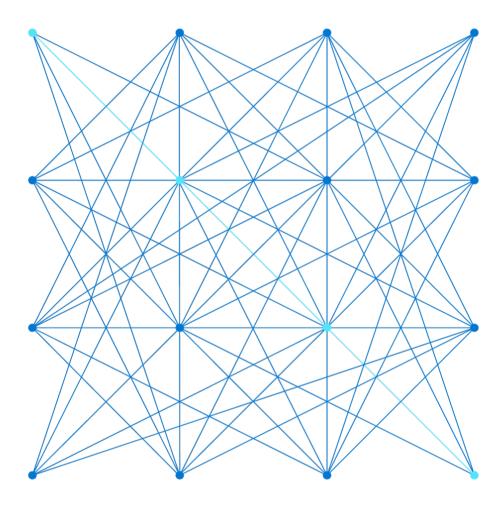


# AZ-104T00A Module 01: Identity



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## **Module Overview**



Lesson 01: Azure Active Directory

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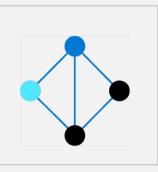
Lesson 02: Users and Groups

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Lesson 03: Module 01 Lab and Review

## **Lesson 01: Azure Active Directory**



# Azure Active Directory Overview



**Azure Active Directory** 



**Azure AD Concepts** 



AD DS vs. Azure Active Directory



**Azure Active Directory Editions** 



Azure AD Join

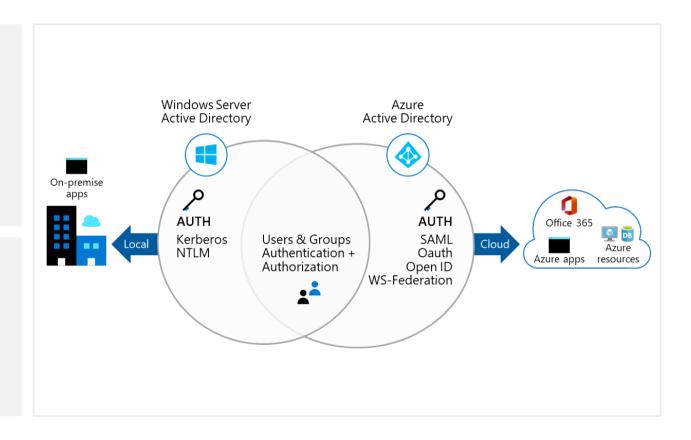


Self-Service Password Reset

## **Azure Active Directory**

A cloud-based suite of identity management capabilities that enables you to securely manage access to Azure services and resources for your users

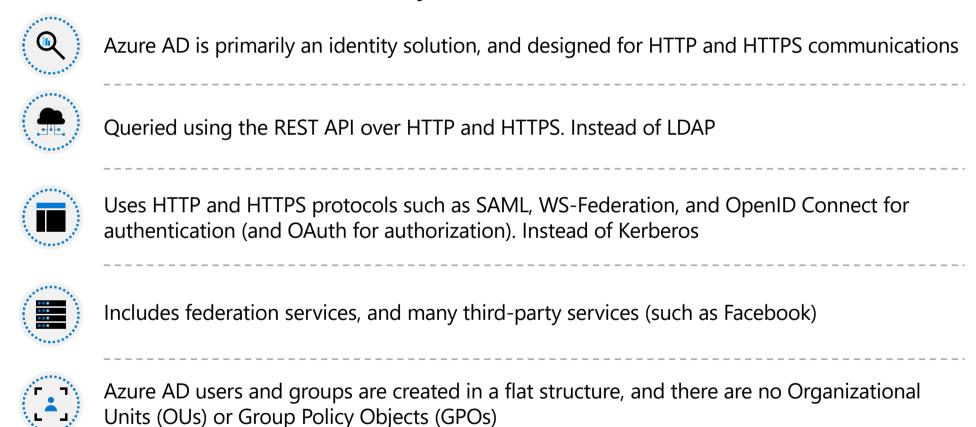
Provides application management, authentication, device management, and hybrid identity



## **Azure AD Concepts**

Concept	Description
Identity	An object that can be authenticated
Account	An identity that has data associated with it
Azure AD account	An identity created through Azure AD or another Microsoft cloud service
Azure AD tenant/directory	<ul> <li>A dedicated and trusted instance of Azure AD, a Tenant is automatically created when your organization signs up for a Microsoft cloud service subscription</li> <li>Additional instances of Azure AD can be created</li> <li>Azure AD is the underlying product providing the identity service</li> <li>The term <i>Tenant</i> means a single instance of Azure AD representing a single organization</li> <li>The terms <i>Tenant</i> and <i>Directory</i> are often used interchangeably</li> </ul>
Azure subscription	Used to pay for Azure cloud services

