Microsoft Entra Identity & Access Management

1. V Overview

- Create and manage users, groups, and roles
- Implement Multi-Factor Authentication (MFA)
- Configure Conditional Access Policies
- Manage Azure AD roles and RBAC
- Implement identity protection features
- Set up **hybrid identity** with on-prem Active Directory

2. 🧠 Key Concepts

- Users and Groups: Manage access at scale by assigning roles to groups instead of individuals.
- Azure AD Roles: Provide control over identity management (e.g., Global Administrator, User Administrator).
- **RBAC (Role-Based Access Control)**: Grant access to Azure resources based on roles (e.g., Contributor, Reader).
- MFA (Multi-Factor Authentication): Adds a second layer of authentication.
- Conditional Access: Enforce policies like "Require MFA if accessing from an untrusted location."
- Hybrid Identity: Sync on-prem Active Directory users with Azure AD using Azure AD
 Connect.

3. Peal-World Scenarios

Scenario 1: User Management and Role Assignment

Your organization hires 10 developers. You need to give them access to deploy resources in a specific resource group without giving them access to other parts of the subscription.

Solution:

- Create a group "Dev-Team"
- Add the 10 users
- Assign the **Contributor** role to the group on the specific resource group

Command:

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

Scenario 2: Secure Admin Access with MFA

You notice failed login attempts on admin accounts from unusual locations. You want to protect global admins with MFA.

Solution:

- Enable MFA for admin roles
- Create a Conditional Access Policy that targets users in the "Global Administrator" role and requires MFA

Scenario 3: Sync On-Prem Users to Azure

A company uses an on-prem Active Directory. They want to allow existing users to log in to Azure with the same credentials.

Solution:

- Install Azure AD Connect
- Enable Password Hash Sync or Pass-through Authentication

4. Normands & Portal Steps

Create User:

az ad user create --display-name "John Doe" --user-principal-name "john@contoso.com" --password "StrongP@ssword!"

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Create Group:

az ad group create --display-name "Dev-Team" --mail-nickname "devteam"

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Assign Role via RBAC:

az role assignment create --assignee "<user-or-group-id>" --role "Reader" --scope "/subscriptions/<sub-id>"

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- Enable MFA via Conditional Access (Portal):
 - Go to Microsoft Entra admin center
 - Conditional Access > New policy
 - Assign users/roles > Assign cloud apps > Conditions (e.g., location) > Grant:
 Require MFA

5. **Exam Tips**

 Know the difference between Azure AD roles (for identity) and Azure RBAC roles (for resource access).

- Practice **Conditional Access scenarios** and what happens when users meet or don't meet the conditions.
- Expect drag-and-drop questions about assigning access using groups, roles, and scopes.
- Be familiar with **Azure AD Connect** setup and syncing methods.
- Understand the **break-glass account** concept (MFA-exempt emergency account).