

AZ-104

Administer Identity



#### **AZ-104 Course Outline**

EntralD & User

01: Administer Identity RBAC "Owner"

02: Administer Governance and Compliance

03: Administer Azure Resources

04: Administer Virtual Networking

05: Administer Intersite Connectivity

06: Administer Network Traffic Management

07: Administer Azure Storage

08: Administer Azure Virtual Machines

09: Administer PaaS Compute Options

10: Administer Data Protection

11: Administer Monitoring

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## **Learning Objectives**

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



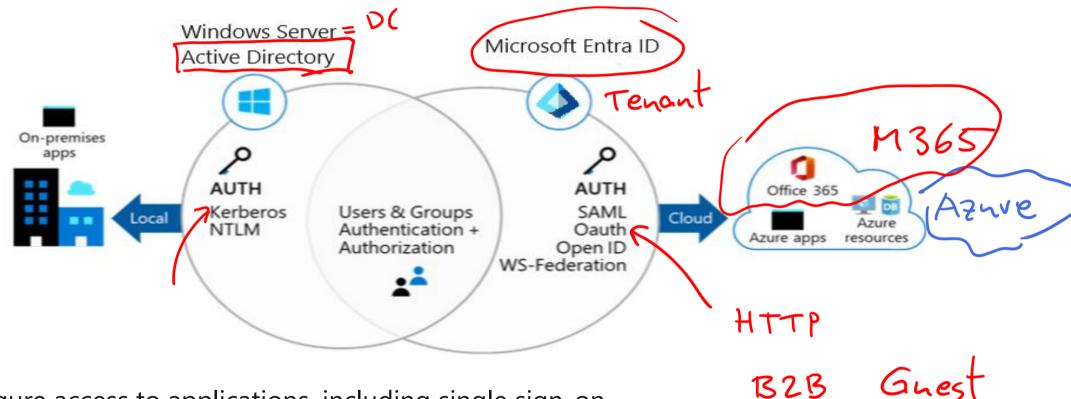


Understand Microsoft Entra ID

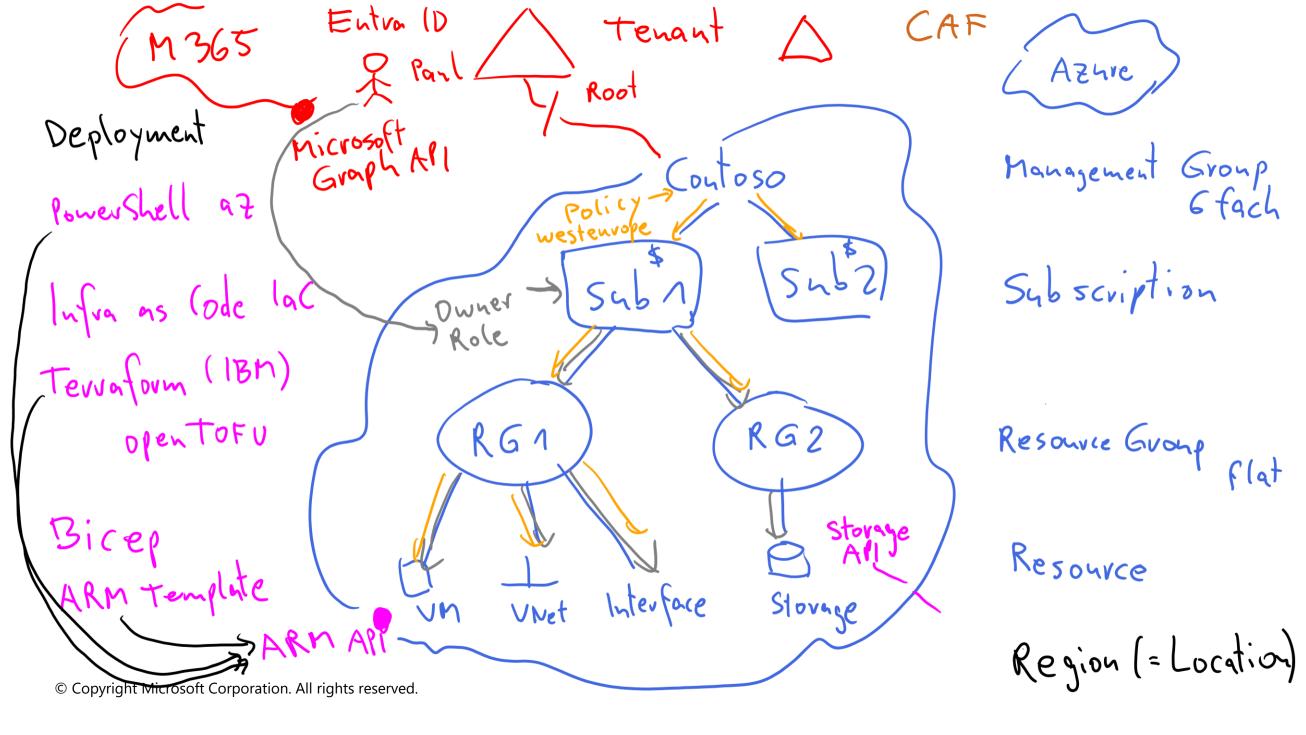
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## Hybrid Identify Examine Microsoft Entra ID