## **AD DS vs Azure Active Directory**



## **Azure Active Directory Editions**

Feature	Free	Microsoft 365 Apps	Premium P1	Premium P2
<b>Directory Objects</b>	500,000 objects	No object limit	No object limit	No object limit
Single Sign-On	Unlimited	Unlimited	Unlimited	Unlimited
Core Identity and Access	X	X	X	X
B2B Collaboration	X	X	X	X
Identity & Access for O365		X	X	X
Premium Features			Х	Х
Hybrid Identities			X	X
Advanced Group Access			X	X
<b>Conditional Access</b>			X	X
<b>Identity Protection</b>				X
<b>Identity Governance</b>				X

#### **Azure AD Join**

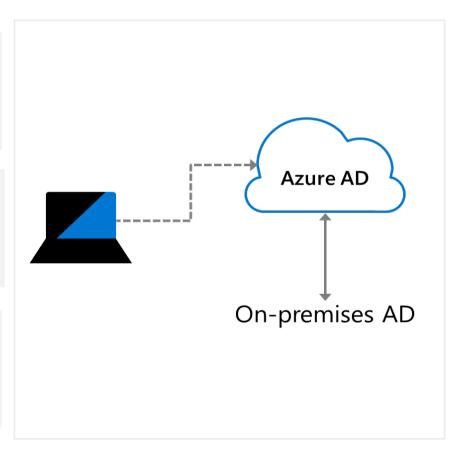
Single-Sign-On to your Azure managed SaaS apps and services Enterprise state roaming of user settings across joined devices

Access to Microsoft Store for Business

Windows Hello support

Restriction of access to apps from only compliant devices

Seamless access to on-premises resources

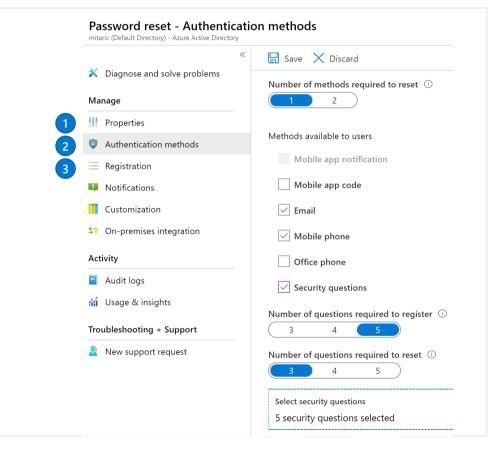


#### **Self-Service Password Reset**

1. Determine who can use self-service password reset

2. Choose the number of authentication methods required and the methods available (email, phone, questions)

3. You can require users to register for SSPR (same process as MFA)



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## Lesson 02: Users and groups



