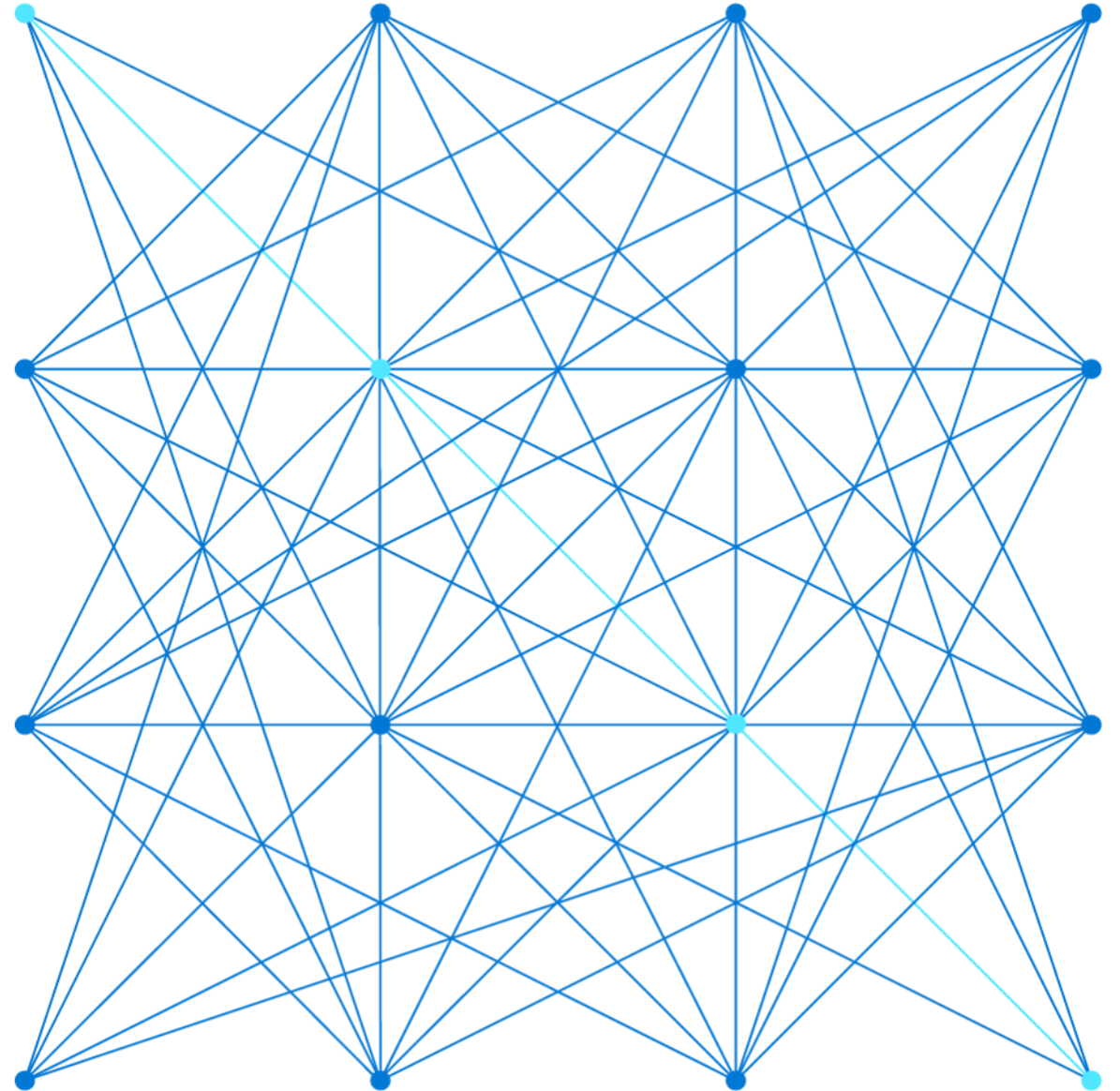


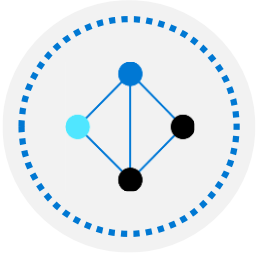
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Module 01:

