Microsoft Azure Security Technologies (AZ-500) Cert Prep: 1 Manage Identity and Access

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COLIDEE

Microsoft Azure Security Technologies (AZ-500) Cert Prep: 1 Manage Identity and Access

1,473 learners

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- 1. Manage Azure Active Directory (Azure AD) Identities
- 1.1 Create and manage a managed identity for Azure resources

What Are Managed Identities?

Provide an identity for applications to use when connecting to resources that support Azure AD authentication

Types of Managed Identities

System assigned

Is created in Azure AD that is tied to the lifecycle of a specific service instance When the resource is deleted, Azure automatically deletes the identity for yo Only that Azure resource can use this identity to request tokens from Azure AD

User assigned

A managed identity as a standalone Azure resource

Can be used by multiple Azure resources, determined by you

Has an independent lifecycle, so must be deprovisioned manually

Microsoft recommends using system-assigned managed identities whenever possible.

Benefits of Managed Identities

You don't need to manage credentials

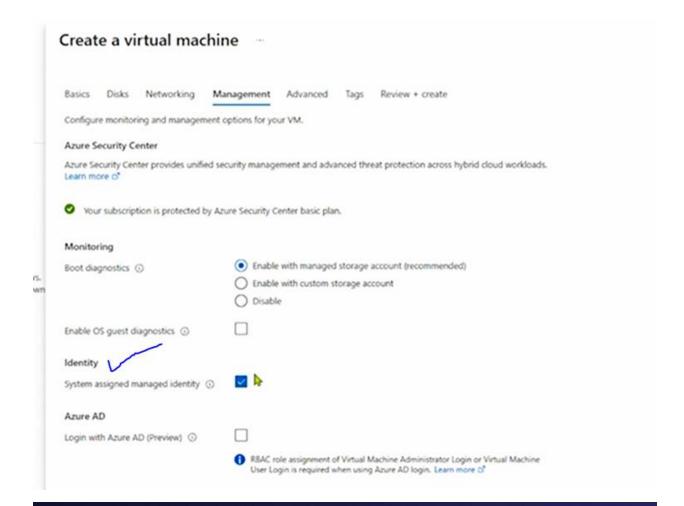
Credentials are not even accessible to you.

Authenticate to any resource that supports Azure AD

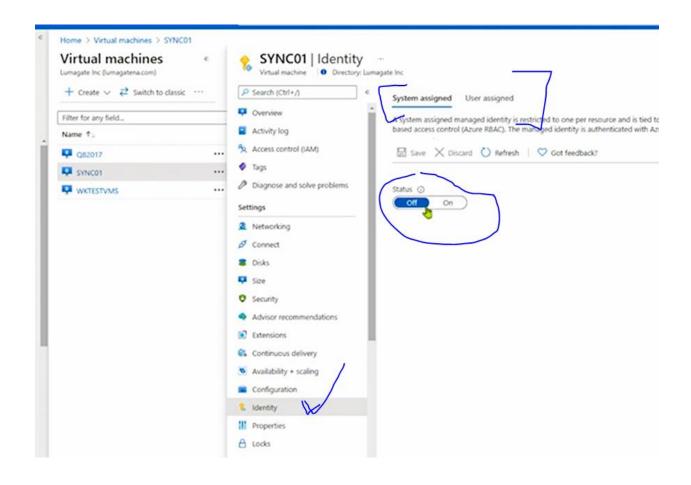
You can use managed identities to authenticate to any resource that supports Azure AD authentication, including your own applications.

Improve security, no additional cost

Freedom from credential management and automated lifecycle management (with system assigned), managed identities benefit security



Familiarize yourself with the differences between managed identity types and their implications to security.



Azure AD Groups Features

✓ Dynamic groups

✓ Group expiration

✓ Naming policy

✓ Office 365 Groups

- ✓ Access reviews
- ✓ Group licensing
- ✓ Bulk operations

Azure AD Group Types

Both store user membership info...

Both help secure files, folders, and apps...





