
Microsoft Entra ID – Overview (AZ-104)

1. What is Microsoft Entra ID?

Microsoft Entra ID is Microsoft's **cloud-based identity and access management (IAM)** service. It is the **backbone of authentication and authorization** in Azure, Microsoft 365, and other cloud services.

It allows administrators to:

- Authenticate users and devices
- Manage access to apps and resources
- Enforce security controls like MFA
- Support hybrid identity (on-prem + cloud)

 Formerly known as **Azure Active Directory (Azure AD)**. Now it's rebranded as **Microsoft Entra ID** as part of the Entra product family.

2. Key Features Relevant to AZ-104

Feature	Description
Users & Groups	Create/manage identities and group them for access control
Azure RBAC Integration	Assign roles like Reader, Contributor, etc. to users/groups
MFA (Multi-Factor Authentication)	Add extra security using phone/email/apps
Conditional Access	Create policies to enforce MFA, block risky logins, etc.

Device Management	Control which devices can access resources
Hybrid Identity	Sync on-prem Active Directory with Azure using Azure AD Connect
Service Principals & Managed Identities	Allow apps/scripts to authenticate securely

3. Real-World Scenarios (AZ-104)

◆ Scenario 1: Give Developers Access to a Resource Group

A team of developers needs Contributor access to a specific resource group but **not** to the entire subscription.

Solution:

- Create a group in **Microsoft Entra ID**
- Add developers to the group
- Assign the **Contributor** role at the **resource group level** using RBAC

```
az role assignment create \
  --assignee "<group-object-id>" \
  --role "Contributor" \
  --scope "/subscriptions/<sub-id>/resourceGroups/<rg-name>"
```

◆ Scenario 2: Enforce MFA for Admins

Security team wants to ensure that all Global Administrators are protected with MFA.

Solution:

- Create a **Conditional Access policy**
 - Target users in the **Global Administrator** role
 - Require MFA when accessing cloud apps
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◆ Scenario 3: Hybrid Identity

Your organization uses on-prem Active Directory and wants users to use the same credentials in Azure.

Solution:

- Deploy **Azure AD Connect**
 - Sync on-prem users to **Microsoft Entra ID**
 - Enable **Password Hash Sync** or **Pass-through Authentication**
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4. Key Portal Areas & Tools

Portal Area	Purpose
Microsoft Entra Admin Center	Manage Entra ID users, groups, roles, MFA, and devices
Azure Portal → Access control (IAM)	Assign RBAC roles using Entra ID identities
Azure AD Connect (on-prem)	Set up hybrid identity with sync options
PowerShell / CLI	Automate user and role management

5. Sample AZ-104 Question

Q: You need to allow a group of support engineers to reset passwords for other users in the organization. What should you do?

- A.** Assign them the Owner role on the subscription
- B.** Assign them the Password Administrator role in Microsoft Entra ID
- C.** Add them to the Global Administrator role
- D.** Create a Conditional Access policy

✅ **Correct Answer: B** — the **Password Administrator** role allows users to reset passwords without full admin access.



6. Exam Tips

- Know the **difference** between:
 - **Azure roles (RBAC)** – for managing access to Azure resources
 - **Entra ID roles** – for managing identities (e.g., Global Admin, User Admin)
 - Practice **Conditional Access** setup and MFA enforcement
 - Understand **RBAC scopes**: Subscription, Resource Group, Resource
 - Expect questions around **syncing users** from on-prem to cloud
 - Know how to manage **service principals** and **managed identities**
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Summary Table

Capability	Where It Happens
User creation	Microsoft Entra Admin Center / CLI
Group-based access	Microsoft Entra ID + Azure RBAC
MFA	Enforced via Conditional Access
Hybrid identity	Azure AD Connect
App identity (automation)	Managed Identities / Service Principals
