



10979 Microsoft Azure Fundamentals

During this course, students will be introduced to the principles of cloud computing and will become familiar with how these principles have been implemented in Microsoft Azure.

Length Days: 2

PREREQUISITES

Before attending this course, students must have:

- 1) A basic understanding of websites;
- 2) A basic understanding of Active Directory concepts including: Domains, Users, Domain Controllers;
- 3) A basic understanding of database concepts including tables and simple queries.

TARGET AUDIENCE

This course is intended for individuals who want to evaluate deploying, configuring, and administering services and VMs using Azure, including:

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

COURSE OBJECTIVES

After completing this course, students will be able to:

- Describe cloud computing, Azure, and Azure subscriptions.
- Describe and create Azure Web Apps.
- Create and configure VMs in Microsoft Azure.
- Create an Azure virtual network.
- Describe Azure storage.
- Describe and deploy databases in Azure.
- Describe Azure AD.

COURSE OUTLINE

1 - GETTING STARTED WITH MICROSOFT AZURE

- What is cloud computing?
- What is Azure?
- Managing Azure
- Subscription management, support, and billing
- Lab : Using the Azure portals

2 - MICROSOFT AZURE MANAGEMENT TOOLS

- What is Azure PowerShell
- The Azure SDK and the Azure CLI
- Lab : Using Microsoft Azure management tools

3 - VIRTUAL MACHINES IN MICROSOFT AZURE

- Creating and configuring VMs
- Configure disks
- Lab : Creating a VM in Azure

4 - WEB APPS AND CLOUD SERVICES

- Creating and configuring web apps
- Deploying and monitoring web apps
- Creating and deploying PaaS cloud services
- Lab : Web Apps and cloud services

5 - CREATING AND CONFIGURING VIRTUAL NETWORKS

- Getting started with virtual networks
- Creating a virtual network
- Getting started with Azure Load Balancers
- Lab : Create a virtual network

6 - CLOUD STORAGE

- Understanding cloud storage
- Create and manage storage
- Lab : Configure Azure Storage

7 - MICROSOFT AZURE DATABASES

- Understanding options for relational database deployment
- Creating and connecting to Azure SQL databases
- Lab : Creating a SQL Database in Azure

8 - CREATING AND MANAGING AZURE AD

- Overview of Azure AD
- Manage Azure AD authentication
- Lab : Create users in Azure Active Directory tenants