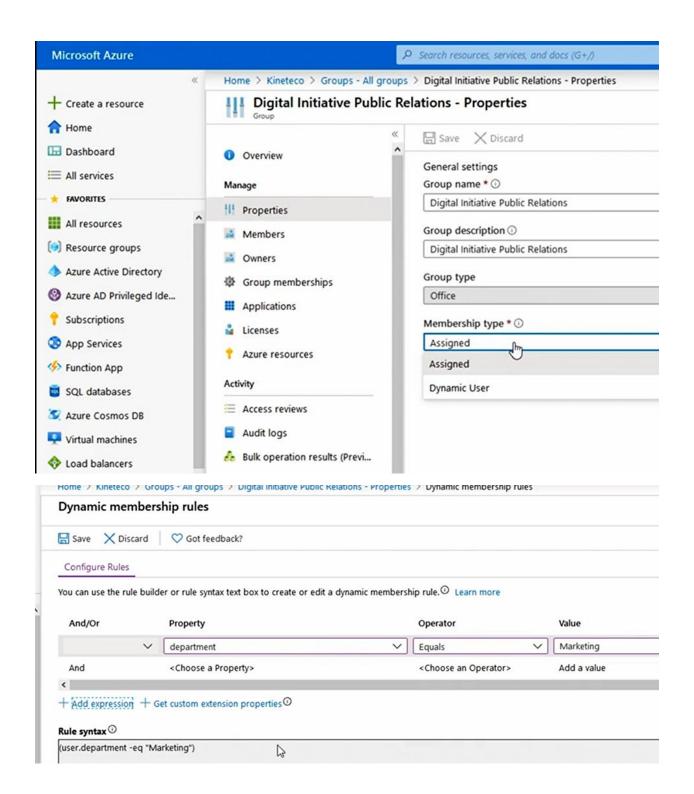
Office 365 Groups

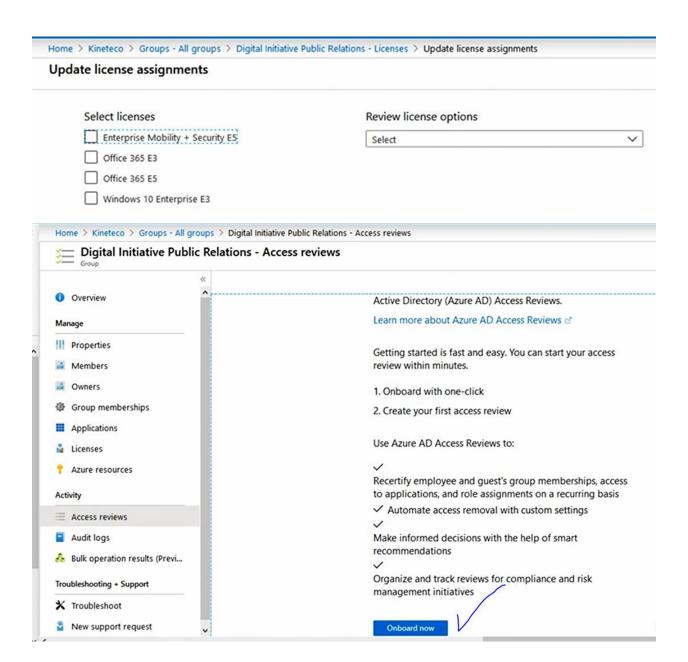
Automate creation of multiple resources, centralize membership in one place, and allow admins to apply policies at the group level

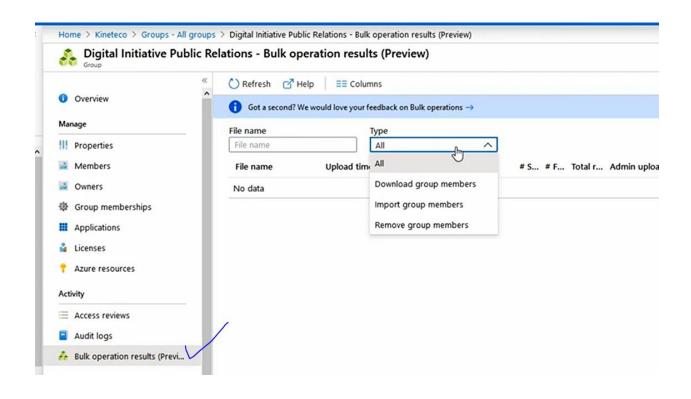
Resources with Office 365 Groups

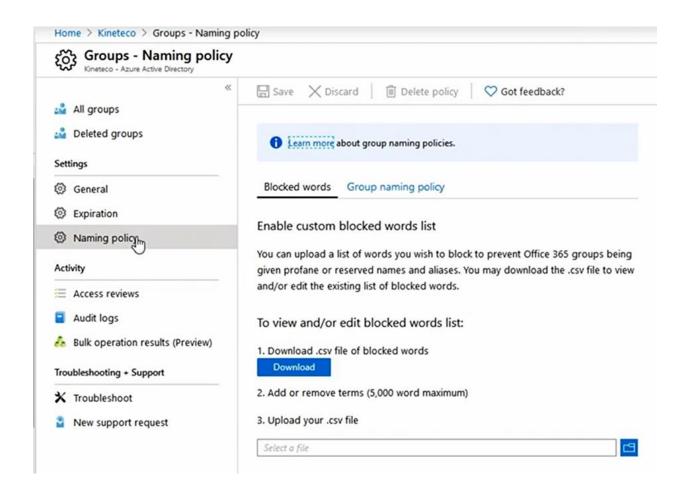
- A shared Outlook inbox
- A shared calendar
- A SharePoint doc library
- A Planner
- Power BI

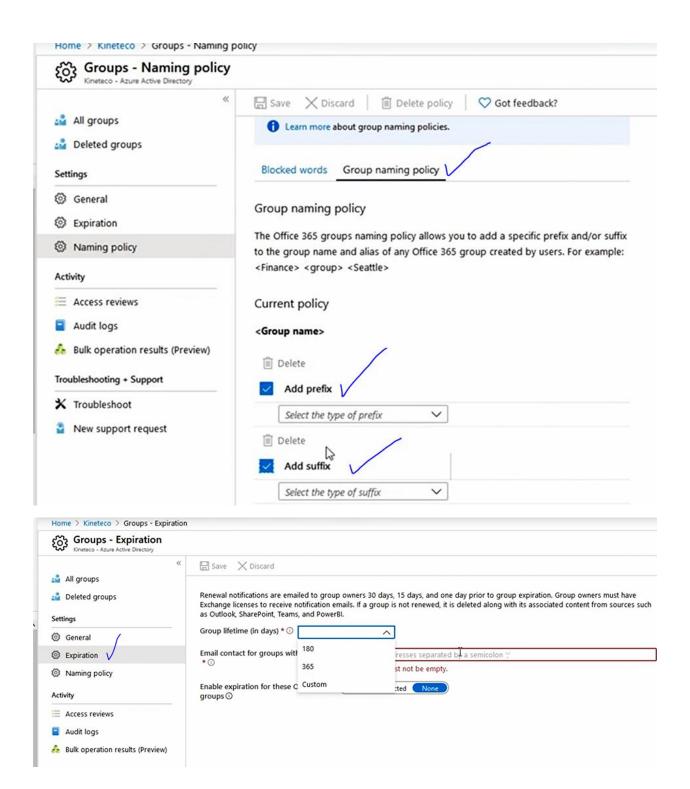
- Yammer
- A Team
- Roadmap











Exam Tip

Focus on the advanced, security-related features of groups in Azure AD

1.3 Manage AD Users

Managing Azure AD Users

- ✓ Provisioning options
- ✓ Creating and configuring users
- ✓ Deleting and recovering users
- ✓ Security and auth-related configuration

Important User Settings



A few important items...