Microsoft Entra ID



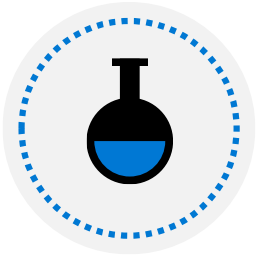
Module Overview



Lesson 01: Microsoft Entra ID

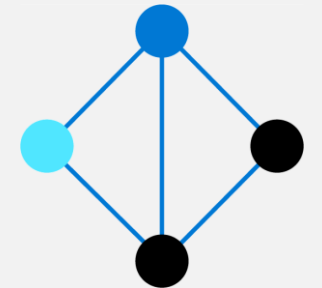


Lesson 02: Users and Groups

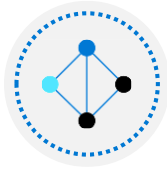


Lesson 03: Module 01 Lab and Review

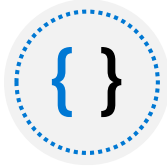
Lesson 01: Microsoft Entra ID



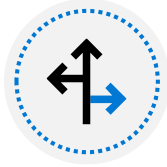
Microsoft Entra ID Overview



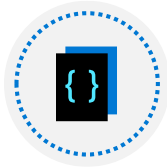
Introduction



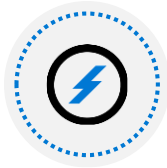
Benefits and Features



Concepts



AD DS vs Entra ID



Microsoft Entra Editions

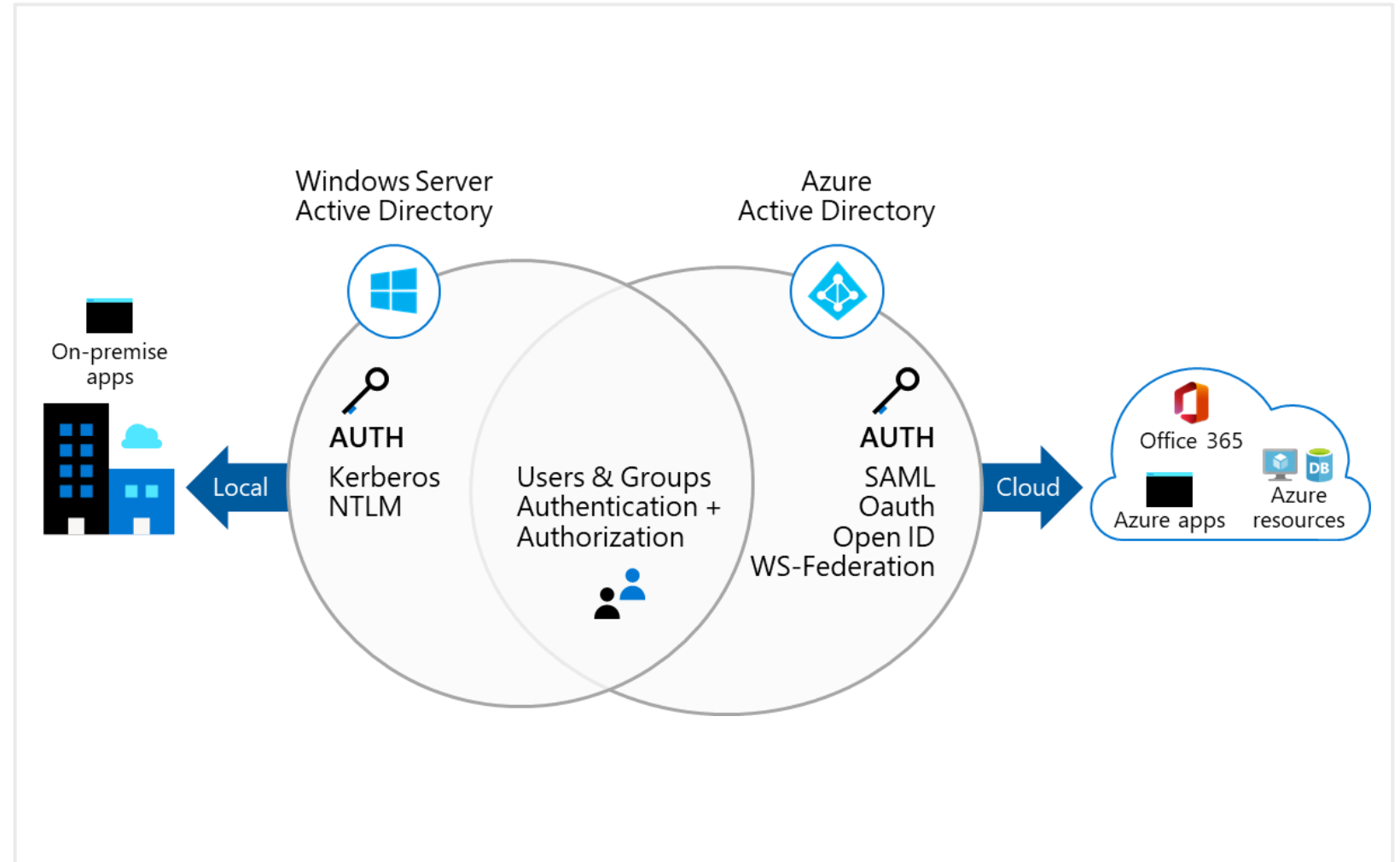


Self-Service Password Reset

Microsoft Entra ID

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



Microsoft Entra Features

Feature	Description
SSO	Secure single sign-on to web apps on cloud and to on-premises app
Ubiquitous device support	Works with iOS, macOS, Android, Windows devices. Offers common experience across devices.
Secure remote access	Enable secure remote access for on-premises web apps. Include MFA, conditional policies, and group-based access management.
Cloud extensibility	Extend to cloud to help manage consistent set of users, groups, passwords and device across environments
Sensitive data protection	Offers unique identity protection capabilities to secure sensitive data and apps.
Self-service support	Delegate selected administrators tasks. Provide self-service app access and password management through verification steps.

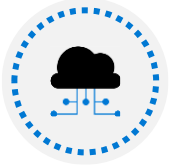
Microsoft Entra Concepts

Concept	Description
Identity	An object that can be authenticated
Account	An identity that has data associated with it
Entra account	An identity created through Azure AD or another Microsoft cloud service
Azure tenant/directory	<p>A dedicated and trusted instance of Azure AD, 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 of Azure AD can be created• Azure AD is the underlying product providing the identity service• The term <i>Tenant</i> means a single instance of Azure AD 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

