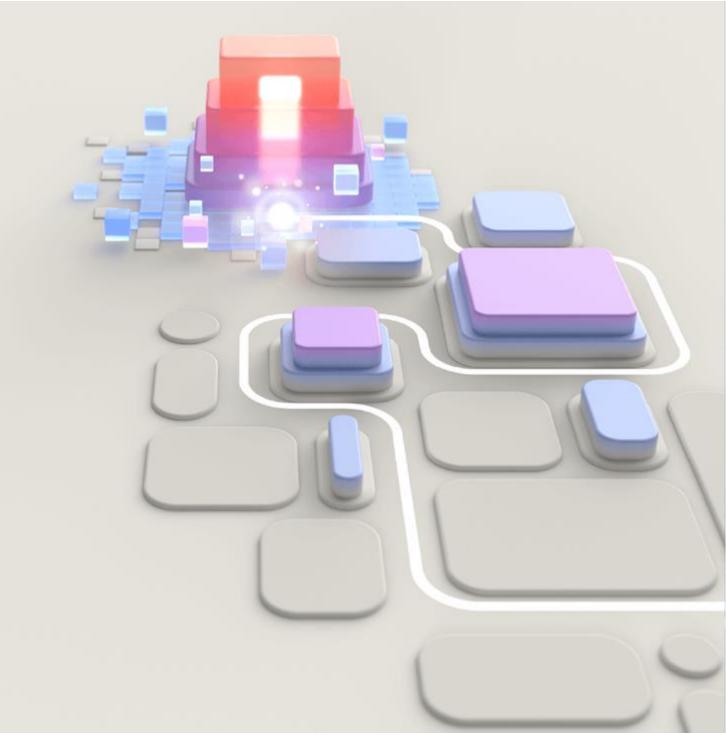


AZ-104

Administer Identity



#### **Course Outline**



01: Administer Identity





02: Administer Governance and Compliance



07: Administer Azure Storage



**i**...

08: Administer Azure Virtual Machines



03: Administer Azure Resources



09: Administer PaaS Compute Options



04: Administer Virtual Networking



10: Administer Data Protection



05: Administer Intersite Connectivity



11: Administer Monitoring



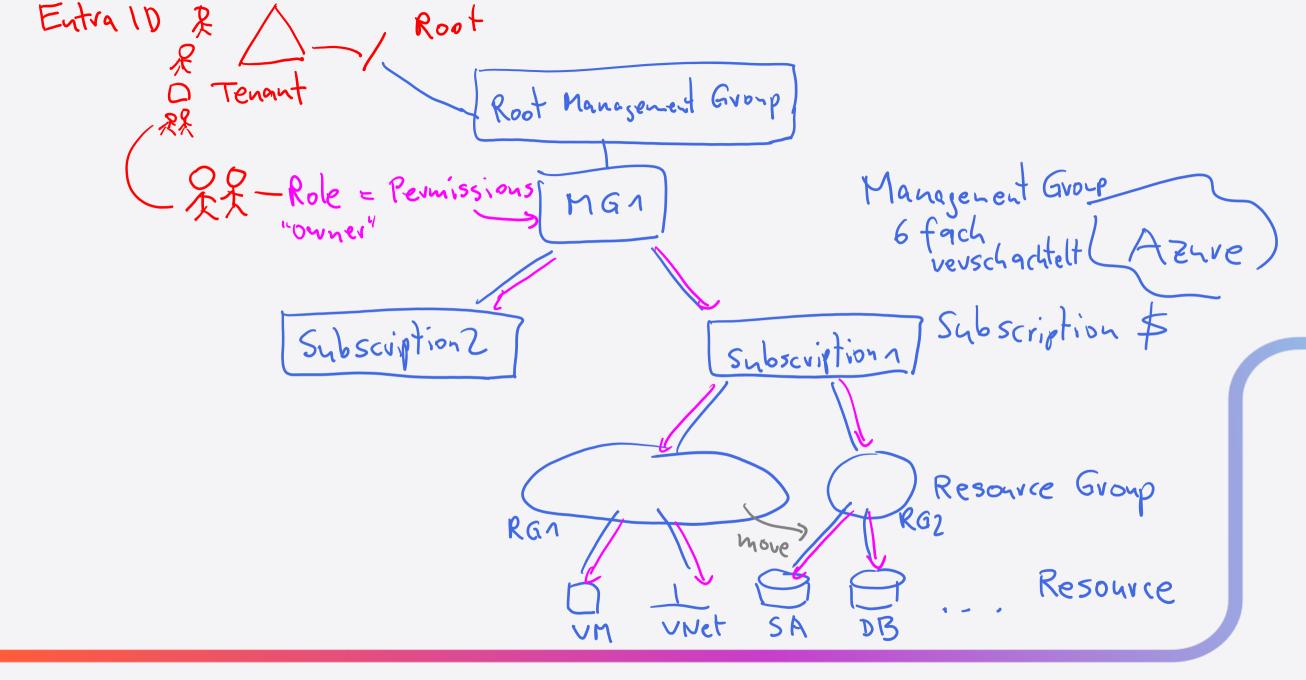
06: Administer Network Traffic Management