Usage location



Authentication contact info

Creating users with PowerShell

Connect-AzureAD

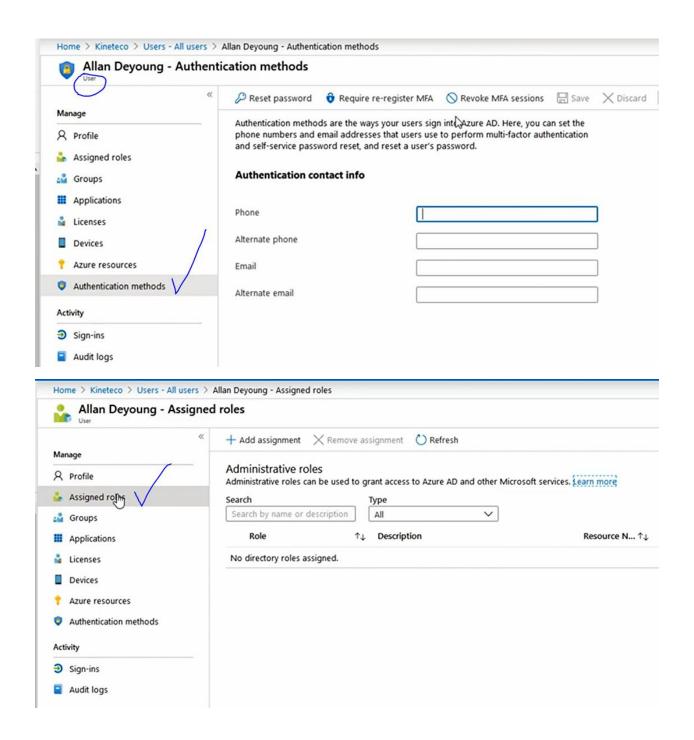
\$PasswordProfile = New-Object

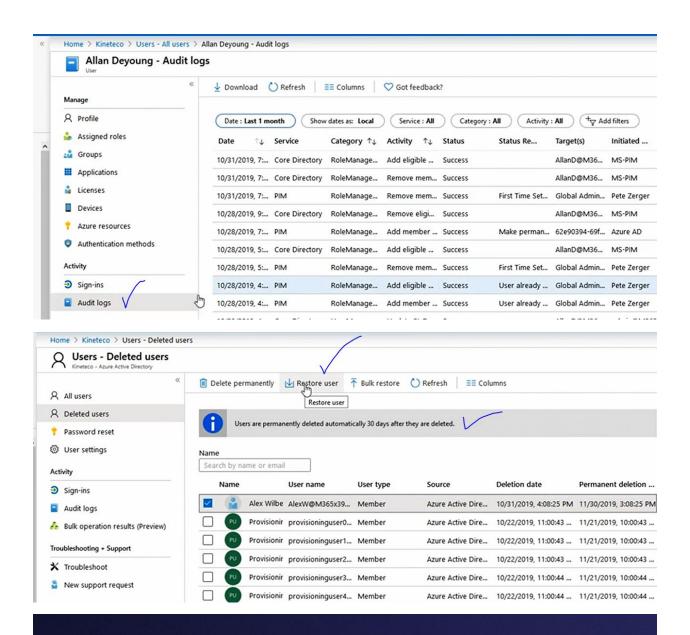
-TypeName.Open.AzureAD.Model.PasswordProfile

\$PasswordProfile.Password = "P@ssw0rd1!"

New-AzureADUser - DisplayName "New User" `

- -PasswordProfile \$PasswordProfile `
- -UserPrincipalName "NewUser@contoso.com" -AccountEnabled \$true `
- -MailNickName "Newuser"





Focus on the aspects of user management related to authentication, access, and automation.

External Identity Scenarios

There are four approaches to external identities in Azure Active Directory (Azure AD) you should be familiar with:

1. External identities

When collaborating with partner organizations with an Azure AD tenant

2. External identities with social IdP

For partners, contractors, or customers **with a social identity** (Google, Facebook, etc.)

External Identity Scenarios

3. External identities with direct federation

For organizations without an Azure AD but have a service that supports the SAML or WS-Federation protocols

4. External identities OTP (one-time password) with email

When other means, such as Azure AD, Microsoft account (MSA), or social identity providers are not an option

Tenants in the External Identity Scenarios



Resource tenant (where the app or resource is)



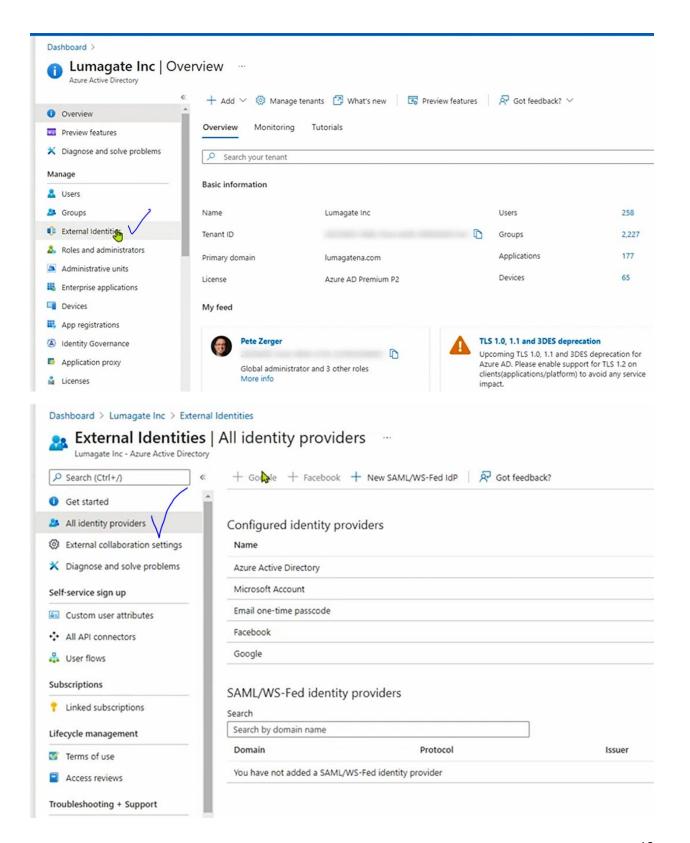
Account tenant (where the account is)