# Users and Groups Overview



**User Accounts** 



**Managing User Accounts** 



**Bulk User Accounts** 



**Group Accounts** 

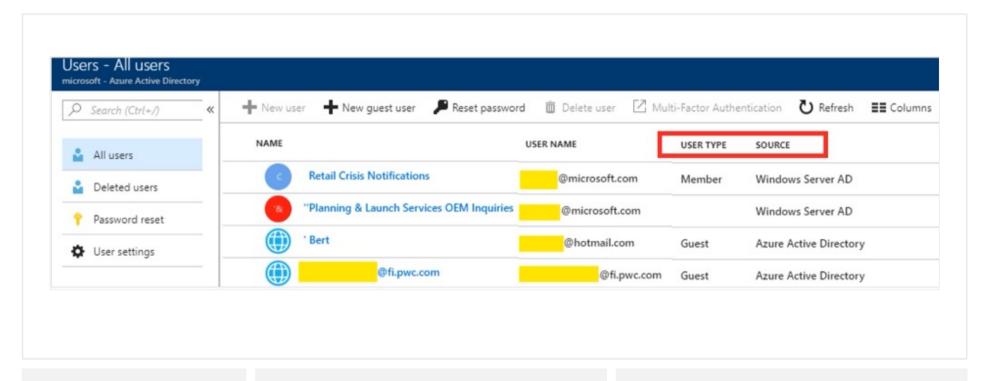


Managing Multiple Directories



Demonstration – Users and Groups

## **User Accounts**

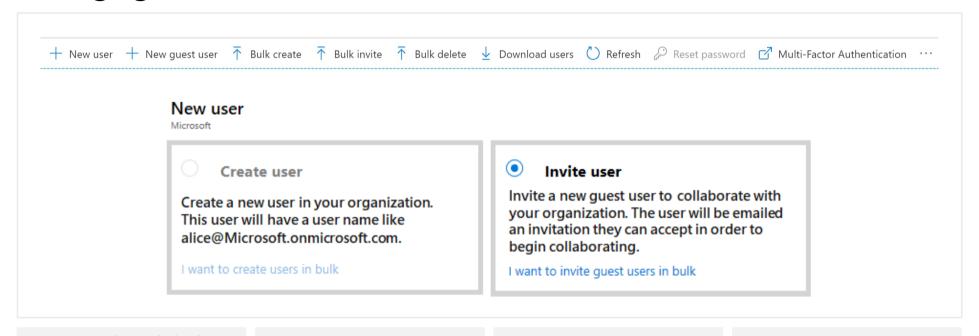


All users must have an account

The account is used for authentication and authorization

Identity Sources: Cloud, Directory-synchronized, and Guest

## **Managing User Accounts**



Must be Global Administrator or User Administrator to manage users

User profile (picture, job, contact info) is optional

Deleted users can be restored for 30 days

Sign in and audit log information is available

## **Bulk User Accounts**

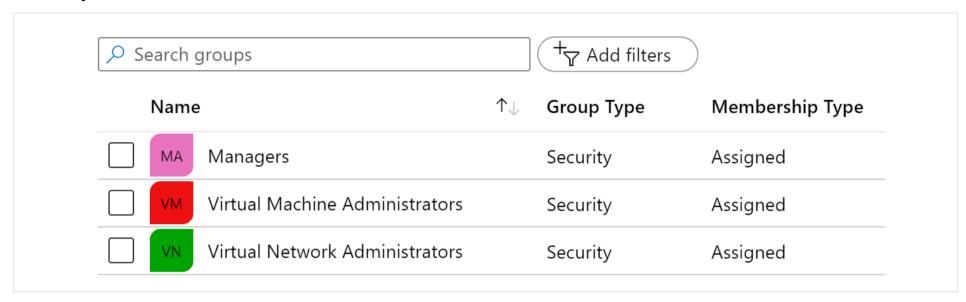


Create the comma-separated values (CSV) file with the list of all the users and their properties

Loop through the file processing each user

Consider error handling, duplicate users, initial password settings, empty properties, and when the account is enabled

## **Group Accounts**



## **Group Types**

- Security groups
- Microsoft 365 groups

## **Assignment Types**

- Assigned
- Dynamic User
- Dynamic Device (Security groups only)

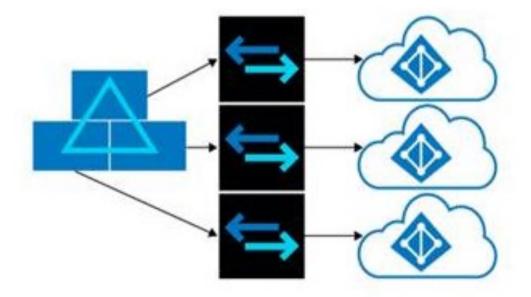
## **Managing Multiple Directories**

Each Azure AD organization is fully independent: a peer that is logically independent from the other Azure AD organizations you manage

There is no parent-child relationship between organizations

#### Independence includes:

- Resource independence
- Administration independence
- Synchronization independence



## Lesson 03: Module 01 Lab and Review



## Lab 01 – Manage Azure Active Directory identities

#### Lab scenario

In order to allow Contoso users to authenticate by using Azure AD, you have been tasked with provisioning users and group accounts. Membership of the groups should be updated automatically based on the user job titles. You also need to create a test Azure AD tenant with a test user account and grant that account limited permissions to resources in the Contoso Azure subscription.

#### **Objectives**

#### Task 1:

Create and configure Azure AD users

#### Task 2:

Create Azure AD groups with assigned and dynamic membership

#### Task 3:

Create an Azure Active Directory (AD) tenant

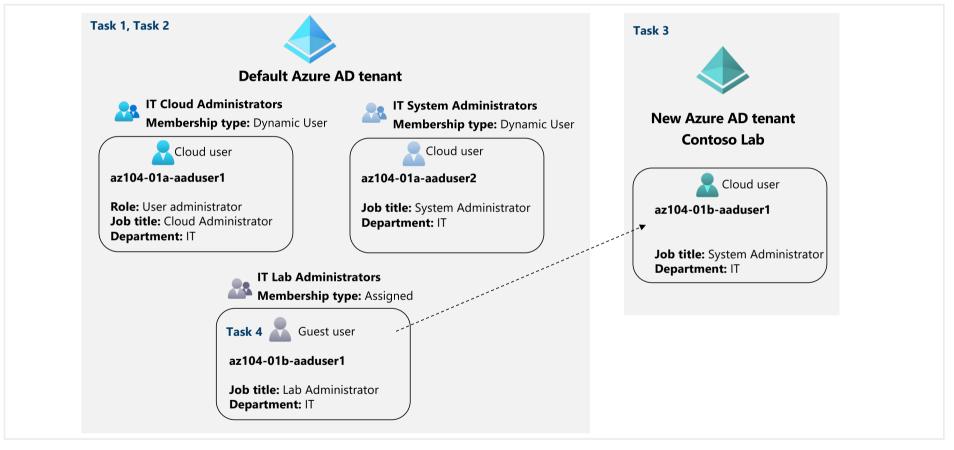
#### Task 4:

Manage Azure AD guest users

Next slide for an architecture diagram  $\ominus$ 



## Lab 01 – Architecture diagram



#### **Module Review**

#### **Module Review Questions**



## Microsoft Learn Modules (docs.microsoft.com/Learn)

Create Azure users and groups in Azure Active Directory

Manage users and groups in Azure Active Directory

Secure Azure Active Directory users with Multi-Factor Authentication

Allow users to reset their password with Azure Active Directory self-service password reset

Secure your application by using OpenID Connect and Azure AD

# **End of presentation**