AD DS vs Microsoft Entra ID



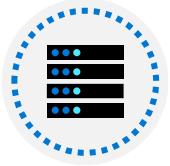
Azure AD is primarily a fully managed identity solution, and designed for HTTP and HTTPS communications



Queried using the REST API over HTTP and HTTPS. Instead of LDAP



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



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



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

Microsoft Entra ID Editions

Feature	Free	Premium P1	Premium P2
Directory Objects	500,000 objects	No object limit	No object limit
Single Sign-On	Unlimited	Unlimited	Unlimited
Core Identity and Access Management	X	X	X
Business-to-business Collaboration	X	X	X
Identity & Access for O365		X	X
Premium Features		X	X
Hybrid Identities		X	X
Advanced Group Access		X	X
Conditional Access		X	X
Identity Protection			X
Identity Governance			X

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)

Password reset - Authentication methods
mitaric (Default Directory) - Azure Active Directory

Save 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

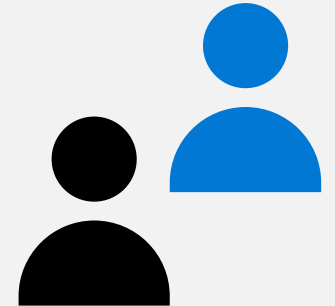
Number of questions required to reset ⓘ

3 4 5

Select security questions

5 security questions selected

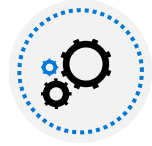
Lesson 02: Users and groups



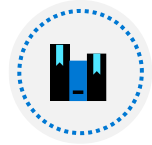
Users and Groups Overview



User Accounts



Managing User Accounts



Bulk User Accounts



Group Accounts



Managing Multiple Directories



Demonstration – Users and Groups

User Accounts

Users - All users

microsoft - Azure Active Directory

Search (Ctrl+/)

All users

Deleted users

Password reset

User settings

New user

New guest user

Reset password

Delete user

Multi-Factor Authentication

Refresh

Columns

NAME	USER NAME	USER TYPE	SOURCE
Retail Crisis Notifications	@microsoft.com	Member	Windows Server AD
"Planning & Launch Services OEM Inquiries	@microsoft.com		Windows Server AD
' Bert	@hotmail.com	Guest	Azure Active Directory
@fi.pwc.com	@fi.pwc.com	Guest	Azure Active Directory