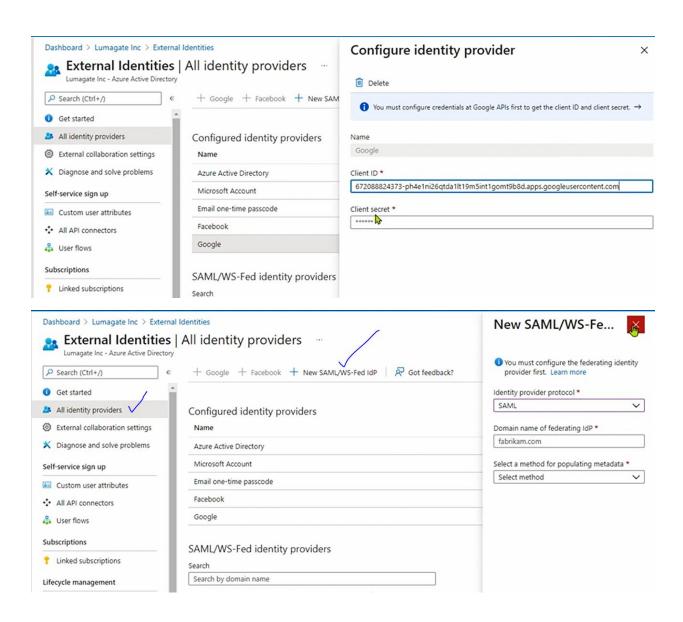
You have two tenants to think about when approaching the topic of external identities.

You will be the resource tenant admin in most exam scenarios.

Process Flow for External Identity Scenarios

- 1. Resource tenant admin creates invitation for external user.
- 2. User object is created for external user (when invite is accepted).
- **3.** External user accesses resources for the first time.
- **4.** Home Realm Discovery (HRD)
- **5.** HRD configuration is looked up, then authentication sequence takes place.





External Identity Scenarios in Azure AD

Recap of some fundamental concepts you will want to remember for the exam:

Resource tenant (where the app or resource is) owns the user lifecycle

Account tenant own the credentials

Flow for each scenario is the same, but authentication technique changes

Resource tenant admin must configure social, direct federation, or email OTP in advance

For the Exam

Know the use cases for external identities and the tasks the resource tenant admin must complete.

1.5 Manage administrative unit

What Are Administrative Units?

Containers of users and groups and serve as a boundary for delegation of administration

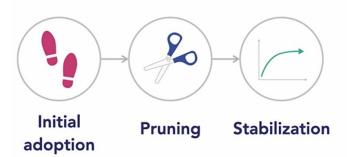
Azure AD Premium P1 or P2 license for each administrative unit administrator

Azure AD Free licenses for administrative unit members

Assign delegate users to an Azure AD role with a scope that's limited to one or more administrative units

Automation/command line using AzureAD

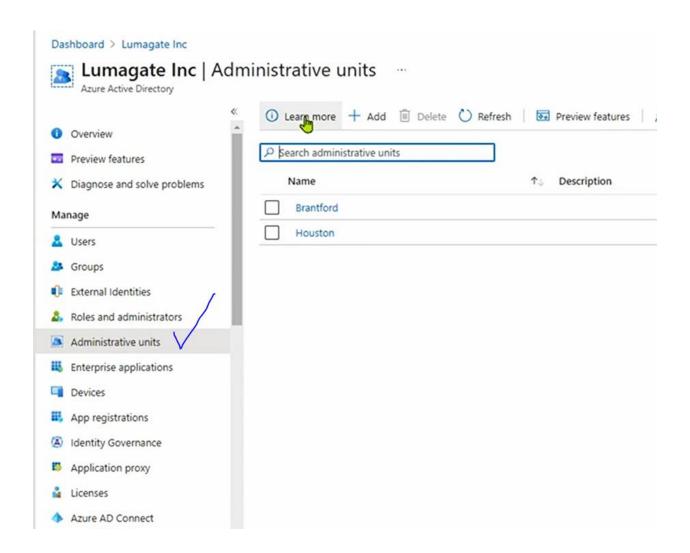
Phases of Adoptions

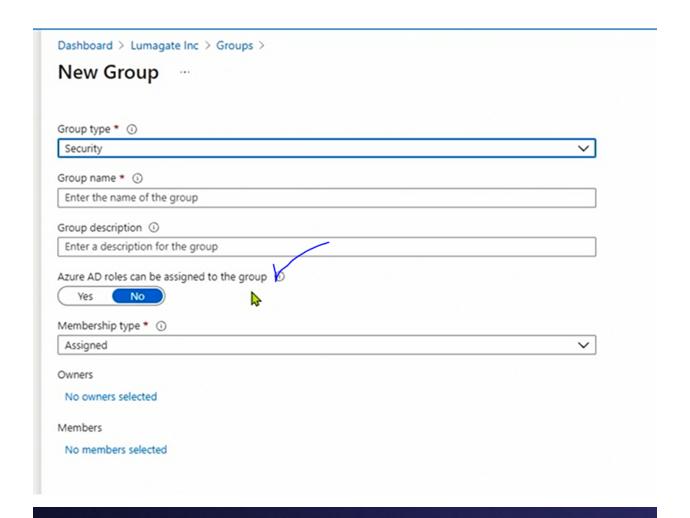


In most organizations, use of administrative units will evolve over time.

Supported Roles

Members of Global Administrator or Privileged Role Administrator roles can create AUs, add or remove members, and delegate to IT staff.





Familiarize yourself with administrative units for delegation, and check documentation for the latest supported scenarios.

1.5 Quiz Question 1 of 5 Administrative units in Azure AD can contain users, groups, and devices. FALSE Correct Administrative units can contain only users and groups. TRUE Question 2 of 5 Whenever possible, Microsoft recommends using which type of managed identity? system-assigned Correct Because a system-assigned identity eliminates need for managing password and identity lifecycle, it is the preferred option. app registration user-assigned service principal Question 3 of 5 You can create new users in Azure AD with the Create-AzureADUser cmdlet. TRUE

This is false. The New-AzureADUser cmdlet is used to create new users in Azure AD.