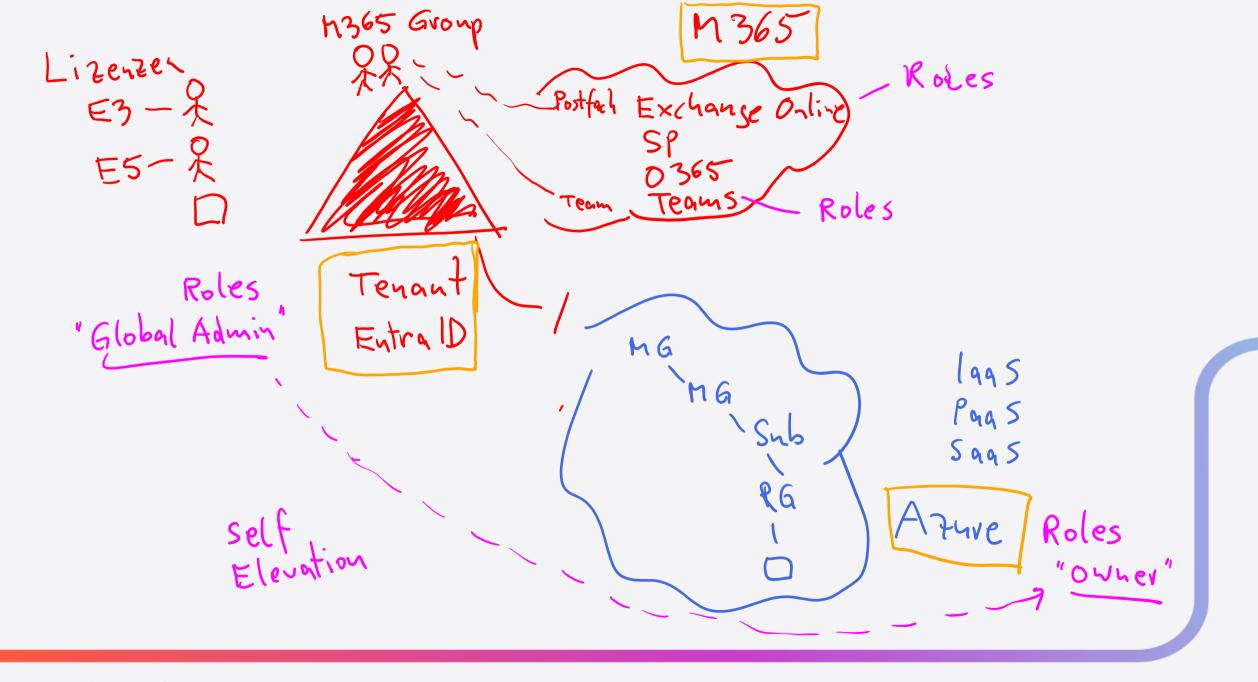
## **Learning Objectives**

- Configure Microsoft Entra ID
- Configure User and Group Accounts
- Lab 01 Manage Microsoft Entra ID Identities