- Configure access to applications, including single sign-on
- Manage and provision users and groups
- Providing an identity management solution, including federation
- Implement security features like multi-factor authentication and conditional access





## **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 4	Used to pay for Azure cloud services

## 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)

## Compare Microsoft Entra ID P1 and P2 plans

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

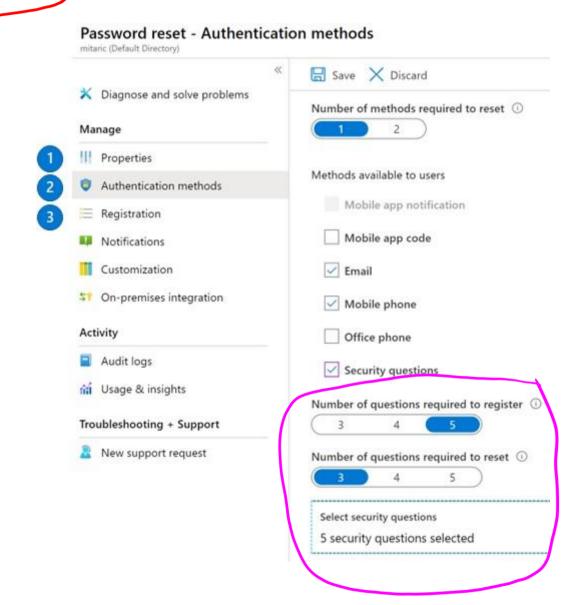
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## What is self-service password reset in Microsoft Entra ID?

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)



## **Learning Recap – Understand Microsoft Entra ID**



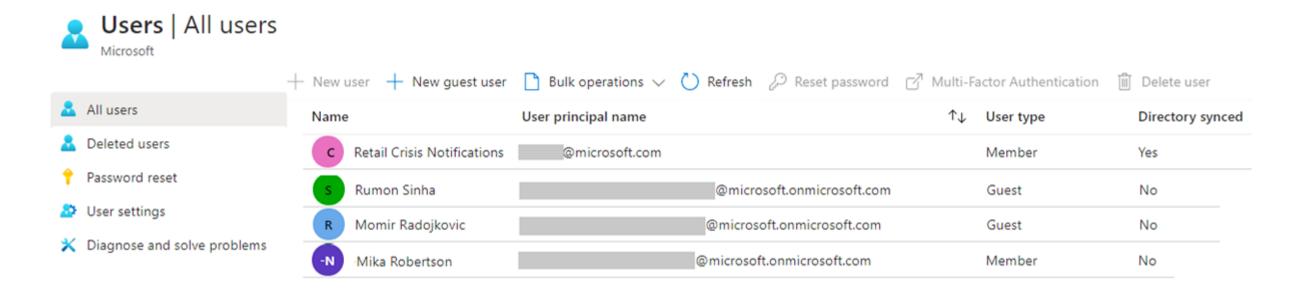
Check your knowledge questions and additional study

- Understand Microsoft Entra ID
- Allow users to reset their password with self-service password reset
- Implement and manage hybrid identity

# Configure User and Group Accounts



#### **Create User Accounts**



All users must have an account

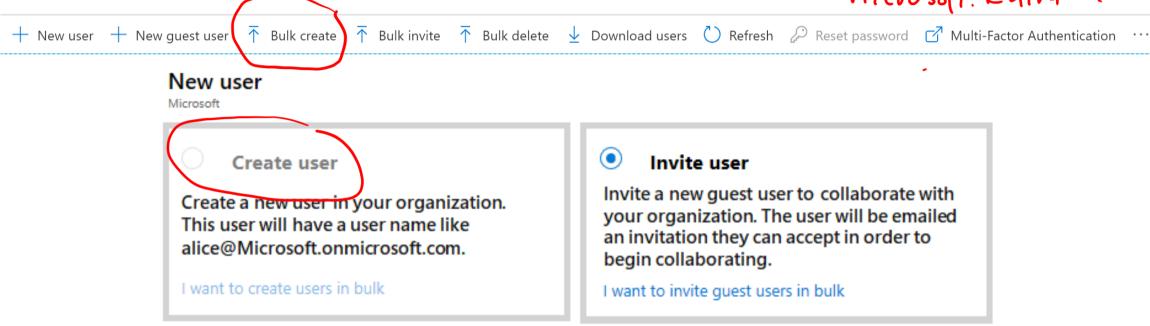
The account is used for authentication and authorization