√ FALSE

Correct

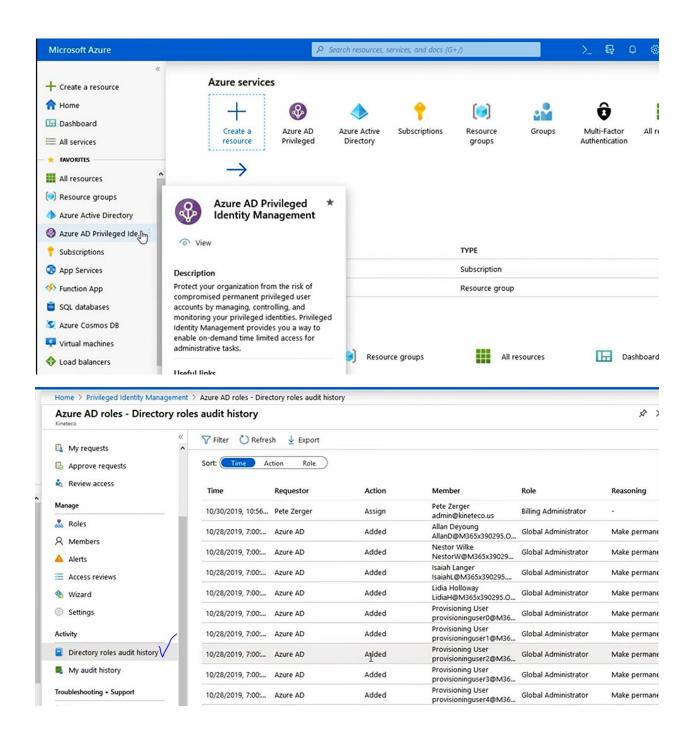
Question 4 of 5 The object for external users is created in your Azure AD tenant appears
after the user accepts the invitation Correct The object for the external user is fully created in your directory once they accept your invitation for access.
after you send the invitation to the user Incorrect
after the external user accesses a resource

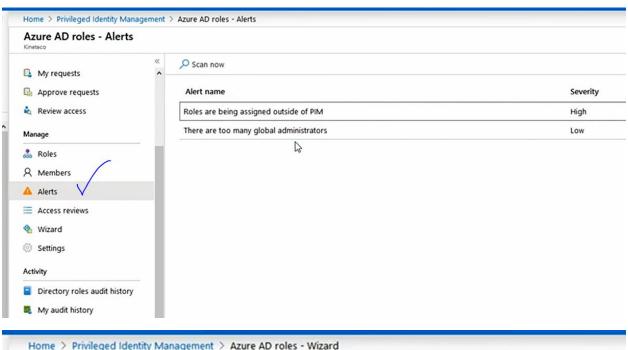
Question 5 of 5

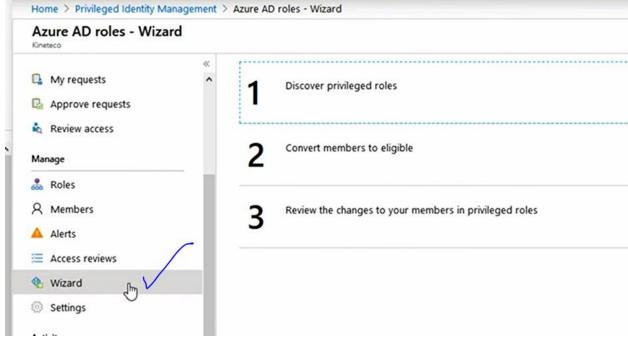
Security Groups and Office 365 groups can both be used to secure Azure resources.

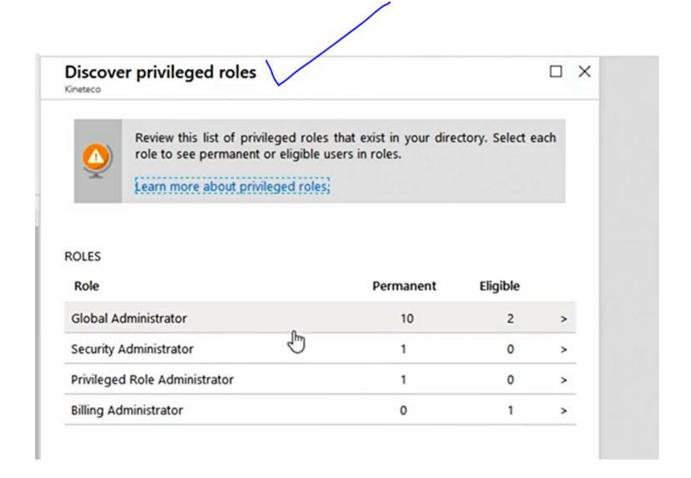
TRUE
 Correct
 Office 365 groups can be used to secure resources, just like Security groups. Office 365 also include additional functionality.

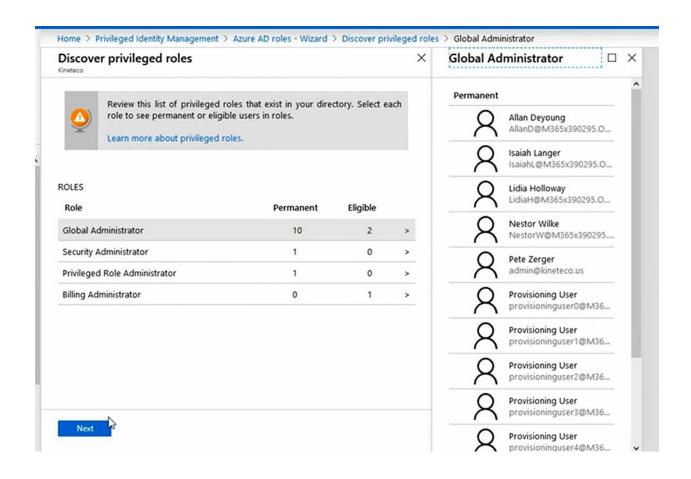
- 2. Manage Secure Access by Using Azure AD
- 2.1 Privileged access for Privileged Identity Management

