



10979: Introduction to Microsoft® Azure® for IT Professionals

Duration: 2 Days

Method: Instructor-Led Training (ILT)

Certification: Microsoft Certified Azure Fundamentals — Exam: AZ-900 Microsoft Azure Fundamentals

Course Description

This course provides the underlying knowledge required by IT professionals who will be evaluating Microsoft Azure, whether they are administrators, developers, or database administrators. It introduces attendees to the principles of cloud computing and allows them to become familiar with how these principles have been implemented in Microsoft Azure. In addition, this course explains how to implement the core Azure infrastructure, consisting of virtual networks and storage. With this foundation, attendees will be able to create the most common Azure services, including Azure Virtual Machines, Web Apps, and Azure SQL Database. They will also learn about container-based Azure services and the most prominent examples of serverless computing. The course concludes by describing features of Azure Active Directory® (Azure AD).

Target Audience

This course is intended for:

- Developers who want to evaluate creating Azure solutions.
- Windows Server administrators who want to evaluate the migration of on-premises Active Directory roles and services to the cloud.
- IT professionals who want to evaluate the use of Azure to host websites and mobile app back-end services.
- Database administrators who want to evaluate the use of Azure to host SQL databases.

Prerequisites

To attend this course, participants must have IT professional experience as well as the following technical knowledge:

- An Understanding Of:
 - How to Deploy Websites
 - Virtualization
 - Active Directory Concepts, including Domains, Users, and Domain Controllers
 - Database Concepts, including Tables and Simple Queries.



Course Objectives

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

- Describe cloud computing, Azure, and Azure subscriptions.
- Use Azure PowerShell, the Azure Software Development Kit (SDK), and the Azure command-line interface (CLI) to manage Azure subscriptions.
- Create and configure virtual machines in Azure, and manage their disks.
- Create, configure, and monitor web apps in Azure and deploy Azure platform as a service (PaaS) cloud services.
- Create and configure Azure virtual networks.
- Create, manage, and configure cloud storage in Azure.
- Use Azure SQL Database to create, configure, and manage SQL databases.
- Create and manage Azure AD.

Course Topics

Module 1: Getting Started with Microsoft Azure

- What is Cloud Computing?
- What is Azure?
- Managing Azure
- Subscription Management, Support, and Billing

Module 2: Microsoft Azure Management Tools

- What is Azure PowerShell?
- Azure SDK and Azure CLI

Module 3: Virtual Machines in Microsoft Azure

- Creating and Configuring Azure VMs
- Configuring Azure VM Storage
- Create and Configure VMs in Azure.
- Configure VM Availability.
- Configure Disks for VMs.

Module 4: Azure Web Apps

- Creating and Configuring Azure Web Apps
- Deploying and Monitoring Azure Web Apps

Module 5: Implementing Azure Networking

- Getting Started with Azure Networking
- Getting Started with Azure Load Balancer



Course Topics *Continued*

Module 6: Introduction Azure Storage and Data Services

- Understanding Azure Storage Options
- Creating and Managing Storage
- Understanding Options for Relational Database Deployments
- Creating and Connecting to Azure SQL Databases
- Create and Manage Azure Storage.
- Describe Options for Relational Database Deployment in Microsoft Azure.
- Create, Connect To, and Manage the Content of Microsoft Azure SQL Database Instances.

Module 7: Introduction to Containers and Serverless Computing in Azure

- Implementing Windows and Linux Containers in Azure
- Introduction to Azure Serverless Computing

Module 8: Configuring and Managing Azure AD

- Overview of Azure AD
- Manage Azure AD Authentication and Authorization

LABS INCLUDED

