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# MOC 10993 B: Integrating On-Premises Identity Infrastructure with Microsoft Azure

## Course Summary

### Description

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 focusses on how to enhance authentication with multi-factor authentication and how to monitor directory synchronization health.

### Objectives

At the end of this course, students will be able to:

- Compare Azure AD to AD DS, perform Azure AD tenant provisioning, and manage objects and user roles in Azure AD.
- Implement and configure directory synchronization and manage synchronized directories.
- Use Azure AD as a directory service for an on-premises environment, configure single sign-on (SSO) in Azure AD, and protect privileged identities.
- Implement multi-factor authentication.
- Implement Azure RMS and integrate Azure RMS with on-premises services.
- Configure alerts and monitor directory services infrastructure.

### Topics

- Introducing Azure AD
- Integrating on-premises AD DS with Azure
- Using Azure AD as a directory service in hybrid environments
- Configuring and protecting authentication in hybrid environments
- Deploying Azure RMS with on-premises services
- Monitoring Azure AD

### Audience

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.
- System or infrastructure administrators with general AD DS experience and knowledge, who are looking for more advanced identity training for Azure services.

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## Course Summary (cont'd)

**Prerequisites**

In addition to their professional experience, students who attend this training should already have the following technical knowledge:

- 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.

**Duration**

Two days

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# MOC 10993 A: Integrating On-Premises Identity Infrastructure with Microsoft Azure

## Course Outline

**I. 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.

A. Azure AD overview
B. Implementing and configuring Azure AD
C. Managing Azure AD

**Lab : Creating and managing an Azure AD tenant**

- Activating an Azure trial subscription
- Creating an Azure AD tenant and objects in Azure AD
- Configuring user roles in Azure AD

**II. Integrating on-premises AD DS 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.

A. Extending an on-premises Active Directory domain to Azure
B. Directory synchronization overview
C. Implementing and configuring directory synchronization
D. Managing synchronized directories

**Lab : Implementing directory synchronization**

- Implementing Azure AD Connect
- Managing directory synchronization

**III. Using Azure AD as a directory service in hybrid environments**

This module explains how to use Azure AD as a directory service for an on-premises environment, and how to configure SSO in Azure AD. Also it describes how to implement privileged identity management in Azure AD.

A. Azure AD as a directory service for on-premises environments
B. Configuring SSO with Azure AD
C. Implementing privileged identity management in Azure AD

**Lab : Using Azure AD in hybrid environments**

- Joining a Windows 10 computer to Azure AD
- Implementing SSO with Azure AD
- Configuring and using Azure AD Privileged Identity Management

**IV. 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.

A. Authentication in hybrid environments
B. Implementing Azure Multi-Factor Authentication

**Lab : Configuring authentication in hybrid environments**

- Implementing self-service password reset
- Implementing Azure Multi-Factor Authentication
- Implementing Azure Multi-Factor Authentication Server on-premises

**V. Deploying Azure RMS with on-premises services**

This module explains how rights management technologies, Active Directory RMS, and Azure RMS work. In addition, it describes how to implement Azure RMS, and how to integrate Azure RMS with on-premises services.

A. RMS overview
B. Implementing Azure RMS
C. Integrating Azure RMS with on-premises services

**Lab : Implementing Azure RMS**

- Enabling and configuring Azure RMS
- Integrating Azure RMS with File Classification Infrastructure (FCI)
- Using the RMS sharing application on a client

**VI. Monitoring Azure AD**

This module describes reports on Azure AD and explains how to configure alerts. It also describes how to monitor directory services infrastructure.

A. Azure AD reporting
B. Monitoring Azure AD

**Lab : Configuring reporting and monitoring**

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