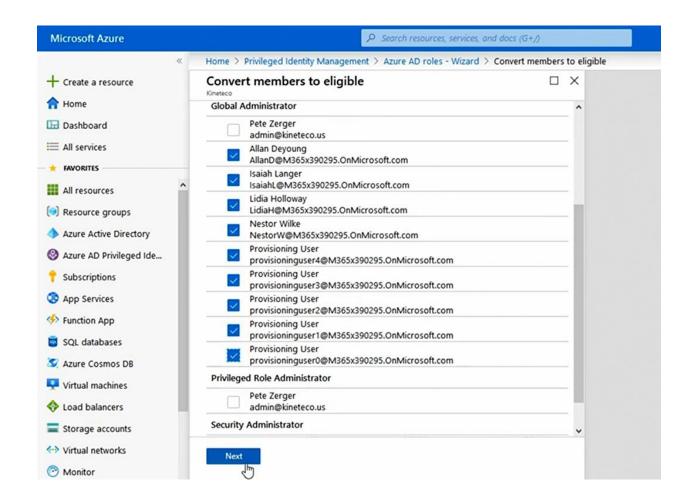


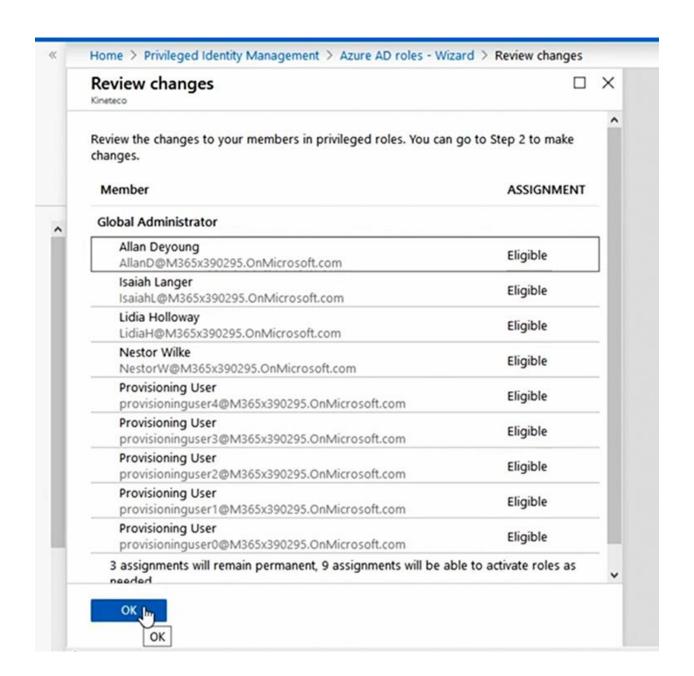


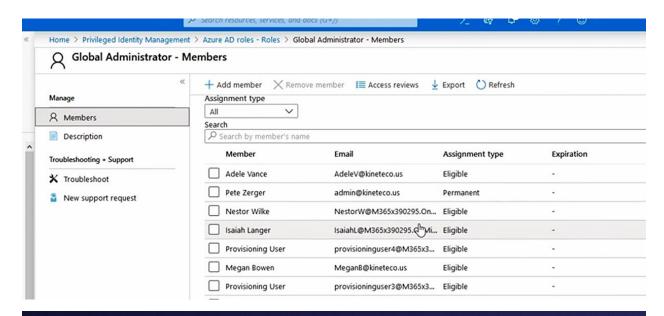








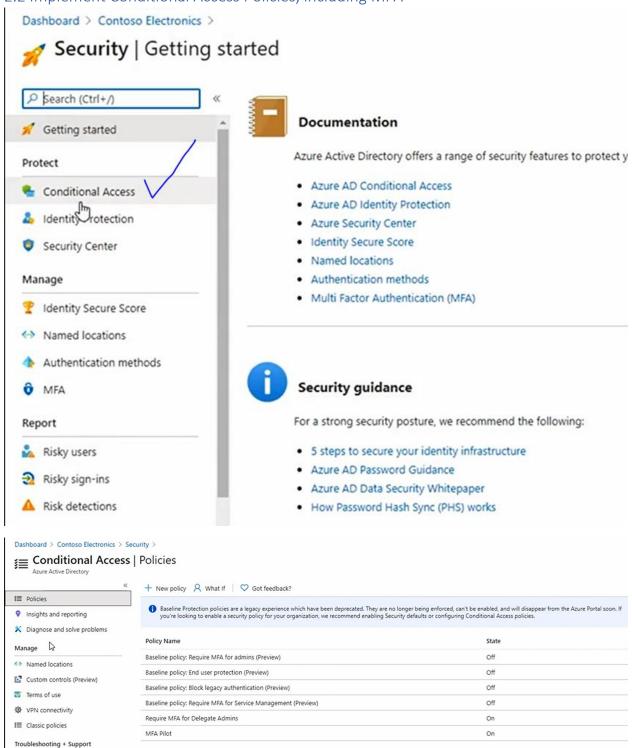


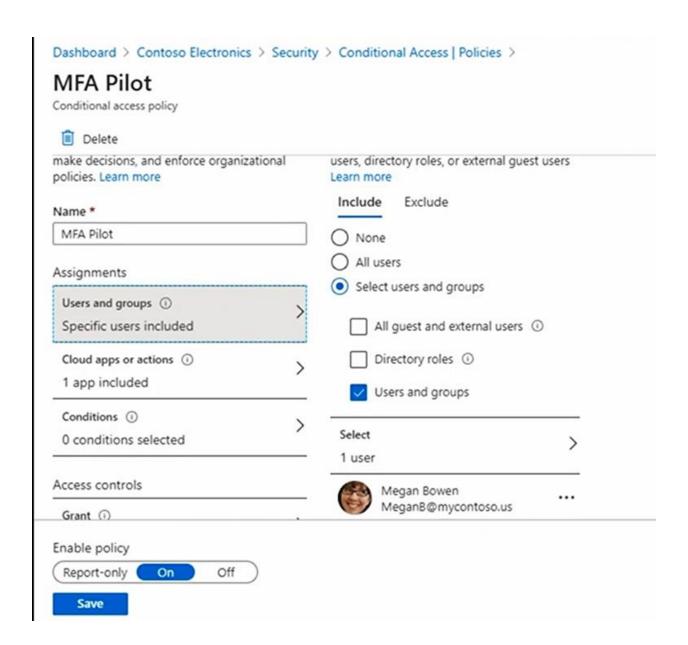


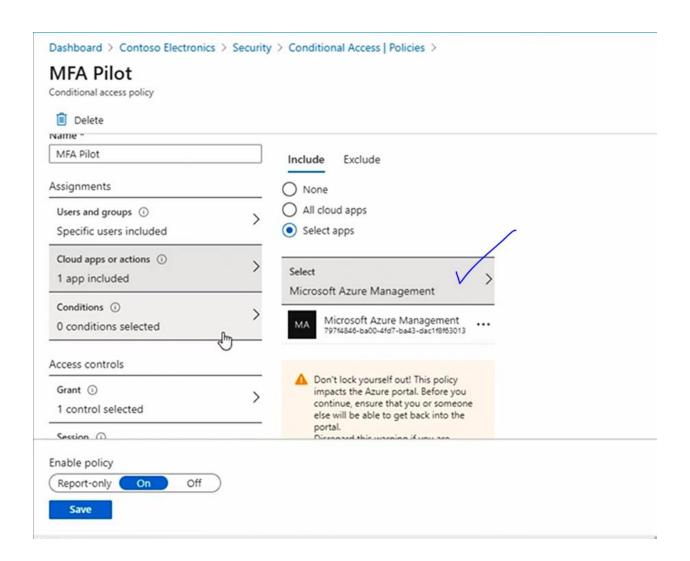
There is no substitute for hands-on experience with Privileged Identity Management.

