

Integrating On-Premises Identity Infrastructure with Microsoft Azure

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.

Détails

- **Code :** Azure-IOP11
- **Durée :** 2 jours (14 heures)

Public

- Administrateurs
- Administrateurs de bases de données
- Consultants
- Consultants informatiques
- Ingénieurs

Pré-requis

- Experience with AD DS concepts and technologies, in Windows Server 2012 or Windows Server 2016.

Basic experience with:
Windows PowerShell.
Cloud services such as Microsoft Office 365.
Azure platform.
Identities on premises or in cloud.

Objectifs

- 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 & Azure RMS and integrate Azure RMS with on-premises services.
- Configure alerts and monitor directory services infrastructure.

Programme

Module 1: Introducing Azure AD

- **Description**
 - 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
- **Lab**
 - Creating and managing an Azure AD tenant
 - 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

Azure

- **Description**
 - 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
- **Lab**
 - Implementing directory synchronization
 - 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

Module 2: Integrating on-premises Active Directory with

- Implement and configure directory synchronization
- Manage synchronized directories

Module 3: Using Azure AD as a directory service in hybrid environments

- Description
 - 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
- 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 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

- Description
 - 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
- Lab
 - Configuring authentication in hybrid environments
 - 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 RMS with on-premises services

- Description
 - 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 RMS and integrate it with on-premises services
- Lessons
 - RMS overview
 - Implementing Azure RMS
 - Integrating Azure RMS with on-premises services
- Lab
 - Implementing Azure RMS
 - Enabling and configuring Azure RMS
 - Integrating Azure RMS with FCI
 - Using the RMS sharing application on a client
- After completing this module, students will be able to:
 - Describe Microsoft Rights Management services (RMS)
 - Implement Azure RMS
 - Integrate Azure RMS with on-premises services

Module 6: Monitoring Azure AD

- Description
 - 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
- Lab
 - Configuring reporting and monitoring
 - 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

Modalités

- **Type d'action** :Acquisition des connaissances
- **Moyens de la formation** :Formation présentielle – 1 poste par stagiaire – 1 vidéo projecteur – Support de cours fourni à chaque stagiaire
- **Modalités pédagogiques** :Exposés – Cas pratiques – Synthèse
- **Validation** :Exercices de validation – Attestation de stages