All users must have an account

The account is used for authentication and authorization

Identity Sources: Cloud, Directory-synchronized, and Guest

Managing 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

Bulk User Accounts



	A	B	C
1			
2			
3			
4			
5			
6			
7			

CSV

**New –
AzADUser**

Azure AD

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

 Search groups

+ Add filters

	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

Assignment Types

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

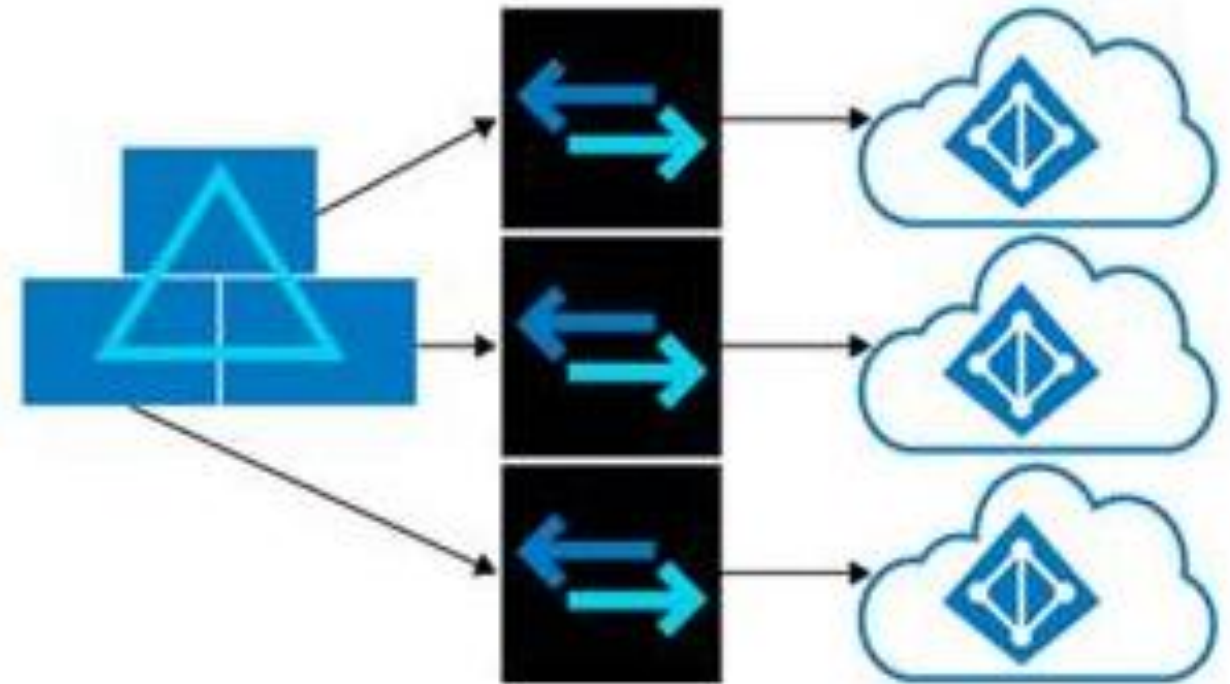
Managing Multiple Directories

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:

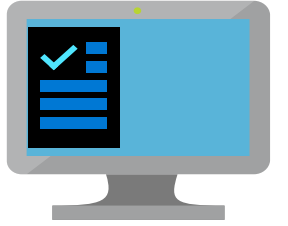
- Resource independence
- Administration independence
- Synchronization independence



Knowledge Checks (5 min)



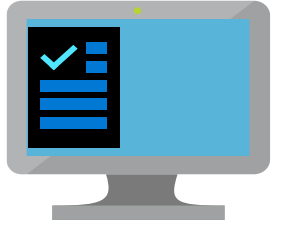
Knowledge Check



Question: Which choice correctly describes Microsoft Entra ID?

- a) Microsoft Entra ID can be queried through LDAP.
- b) Microsoft Entra ID is primarily an identity solution.
- c) Microsoft Entra ID uses organizational units (OUs) and group policy objects (GPOs).

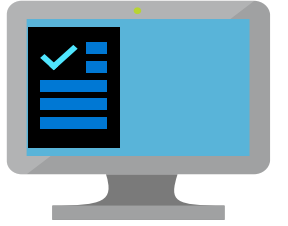
Knowledge Check



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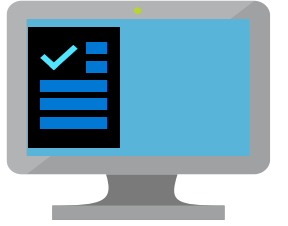
Knowledge Check



Question: What term defines a dedicated and trusted instance of Microsoft Entra ID?

- a) Azure tenant
- b) Identity
- c) Microsoft Entra account

Knowledge Check



Question: What term defines a dedicated and trusted instance of Microsoft Entra ID?

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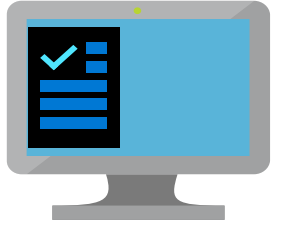
Knowledge Check



Question: Which is true about Microsoft Entra ID?

- a) Microsoft Entra ID includes federation services.
- b) Microsoft Entra ID uses Kerberos authentication.
- c) Microsoft Entra ID organizes users and groups into organization units.