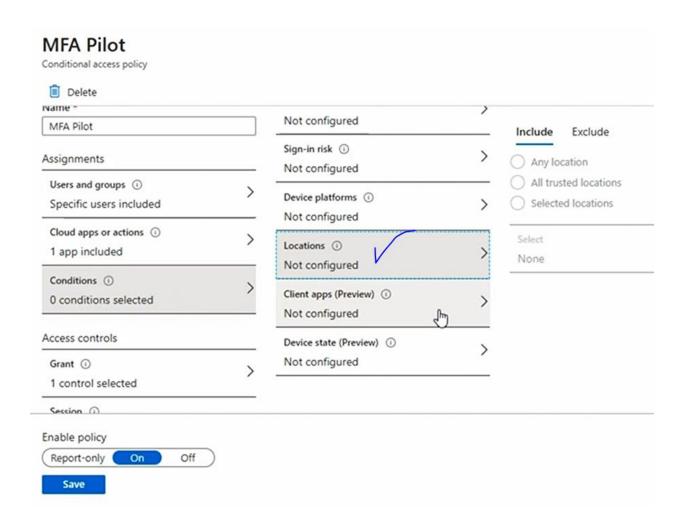
2.2 Implement Conditional Access Policies, including MFA

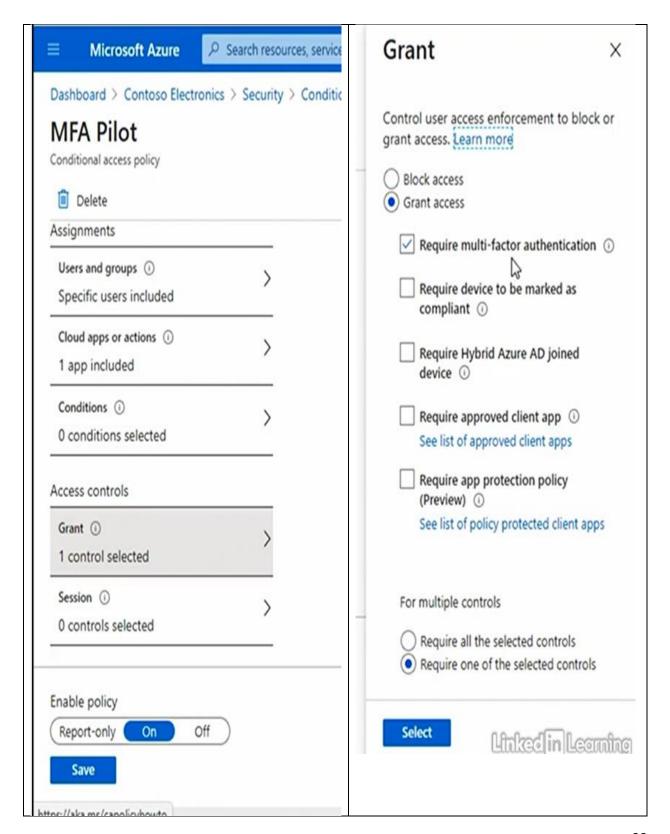
New support request

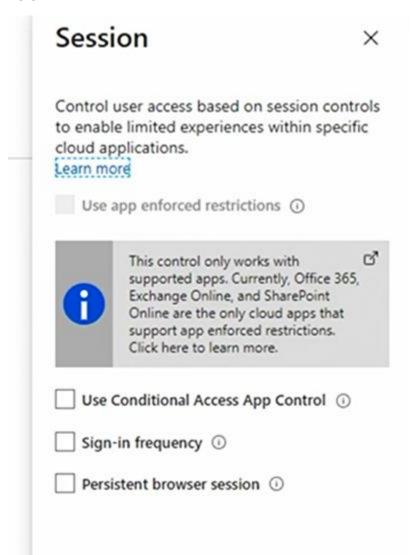












Exam Tip

Know Azure AD Conditional Access well.