Tenant

Devices



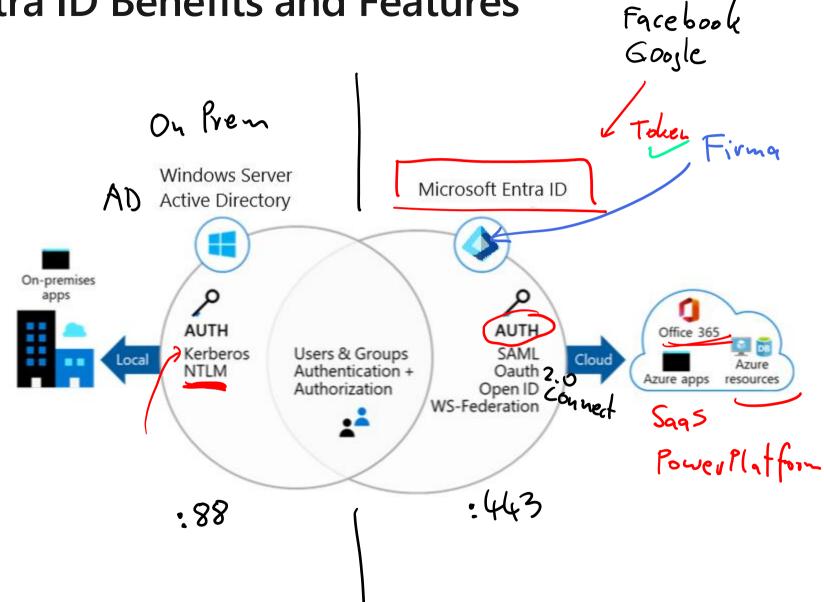




#### Describe Microsoft Entra ID Benefits and Features

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



AWS

GCP

## **Describe Microsoft Entra ID Concepts**

Concept	Description
Identity	An object that can be authenticated
Account	An identity that has data associated with it
Microsoft Entra ID account	An identity created through Microsoft Entra ID or another Microsoft cloud service
Tenant/directory	<ul> <li>A dedicated and trusted instance. A tenant is automatically created when your organization signs up for a Microsoft cloud service subscription.</li> <li>Additional instances can be created</li> <li>Microsoft Entra ID is the underlying product providing the identity service</li> <li>The term <i>Tenant</i> means a single instance 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

<sup>©</sup> Copyright Microsoft Corporation. All rights reserved.

## Compare Microsoft Entra ID to Active Directory Domain Services



Microsoft Entra ID is primarily an identity solution



Queried using the REST API over HTTP and HTTPS



Uses HTTP and HTTPS protocols such as SAML, WS-Federation, and OpenID Connect for authentication (and OAuth for authorization)



Includes federation services, and many third-party services (such as Facebook)



Microsoft Entra ID users and groups are created in a flat structure, and there are no Organizational Units (OUs) or Group Policy Objects (GPOs)

SKU Stock Keeping Unit

Select Microsoft Entra Plans & Pricing (examples)

Feature	Free	P1	P2	Governance
Single Sign-On (unlimited)	$\checkmark$	<b>✓</b>	<b>✓</b>	
Cloud and Federated authentication	✓	✓	✓	
Advanced group management		✓	✓	
Self-service account management portal	✓	✓	✓	
Multifactor authentication (MFA)	✓	✓	✓	
Conditional access		$\checkmark$	<b>√</b>	
Risk-based Conditional Access (sign-in risk, user risk)		_		
Automated user and group provisioning to apps		<b>√</b>	<b>√</b>	✓
Privileged identity management (PIM)		_	✓	✓

## **Configure Device Identities (optional)**

#### Registered devices Joined devices Hybrid joined devices • You have Win32 apps deployed to Supports Bring Your Own Device Intended for cloud-first or cloudthese devices only organizations • Registered devices sign-in using a Microsoft account Organization-owned devices You want to continue to use Group Policy to manage the device Attached to an account granting Joined only to Azure access to resources organizational account required

Can use Conditional Access policies

• OS – Windows 10+, iOS, Android, and MacOS

Management (MDM) tools like

Control using Mobile Device

Microsoft Intune

OS – Windows 10+ devices

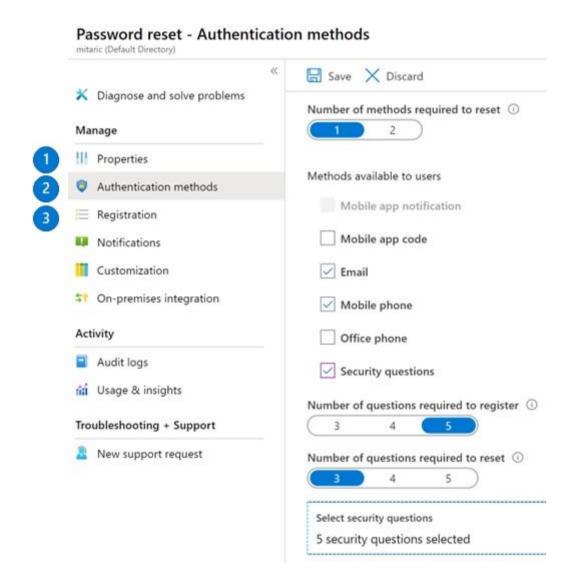
- You want to use existing image solutions to deploy devices
- OS Windows 7+ devices

