


AZ-104

Administer Identity



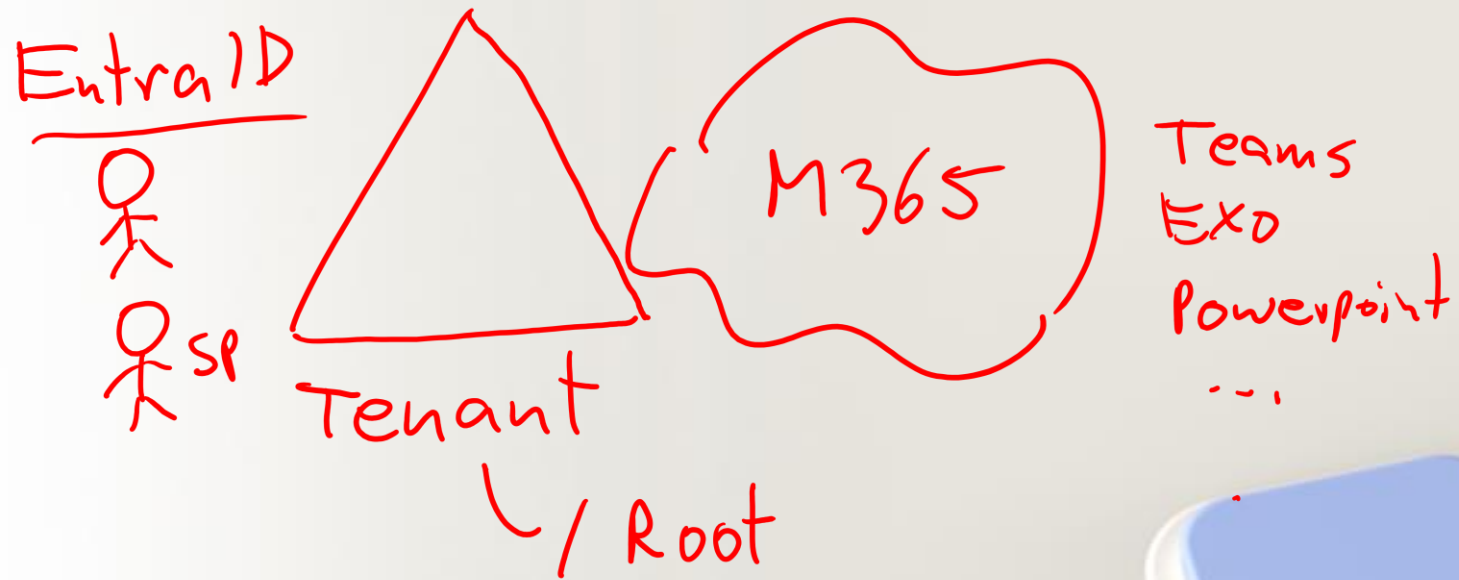
AZ-104 Course Outline

- 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

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

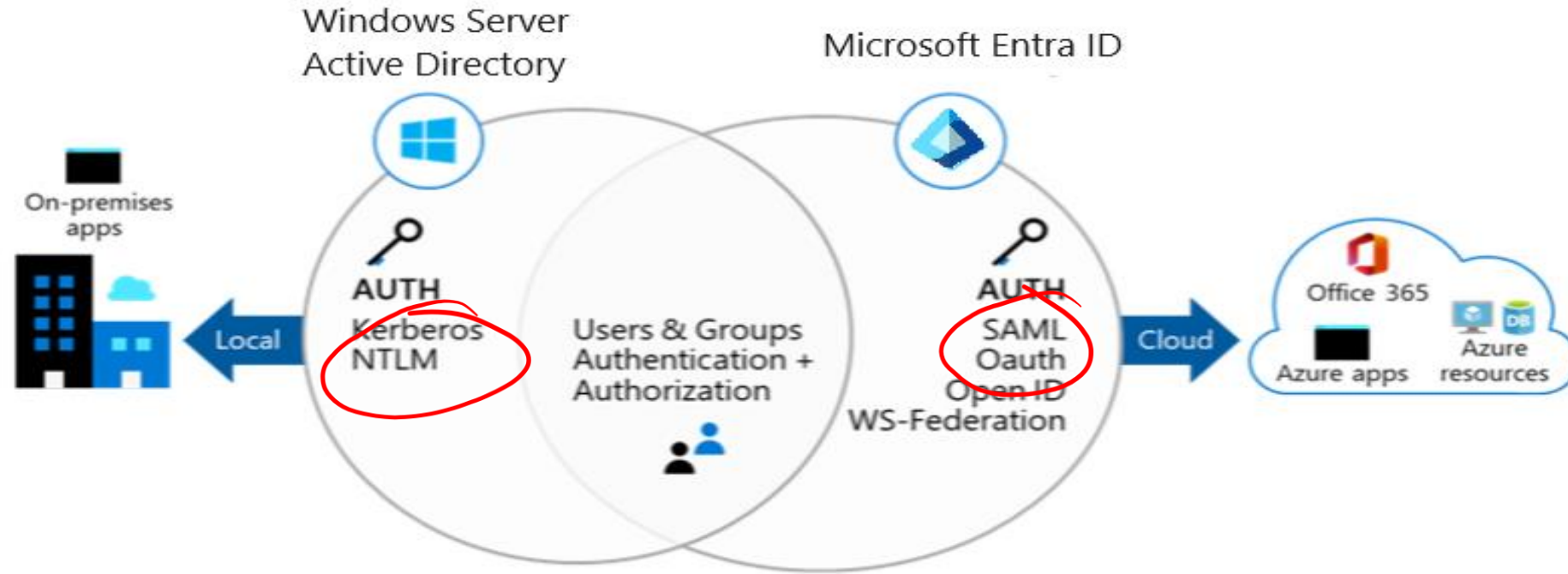
MFA



Understand Microsoft Entra ID

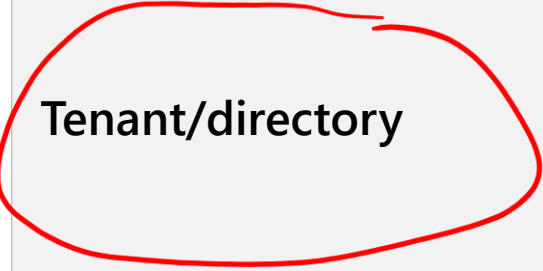


Examine Microsoft Entra ID



- 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	<p>A dedicated and trusted instance. A tenant is automatically created when your organization signs up for a Microsoft cloud service subscription.</p> <ul style="list-style-type: none">• 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

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	✓	✓	✓	
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)			✓	✓

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)

Password reset - Authentication methods
mitanic (Default Directory)

« Save X Discard

✖ Diagnose and solve problems

Manage

- 1 Properties
- 2 Authentication methods
- 3 Registration
- Notifications
- Customization
- On-premises integration

Activity

- Audit logs
- Usage & insights

Troubleshooting + Support

- New support request

Number of methods required to reset ⓘ

1 2

Methods available to users

- ☐ Mobile app notification
- ☐ Mobile app code
- ☒ Email
