



WS-050T00A: Migrating Application Workloads to Azure

Course Details

Course Code: WS-050T00A

Duration: 2 days

Notes:

- This course syllabus should be used to determine whether the course is appropriate for the students, based on their current skills and technical training needs.
- Course content, prices, and availability are subject to change without notice.
- Terms and Conditions apply

Elements of this syllabus are subject to change.

About this course

This workshop teaches IT Professionals how to migrate existing on-premises workloads and assets to the cloud, specifically to the Microsoft Azure platform. Students learn how to assess and evaluate an existing on-premises environment in preparation for a cloud migration. Students 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.

Audience Profile

This workshop is 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. They take business requests from workload owners to migrate workloads to the cloud in order to take advantage of the benefits that a cloud-enabled strategy provides over a traditional data center approach. This role requires communicating and coordinating with different individuals within an organization's IT department and business groups, as well as vendors.

At Course Completion

After completing this course, students will be able to:

- Identify the tools and services specific to each phase of the migration.
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- 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 datacenter to Azure or to 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 fail over properly before running a full failover.

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Module 1: Planning and Assessing and Azure Migration

In this module, you'll learn about the key business and technical drivers leading to a cloud migration, the phases of an Azure migration and tools and services used for each phase. You will learn how to discover and assess your on-premises environments in preparation to migrate the appropriate workloads to Azure.

Lessons

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

Lab : Discover and Assess On-Premises Resources for Migration

Module 2: Introduction to Data Migration

In this module, you'll learn about solutions you can use when you need to securely send terabytes of data to Azure. You will learn about the Azure Data Box family of products with both online and offline transfer options. You will then learn about migrating an on-premises SQL Server 2008R2 database to Azure SQL Database Managed Instance (MI), using the Azure Database Migration Service (DMS).

Lessons

- Azure Data Box
- Database Migration

Lab : Migrate On-Premises SQL Server Database to Azure SQL Managed Instance

Module 3: Implementing Migration using Azure Migrate Services

In this module, you'll learn how to prepare the on-premises infrastructure and the Azure components ahead of the planned migration. You'll also learn how to perform and end to end migration using Azure Migrate Services.

Lessons

- Overview of Azure Migrate Server Migration
- VMware - Agentless Migration
- VMware - Agent-based Migration
- Securing Migrated Workloads
- Datacenter Migration using Microsoft Migration Factory

Lab : Replicate Virtual Machines to Azure

Module 4: Backup and Disaster Recovery in Azure

In this module, you'll learn about the key components of a business continuity strategy and what is required for a highly available solution. You will also learn how to implement Azure IaaS virtual machine back up using the Azure Backup service. Additionally, you will learn how to replicate Azure VMs to any other Azure location using Azure Site Recovery.

Lessons

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