#### Implement 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)

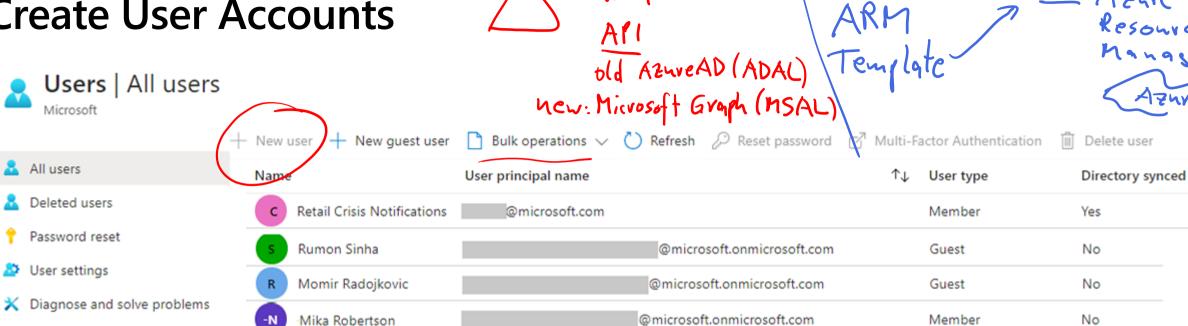
3. You can require users to register for SSPR (same process as MFA)



# Configure User and Group Accounts



#### **Create User Accounts**

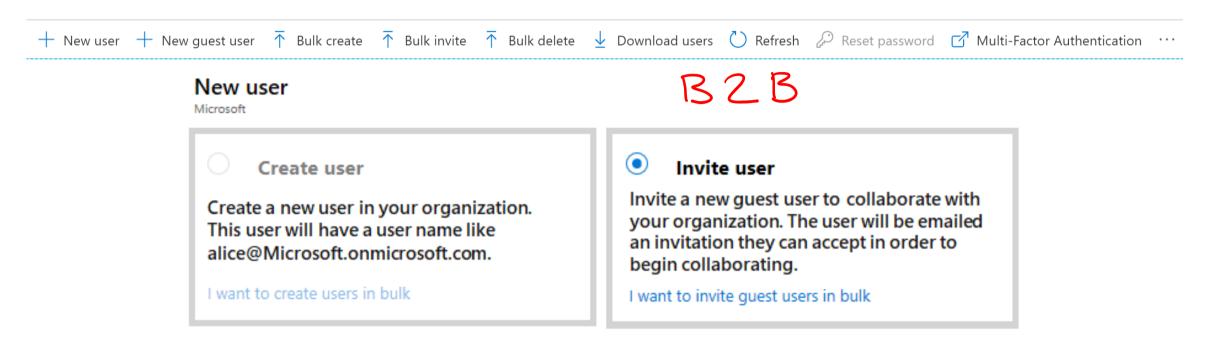


All users must have an account

The account is used for authentication and authorization Each user account has additional properties



#### Manage User Accounts



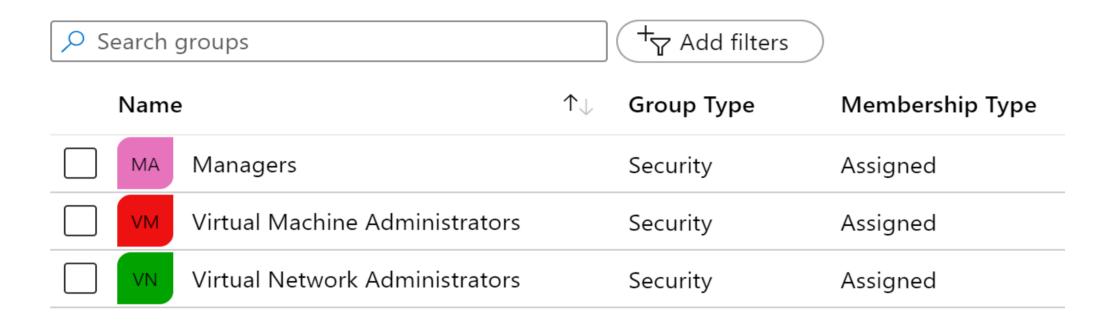
Must be Global Administrator or User Administrator to manage users

