

## Integrating On-Premises Identity Infrastructure with Microsoft Azure (10993)

**Duration:** 2 Days

**Price:** \$895

**Delivery Option:** Attend via [MOC On-Demand](#)

### Students Will Learn

- Comparing Azure AD to AD DS, performing Azure AD tenant provisioning and managing objects and user roles in Azure AD
- Implementing and configuring directory synchronization and managing synchronized directories
- Using Azure AD as a directory service for an on-premises environment, configuring single sign-on (SSO) in Azure AD and protecting privileged identities
- Implementing multi-factor authentication
- Implementing Azure RMS and integrating Azure RMS with on-premises services
- Configuring alerts and monitoring directory services infrastructure

### Course Description

This is a Microsoft Official Course (MOC) and includes Microsoft courseware and hands-on labs. This course teaches IT professionals how to integrate their on-premises AD DS environment with Azure AD and how to use Azure AD as a directory service. It also teaches candidates how to use Azure RMS to protect sensitive documents. Additionally, it focuses on how to enhance authentication with multi-factor authentication and how to monitor directory synchronization health.

The primary audience for this course is existing IT professionals who have some knowledge and experience with Azure, and advanced experience with the Windows Server operating system. In addition, IT professionals who take this course typically want to develop knowledge of identity services integration between on-premises services and cloud services. This would typically include AD DS administrators who are looking to train in cloud identity and access technologies. This would also include System or infrastructure administrators with general AD DS experience and knowledge, who are looking for more advanced identity training for Azure services.

### Course Prerequisites

Before attending this course, students must have:

- Experience with AD DS concepts and technologies in Windows Server 2012 or Windows Server 2016
- Experience working with and configuring Windows Server 2012 or Windows Server 2016
- Basic experience with Windows PowerShell
- Basic experience with cloud services such as Microsoft Office 365
- Basic experience with the Azure platform
- Basic experience with identities on premises or in cloud

## About MOC On-Demand

Microsoft Official Courses On-Demand uses a combination of streaming video, text, lab exercises and assessment checks throughout the course. MOC On-Demand courses are available for 90 days and recommend the following system requirements:

- Browser: Current version of Internet Explorer, Microsoft Edge, Google Chrome or Firefox
- Internet: Broadband Internet connection of over 4Mbps
- Screen Resolution: 1280 x 1024 or higher

## Course Overview

### Module 1: Introducing Azure AD

This module describes the differences between Azure AD and AD DS, and the Azure AD versions. It also explains how to perform Azure AD tenant provisioning and how to manage objects and user roles in Azure AD.

#### Lessons

- Azure AD overview
- Implementing and configuring Azure AD
- Managing Azure AD

#### Labs

- Activating Azure and Office 365 trial subscriptions
- Configuring an Azure AD tenant and objects in Azure AD
- Configuring user roles in Azure AD

#### After completing this module, students will be able to:

- Describe Azure AD
- Implement and configure Azure AD
- Manage Azure AD

### Module 2: Integrating On-Premises Active Directory with Azure

This module explains how to extend an on-premises Active Directory domain to Azure, and how directory synchronization works. It also describes how to implement and configure directory synchronization. Additionally, this module describes how to manage synchronized directories.

## Lessons

- Extending an on-premises Active Directory domain to Azure
- Directory synchronization overview
- Implementing and configuring directory synchronization
- Managing synchronized directories

## Labs

- Implementing Azure AD Connect
- Managing directory synchronization

### After completing this module, students will be able to:

- Describe how to extend on-premises Active Directory to Azure
- Describe directory synchronization
- Implement and configure directory synchronization
- Manage synchronized directories

## Module 3: Using Azure AD as a Directory Service in Hybrid Environments

This module explains how to use Azure AD as a directory service for on-premises resources, and how to configure SSO in Azure AD. It also describes how to implement Azure AD Privileged Identity Management (PIM).

## Lessons

- Azure AD as a directory service for on-premises environments
- Configuring SSO with Azure AD
- Implementing Azure AD PIM

## Labs

- Joining a Windows 10 computer to Azure AD
- Implementing SSO with Azure AD
- Configuring and using Azure AD PIM

### After completing this module, students will be able to:

- Describe how to use Azure AD as a directory service for an on-premises resources
- Configure SSO in Azure AD
- Implement PIM with Azure AD

## Module 4: Configuring and Protecting Authentication in Hybrid Environments

This module explains how authentication works in hybrid environments. In addition, it describes how to implement Azure Multi-Factor Authentication.

## Lessons

- Authenticating users in hybrid environments
- Implementing multi-factor authentication

## Labs

- Implementing user password reset policy
- Implementing Multi-Factor Authentication
- Implementing Multi-Factor Authentication Server on premises

**After completing this module, students will be able to:**

- Describe how authentication works in hybrid environments
- Implement multi-factor authentication

## **Module 5: Deploying Azure Information Protection with On-Premises Services**

This module provides an overview of rights management, and describes the differences between Active Directory Rights Management Services (AD RMS) and Azure RMS. It also explains how to implement Azure Information Protection and Azure RMS and integrate these services with on-premises services.

### **Lessons**

- RMS overview
- Implementing Azure RMS
- Integrating Azure RMS with on-premises services

### **Labs**

- Enabling and configuring Azure Information Protection
- Integrating Azure Information Protection with FCI
- Using the RMS sharing application on a client

**After completing this module, students will be able to:**

- Describe data protection technologies-based Microsoft Rights Management services (RMS).
- Implement Azure Information Protection.
- Integrate Azure Information Protection with on-premises services.

## **Module 6: Monitoring Azure AD**

This module describes how to use Azure AD reporting, and how to configure Azure AD notifications. It also describes how to monitor AD DS and Azure AD by using Azure AD Connect Health and Microsoft Operations Management Suite (OMS).

### **Lessons**

- Azure AD reporting
- Monitoring Azure AD

### **Labs**

- Configuring Azure AD reports and notifications
- Configuring Azure AD monitoring

**After completing this module, students will be able to:**

- Describe and use Azure AD reporting
- Monitor Azure AD

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