- ☒ Mobile phone
- ☐ Office phone
- ☒ Security questions

Number of questions required to register ⓘ

3 4 5

Number of questions required to reset ⓘ

3 4 5

Select security questions

5 security questions selected

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


 **Users** | All users


Microsoft


 All users


 Deleted users


 Password reset


 User settings


 Diagnose and solve problems


 New user


 New guest user








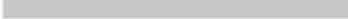
 Bulk operations

 Refresh

 Reset password

 Multi-Factor Authentication

 Delete user

Name	User principal name	↑↓	User type	Directory synced
 Retail Crisis Notifications	 @microsoft.com		Member	Yes
 Rumon Sinha	 @microsoft.onmicrosoft.com		Guest	No
 Momir Radojkovic	 @microsoft.onmicrosoft.com		Guest	No
 Mika Robertson	 @microsoft.onmicrosoft.com		Member	No

All users must have an account

The account is used for authentication and authorization

Each user account has additional properties

Manage User Accounts

- + New user
- + New guest user
- ↑ Bulk create
- ↑ Bulk invite
- ↑ Bulk delete
- ↓ Download users
- ↻ Refresh
- 🔑 Reset password
- 🔗 Multi-Factor Authentication
- ...

New user

Microsoft

☐ **Create user**

Create a new user in your organization.
This user will have a user name like
alice@Microsoft.onmicrosoft.com.

