

AZ-104

Administer Identity



AZ-104 Course Outline

- 01: Administer Identity
- 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

Learning Objectives

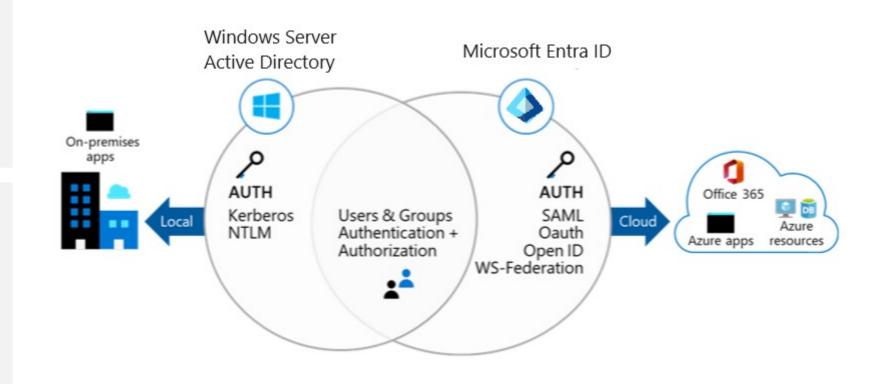
- Configure Microsoft Entra ID
- Configure User and Group Accounts
- <u>Lab 01 Manage Microsoft Entra ID Identities</u>



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



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	 A dedicated and trusted instance. A tenant is automatically created when your organization signs up for a Microsoft cloud service subscription. Additional instances can be created Microsoft Entra ID is the underlying product providing the identity service The term <i>Tenant</i> means a single instance representing a single organization The terms <i>Tenant</i> and <i>Directory</i> are often used interchangeably 	
Azure subscription	Used to pay for Azure cloud services	

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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)

Select Microsoft Entra Plans & Pricing (examples)

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

Configure Device Identities (optional)

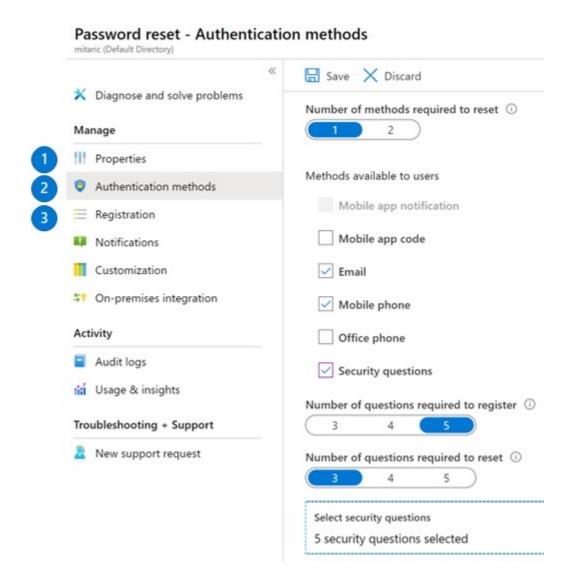
Registered devices	Joined devices	Hybrid joined devices	
 Supports Bring Your Own Device Registered devices sign-in using a Microsoft account Attached to an account granting access to resources Control using Mobile Device Management (MDM) tools like Microsoft Intune OS – Windows 10+, iOS, Android, and MacOS 	 Intended for cloud-first or cloud-only organizations Organization-owned devices Joined only to Azure - organizational account required Can use Conditional Access policies OS – Windows 10+ devices 	 You have Win32 apps deployed to these devices You want to continue to use Group Policy to manage the device 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)

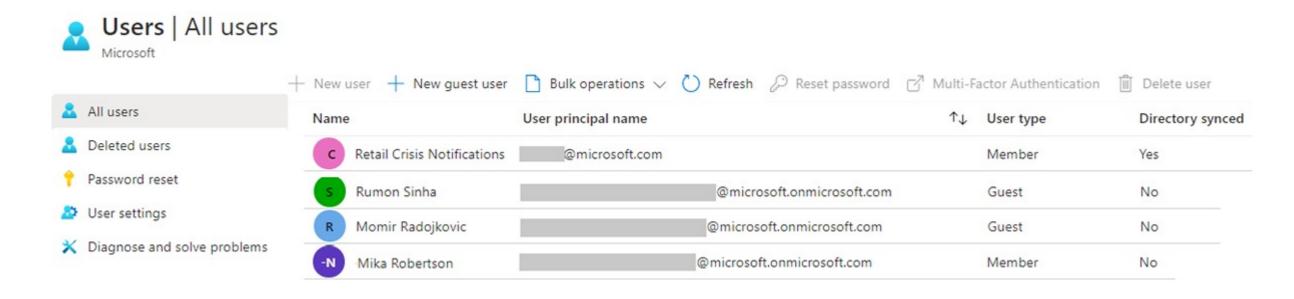
3. You can require users to register for SSPR (same process as MFA)



