



Course 10979 • Microsoft Azure

# MOC Workshop: Microsoft Azure Fundamentals

## Length

- 2 days

## Audience

- This course provides the underlying knowledge required by all individuals who will be evaluating Microsoft Azure, regardless of whether they are an administrator, developer, or database administrator
- This course also provides the prerequisite knowledge for students wishing to attend course 20532C Developing Microsoft Azure Solutions, or course 20533C Implementing Microsoft Azure Infrastructure Solutions

## What You'll Learn

- 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

In this 2-day, instructor-led workshop, students will be introduced to the principles of cloud computing and will become familiar how these principles have been implemented in Microsoft Azure. In addition, this workshop will take students through the process of implementing the core Azure infrastructure, consisting of virtual networks and storage. With this foundation, students will learn how to create the most common Azure services, including Azure virtual machines (VMs), Web Apps, and SQL Databases. The Workshop will conclude by describing features of Azure Active Directory (Azure AD) and methods of integrating it with on-premises Active Directory.

## Workshop Outline

### Module 1: Getting Started with Microsoft Azure

- What Is Cloud Computing?
- What Is Azure?
- Managing Azure
- Subscription Management and Billing

### Module 2: Microsoft Azure management tools

- What is Azure PowerShell
- The Azure SDK and the Azure CLI

### Module 3: Virtual machines in Microsoft Azure

- Create and Configure Virtual Machines
- Configure Disks

#### **Module 4: Web Apps and cloud services**

- Creating and configuring web apps
- Deploying and monitoring web apps
- Creating and deploying PaaS cloud services

#### **Module 5: Creating and configuring virtual networks**

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

#### **Module 6: Cloud storage**

- Understanding cloud storage
- Create and manage storage

#### **Module 7: Microsoft Azure databases**

- Understanding options for relational database deployment
- Creating and connecting to Azure SQL databases

#### **Module 8: Creating and managing Azure AD**

- Overview of Azure AD
- Manage Azure AD authentication

#### **Labs**

- Using the Microsoft Azure Portal
- Using Microsoft Azure management tools
- Create a Virtual Machine in Microsoft Azure
- Web Apps and cloud services
- Create a virtual network
- Configure Azure Storage
- Creating a SQL Database in Azure
- Create users in Azure Active Directory tenants