[I want to create users in bulk](#)



☒ **Invite user**

Invite a new guest user to collaborate with
your organization. The user will be emailed
an invitation they can accept in order to
begin collaborating.

[I want to invite guest users in bulk](#)

- 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

<div><div> Search groups</div><div><div> Add filters</div></div></div>				
Name		↑↓	Group Type	Membership Type
<input type="checkbox"/>	<div>MA</div> Managers		Security	Assigned
<input type="checkbox"/>	<div>VM</div> Virtual Machine Administrators		Security	Assigned
<input type="checkbox"/>	<div>VN</div> Virtual Network Administrators		Security	Assigned

Group Types

- Security groups
- Microsoft 365 groups

Membership 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

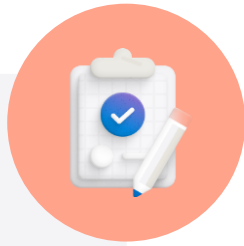
- ☐ View license plans and plan details
- ☒ Set the Usage Location parameter
- ☐ Assign licenses to users and groups
- ☐ Change license plans for users and groups
- ☐ Remove a license

Demonstration – Users and Groups



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

Learning Recap – Configure User and Group Accounts



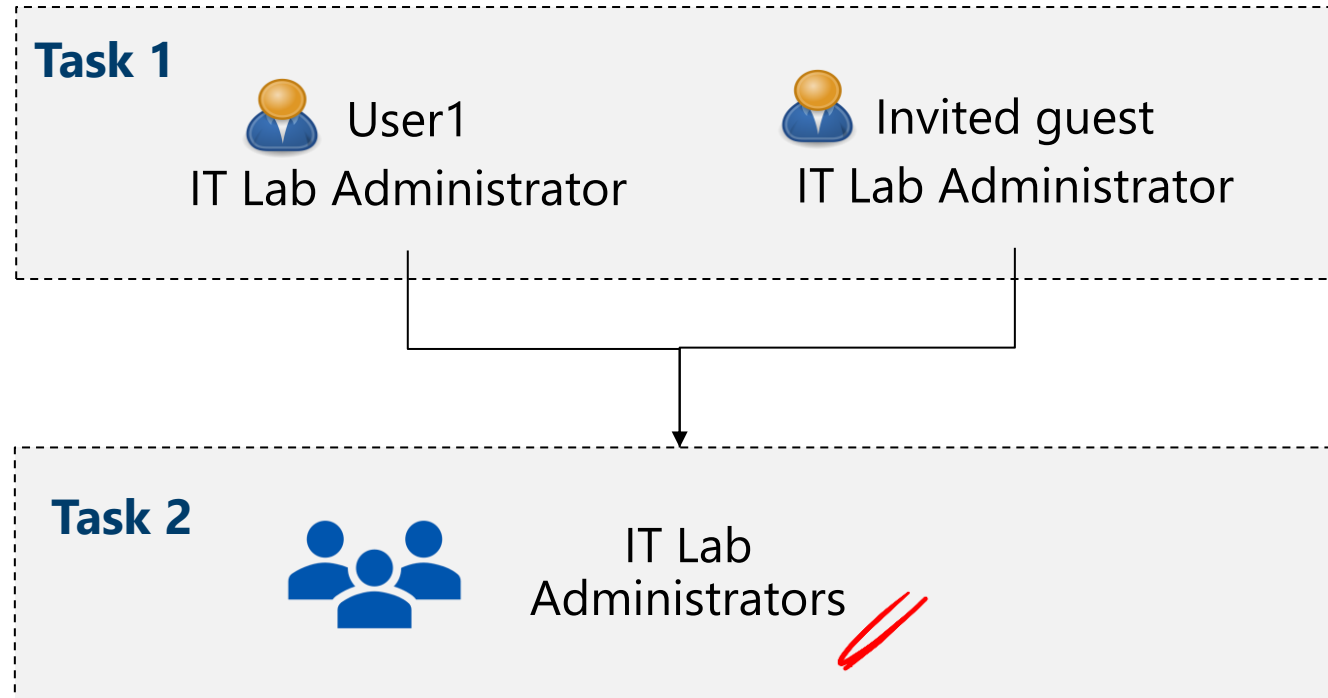
Check your
knowledge
questions and
additional
study

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

Lab – Manage Entra ID Identities



Lab 01 – Manage Entra ID Identities (architecture diagram)



End of presentation