Configure User and Group Accounts



Create User Accounts

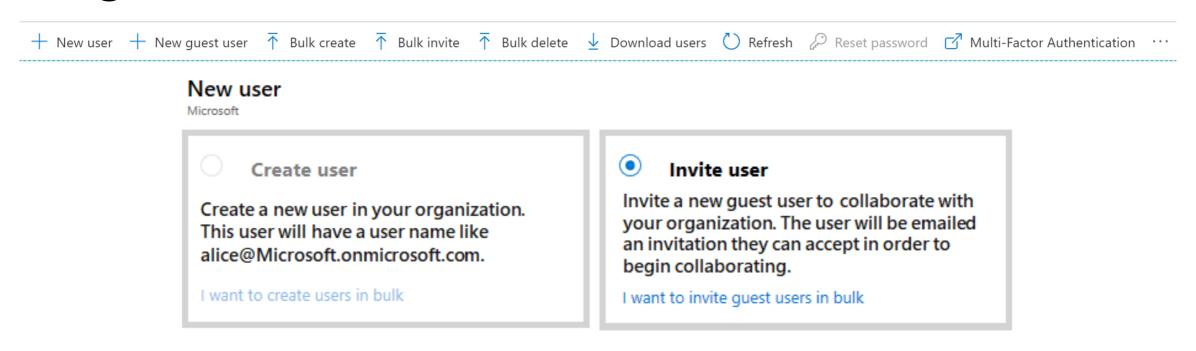


All users must have an account

The account is used for authentication and authorization

Each user account has additional properties

Manage User Accounts



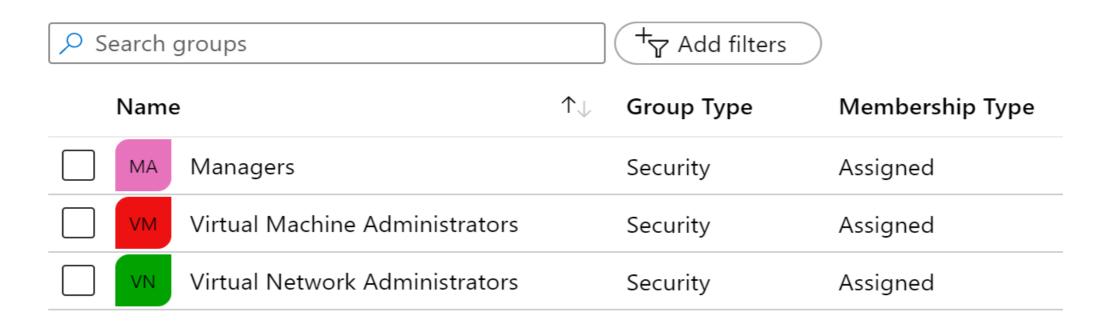
Must be Global Administrator or User Administrator to manage users

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
- ☐ Set the Usage Location parameter
- ☐ Assign licenses to users and groups
- ☐ Change license plans for users and groups
- ☐ Remove a license

Create Administrative Units

Create an administrative unit

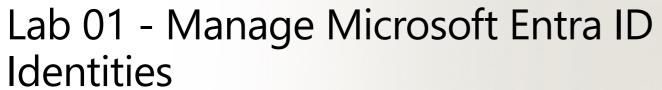
Populate the administrative unit with users or groups

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:

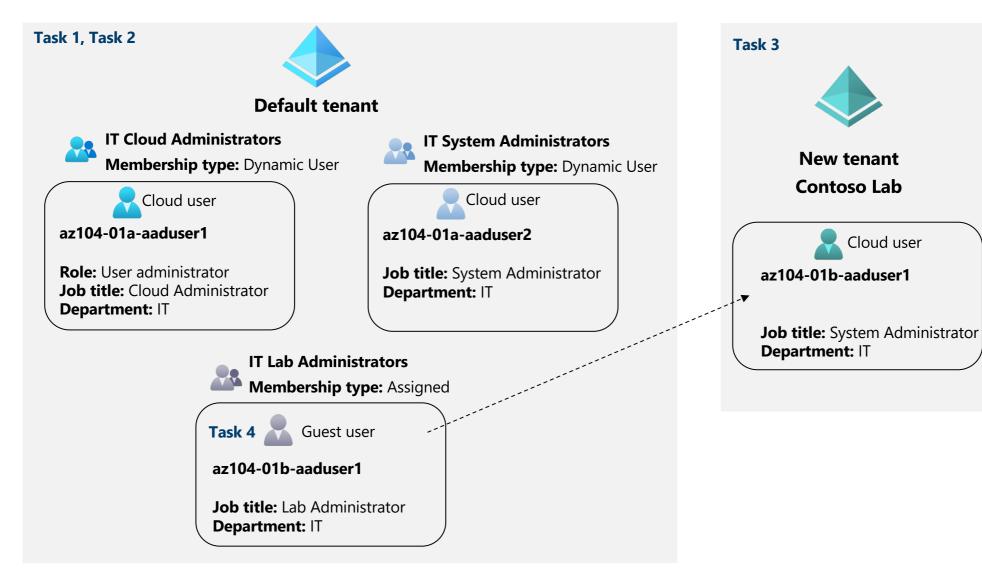
- Provision users and group accounts.
- Update membership of the groups automatically based on the user job titles.
- Create a test tenant with a test user account and grant that account limited permissions to resources in the Contoso Azure subscription.

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



End of presentation

