

## 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