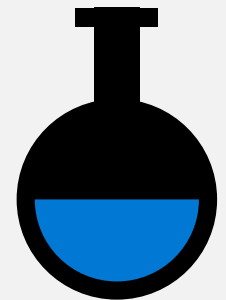
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Lesson 03: Module 01 Lab and Review



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:

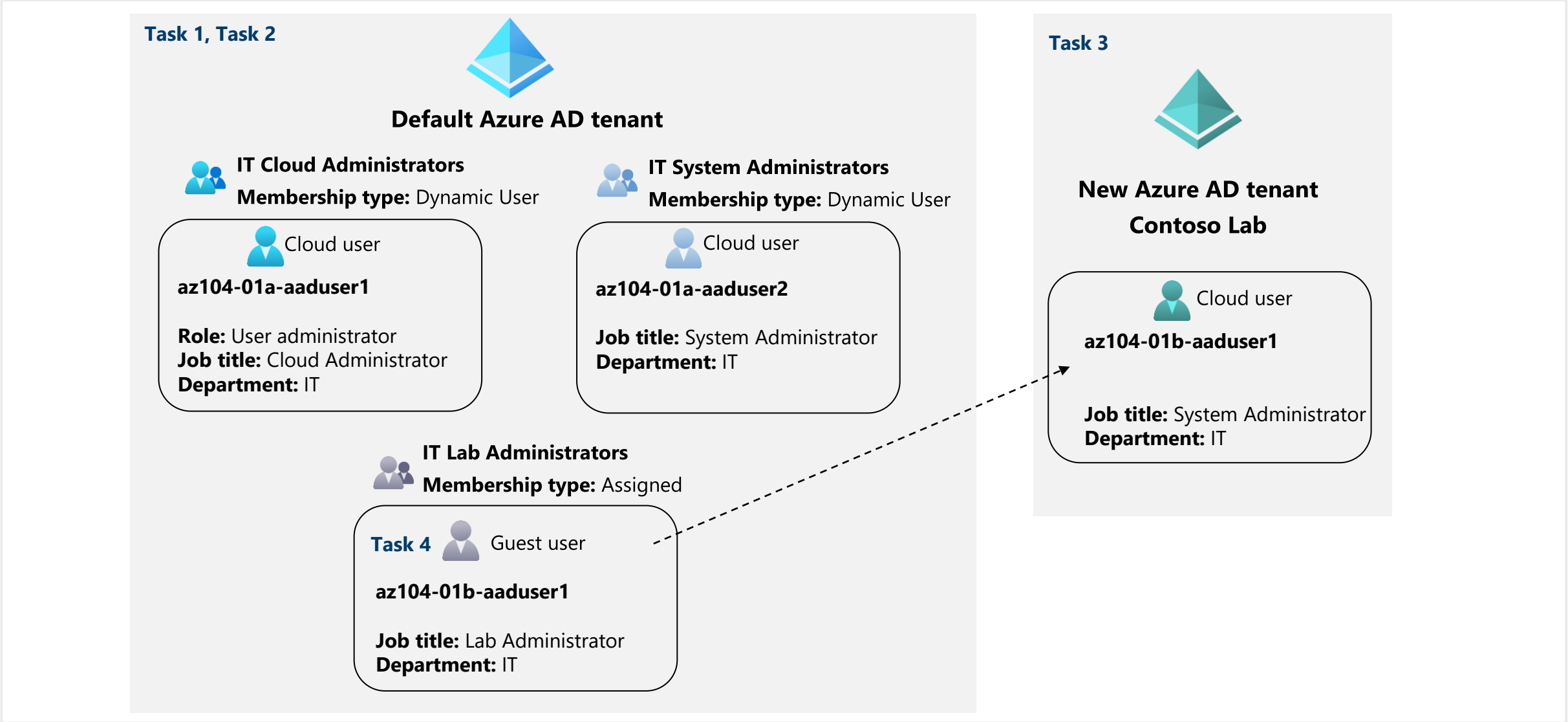
Create an Azure
Active Directory (AD)
tenant

Task 4:

Manage Azure AD
guest users

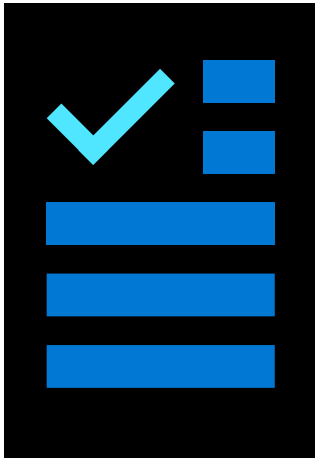
Next slide for an architecture diagram 

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