Each user account has additional properties



Power Shell Module Azure AD (old)
Microsoft. Evaph (new)
Microsoft. Entra (schön)





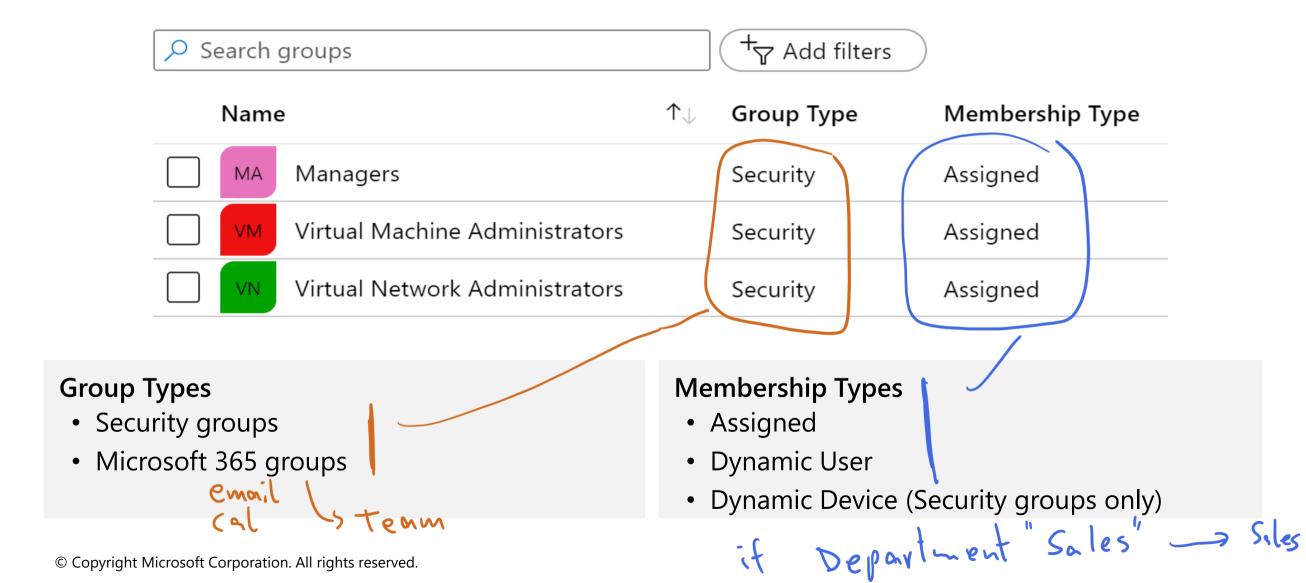
Must be Global Administrator or User Administrator to manage users

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**



## **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
   E3

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

## **Demonstration – Users and Groups**

- Review license and domain information
- Explore user accounts
- Explore group accounts

## **Learning Recap – Configure User and Group Accounts**



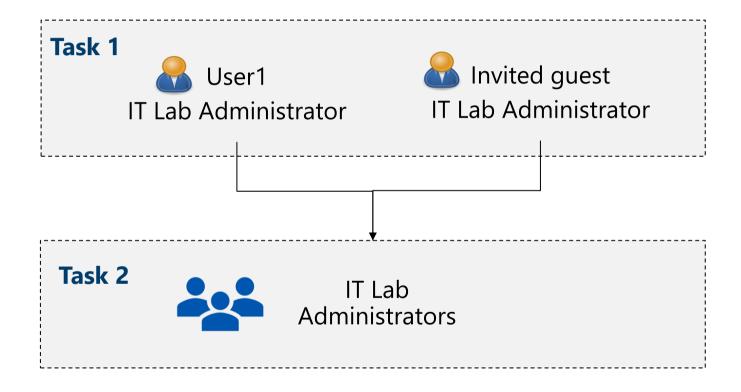
- Create Azure users and groups in Microsoft Entra ID
- Manage users and groups

Check your knowledge questions and additional study

## Lab – Manage Entra ID Identities



#### Lab 01 – Manage Entra ID Identities (architecture diagram)



## End of presentation

