

Microsoft Official Course



10979F

Introduction to Microsoft Azure for
IT Professionals

Welcome

Thank you for joining us today.

We've worked together with the Microsoft Partner Network and Microsoft IT Academies to bring you a world-class learning experience.

Microsoft Certified Trainers + Instructors. Your instructor is a premier technical and instructional expert who meets ongoing certification requirements.

Customer Satisfaction Guarantee.

Our partners offer a satisfaction guarantee and we hold them accountable for it.

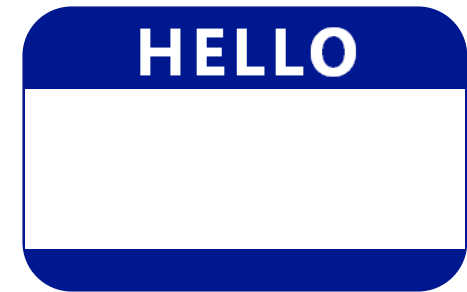
At the end of class, please complete an evaluation of today's experience. We value your feedback!

Certification Exam Benefits. After training, consider pursuing a Microsoft Certification to help distinguish your technical expertise and experience. Ask your instructor about available exam promotions and discounts.

We wish you a great learning experience and ongoing career success!

Hello! Instructor introduction

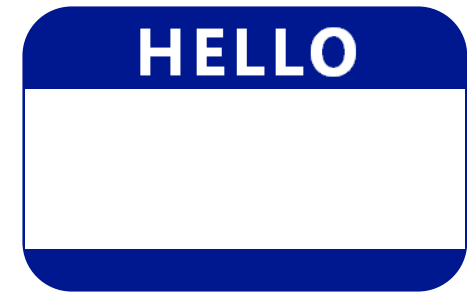
- **Instructor:** <Name>
- <Title or other credentials, e.g. Microsoft Certified Trainer>
- <Affiliation/Company>
- <A few words about my technical and professional experience>



Hello! Student introductions

Let's get acquainted:

- Your name
- Company affiliation
- Title/function
- Windows Server 2012 or Windows Server 2016 experience
- Microsoft Azure experience
- Your expectations for the course



Facilities

- Class hours
- Building hours
- Parking
- Restrooms
- Meals
- Phones
- Messages
- Smoking
- Internet access
- Recycling
- Emergency procedures



About this course: Audience

The intended audience of this course is individuals who want to evaluate deploying, configuring, and administering services and VMs by using Azure. This includes:

- Developers who want to evaluate the process for creating Azure solutions
- Windows Server administrators who are looking to evaluate migrating on-premises Active Directory roles and services to the cloud
- Information Technology (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

About this course: Prerequisites

Before attending this course, students must have a background in IT. In addition to their professional experience, students who attend this training should already have the following technical knowledge:

- Understanding of how to deploy websites
- A basic understanding of virtualization
- A basic understanding of Active Directory concepts, including domains, users, and domain controllers
- A basic understanding of database concepts, including tables and simple queries

About this course

After completing this course, students 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 and SQL databases in Azure
- Describe the options for implementing containers and serverless technologies in Azure
- Create and manage Azure AD

Your course materials

Microsoft Official Course Handbook (Digital)

- Access online using the Skillpipe reader by arvato, at <https://skillpipe.courseware-marketplace.com/en-GB/Account/Login>
- Register/sign in and redeem your digital courseware
- Easily add notes and comments, and highlight content
- Organized by module
- Includes Labs and Lab Answer Keys
- Module Reviews and Takeaways make great on-the-job references



Digital Companion Content

- Supplemental content and helpful links
- Download at: <https://aka.ms/Companion-MOC>

Course outline

Module 1

Getting started with Microsoft Azure

Module 2

Microsoft Azure management tools

Module 3

Virtual machines in Microsoft Azure

Module 4

Azure Web Apps

Module 5

Introduction to Azure networking

Course outline, continued

Module 6

Introduction to Azure Storage and Data Services

Module 7

Introduction to containers and serverless computing in Azure

Module 8

Configuring and managing Azure AD

Microsoft Certification Program

Get trained. Get certified.
Get ahead.

Microsoft Certifications demonstrate that you have the skills to design, deploy, and optimize the latest technology solutions.

Ask your Microsoft Learning Partner how you can prepare for certification.

For more information about Microsoft Certifications, go to:
<http://www.microsoft.com/learning/certification>

Microsoft Certified
Solutions Expert
(MCSE)

Microsoft Certified
Solutions Associate
(MCSA)



Preparing for the labs

- Your lab activities will center around a fictitious company called A. Datum Corporation. Through these activities you will learn how to:
 - Use the Azure portals
 - Use Azure management tools
 - Create a VM in Azure
 - Use Azure Web Apps
 - Create a virtual network
 - Configure Azure storage
 - Create a SQL database in Azure
 - Implement containers on Azure VMs
 - Create and manage Azure AD tenants
- You will work in a VM environment to complete the labs



VM environment

VM name	Use as
10979F-MIA-CL1	Windows 10 standalone client computer
MT17B-WS2016-NAT	Windows Server 2016 server that is used for activation and for internet access

Microsoft Learning Azure Pass

- We will use the Microsoft Learning Azure Pass to access Azure for demonstrations and labs
- Microsoft Learning Azure Pass access and configuration
- Best practices for Microsoft Learning Azure Pass usage:
 - Check the dollar balance of your Azure Pass within Azure once you have set up your subscription, and be aware of how much you are consuming as you proceed through the labs
 - Do not allow Azure components to run overnight or for extended periods unless you need to do so
 - Remove any Azure-created components or services such as storage, virtual machines, or cloud services after you finish your lab to help minimize cost usage and extend the life of your Microsoft Learning Azure pass

WARNING – You May Experience UI Discrepancies



Given the dynamic nature of Microsoft cloud tools, you may experience Microsoft Office 365 and/or Azure user interface (UI) changes that were made following courseware development and that do not match up with lab instructions.

The Microsoft Learning team will document these changes for instructors as they are brought to our attention. However, given the dynamic nature of cloud updates, you may run into changes before we become aware of them.

If this occurs, you will have to adapt to the changes and work through them in the labs as necessary.

Demonstration: Using Microsoft Labs Online (*OPTIONAL*)

In this demonstration, you will learn how to:

- Access the MLO lab environment
- Switch between VMs

Read the online Lab Notes carefully, because some procedures differ between on-premises labs and online labs. The Lab Notes will highlight any differences.

Demonstration: Using Hyper-V Manager (*OPTIONAL*)

In this demonstration, you will learn how to:

- Open Hyper-V Manager
- Navigate the various sections/panes within Hyper-V Manager:
 - VMs, snapshots, and actions (server-specific and VM-specific)
- Identify the VMs that you will use in the labs for this course
- Take a snapshot and apply a snapshot
- Connect to a VM
- Start and sign in to a VM
- Switch between full screen and window modes
- Revert to the previous snapshot
- Shut down a VM
 - Know when to shut down versus turn off a VM
- Close Hyper-V Manager