Course duration

- 2 days

Course Benefits

- Identify the tools and services specific to each phase of the migration.
- 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 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

Microsoft Certified Partner

Webucator is a Microsoft Certified Partner for Learning Solutions (CPLS). This class uses official Microsoft courseware and will be delivered by a Microsoft Certified Trainer (MCT).

Course Outline

1. Planning and Assessing and Azure Migration
   1. Cloud Migration – Business Motivations, Goals and Outcomes
   2. Discovery and Assessment
   3. Lab: Discover and Assess On-Premises Resources for Migration
2. Introduction to Data Migration
   1. Azure Data Box
   2. Database Migration
   3. Migrate On-Premises SQL Server Database to Azure SQL Managed Instance

3. Implementing Migration using Azure Migrate Services
    1. Overview of Azure Migrate Server Migration
    2. VMware - Agentless Migration
    3. VMware - Agent-based Migration
    4. Securing Migrated Workloads
    5. Datacenter Migration using Microsoft Migration Factory
    6. Lab: Replicate Virtual Machines to Azure
4. Backup and Disaster Recovery in Azure
    1. Azure Backup Overview
    2. Implementing Azure IaaS Backup
    3. Azure to Azure Site Recovery
    4. Application Disaster Recovery

Class Materials

Each student will receive a comprehensive set of materials, including course notes and all the class examples.

Class Prerequisites

Experience in the following *is required* for this Azure class:

- Experience on operating systems, virtualization, cloud infrastructure, storage structures, and networking. In addition, IT administrators should have 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).
- 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.