
- Understanding of network configuration, including TCP/IP, Domain Name System (DNS), virtual private networks (VPNs), firewalls, and encryption technologies.
- Understanding of Active Directory® concepts, including domains, forests, domain controllers, replication, Kerberos protocol, and Lightweight Directory Access Protocol (LDAP).



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## Prerequisites *Continued*

- Understanding of resilience and disaster recovery, including backup and restore operations.
- Familiarity with using Azure, including the Azure portal, Cloud Shell, Azure PowerShell®, CLI and ARM template.
- Understanding of Azure Active Directory and cloud identity management.
- Understanding of management of subscriptions, users, groups, and billing, and Azure policies.

## Course Objectives

Upon successful completion of this course, attendees will be able to:

- Identify the tools and services specific to each phase of the migration.
- Discover and assess on-premises workloads for migration to Azure.
- Obtain deeper profiling of an environment using app dependency mapping and assessment customizations.
- Perform an end-to-end migration of on-premises workloads to Azure using Azure Migrate.
- Replicate data from an on-premises data center to Azure or a secondary site.
- Migrate data from existing data sources to Azure data platforms using the Database Migration Service.
- Secure and manage migrated workloads using Azure Security Center, Azure Backup, and Log Analytics.
- Ensure an effective business continuity strategy that includes high availability, disaster recovery.
- Back up and protect Azure IaaS virtual machines from any location using the Azure Backup Service.
- Define a recovery plan to ensure virtual machines failover properly before running a full failover.



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## Course Topics

### Module 1: Planning and Assessing and Azure Migration

- Cloud Migration – Business Motivations, Goals and Outcomes
- Discovery and Assessment

### Module 2: Introduction to Data Migration

- Azure Data Box
- Database Migration

### Module 3: Implementing Migration Using Azure Migrate Services

- Overview of Azure Migrate Server Migration
- VMware – Agentless Migration
- VMware – Agent-Based Migration
- Securing Migrated Workloads
- Data-Centre Migration Using Microsoft Migration Factory

### Module 4: Backup and Disaster Recovery in Azure

- Azure Backup Overview
- Implementing Azure IaaS Backup
- Azure to Azure Site Recovery
- Application Disaster Recovery

## LABS INCLUDED