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

Deleted users can be restored for 30 days

Sign in and audit log information is available

#### **Create Group Accounts**



#### **Group Types**

- Security groups
- Microsoft 365 groups

#### **Assignment Types**

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

#### **Assign Licenses to Users and Groups**

Azure is a cloud service that provides many built-in services for free.

- Microsoft Entra ID comes as a free service
- Gain additional functionality with a P1 or P2 license

Additional Services (like O365 are paid cloud services)

- Microsoft paid cloud services require licenses
- Licenses are assigned to those who need access to the services
- Each user or group requires a separate paid license
- Administrators use management portals and PowerShell cmdlets to manage licenses

View license plans and plan details
 Set the Usage Location parameter
 Assign licenses to users and groups
 Change license plans for

users and groups

☐ Remove a license

#### **Create Administrative Units**



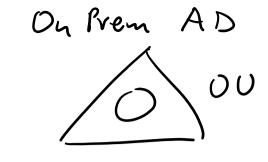




Populate the administrative unit with users or groups

Create a role with appropriate permissions scoped to the administrative unit

Add IT members to the role





Microsoft Entra ID P1 or P2
Privileged Role Administrator or
Global Administrator





### Lab 01 – Manage Microsoft Entra ID Identities

To allow Contoso users to authenticate, you have been tasked to:

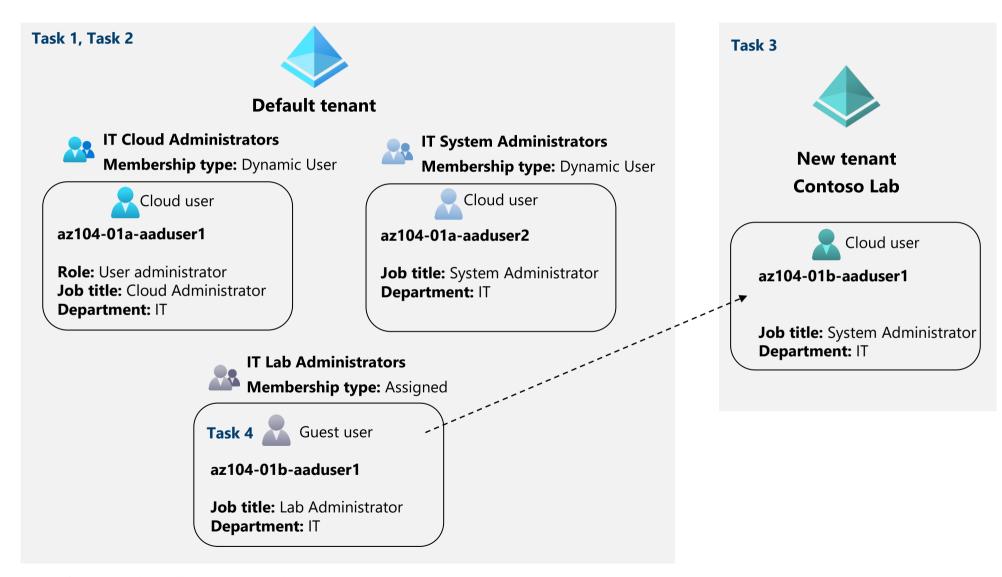
- Provision users and group accounts.
- Update membership of the groups automatically based on the user job titles.
- Create a test tenant with a test user account and grant that account limited permissions to resources in the Contoso Azure subscription.

#### **Objectives**

- **Task 1:** Create and configure users
- **Task 2:** Create groups with assigned and dynamic membership
- Task 3: Create a tenant
- **Task 4:** Manage guest users



## Lab 01 – Architecture diagram



<sup>©</sup> Copyright Microsoft Corporation. All rights reserved.

## End of presentation