Privileged Identity Management

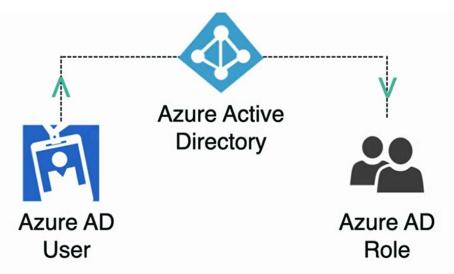
Simplifies management of privileged access



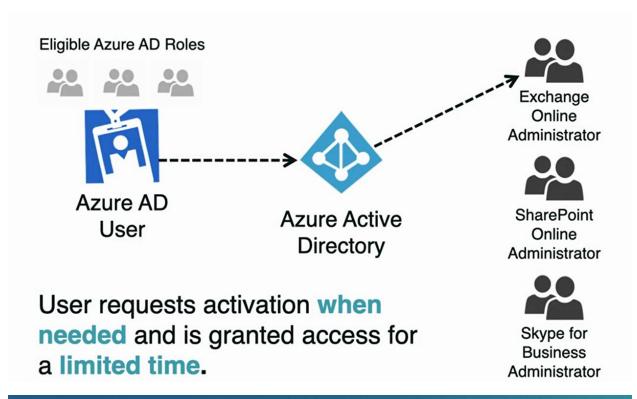
Just-in-Time (JIT) Access



Just Enough Access (JEA)



Activate the role when you need to perform privileged actions ... for a limited time.



Enabling Azure AD PIM

You'll use the Azure AD PIM app in the Azure portal to request role activation...



Even if operating in another portal



Or using PowerShell for bulk admin tasks

Activation Requirements

There can be multiple requirements for your activation request to succeed:



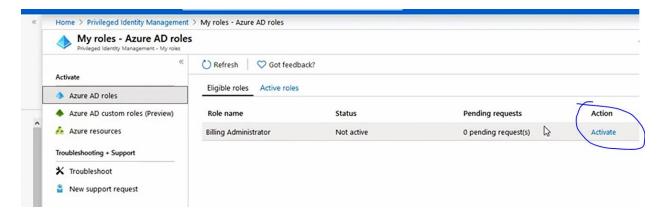
Some roles require multi-factor authentication.

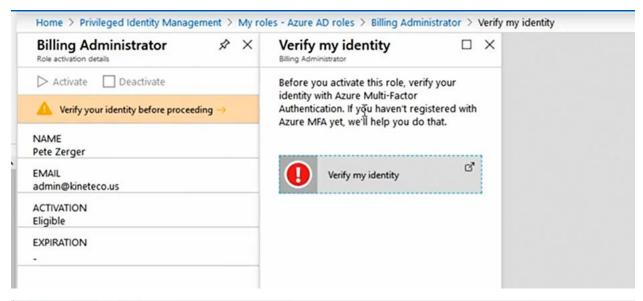


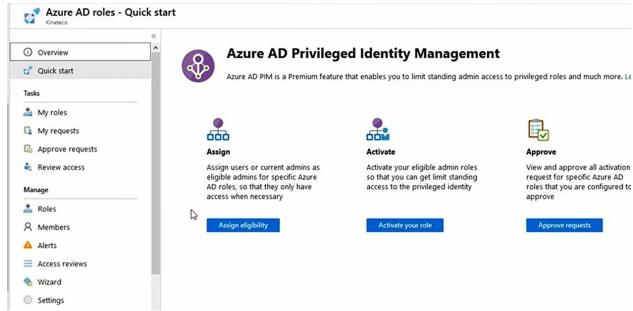
All require reason for activation request.

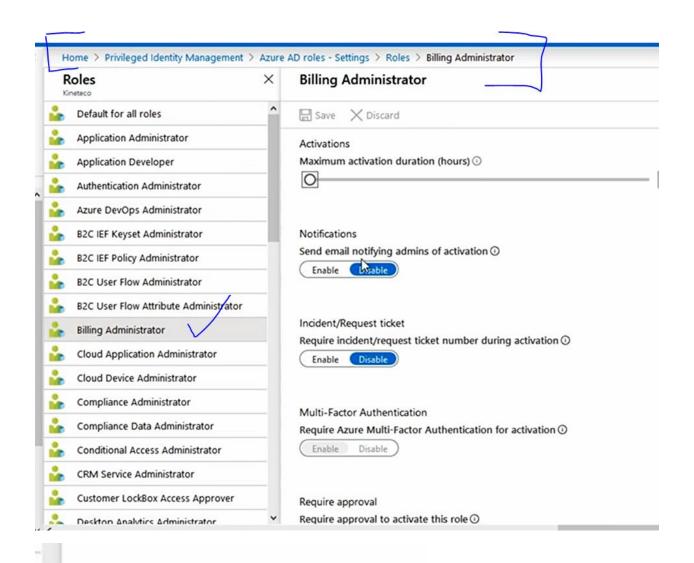


Some roles require a help desk ticket number.









Require approval
Require approval to activate this role ①
Enable Risable

For the Exam

Explore Privileged Identity Management before you take the exam.

2.4 Configure Azure AD Identity Protection

Passwordless Authentication Options

Azure includes three passwordless authentication options that integrate with Azure Active Directory (Azure AD):

Windows Hello for Business

Biometric and PIN credentials that are directly tied to the user's PC, which prevents access from anyone other than the owner

Passwordless Authentication Options

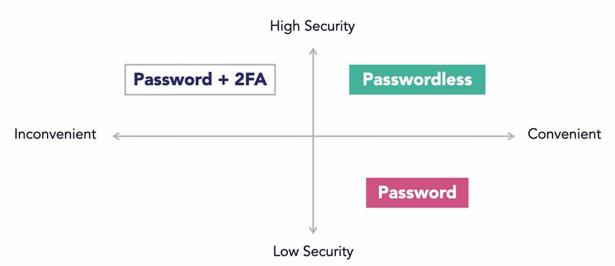
Microsoft Authenticator app

Allows your employee's phone to become a passwordless authentication method, widely used as an MFA option but works for passwordless also

FIDO2 (Fast IDentity Online) security keys

Typically USB devices but could also use Bluetooth or NFC; great option in sensitive scenarios or when mobile (Authenticator app) is not an option

Relative Security of Authentication Options

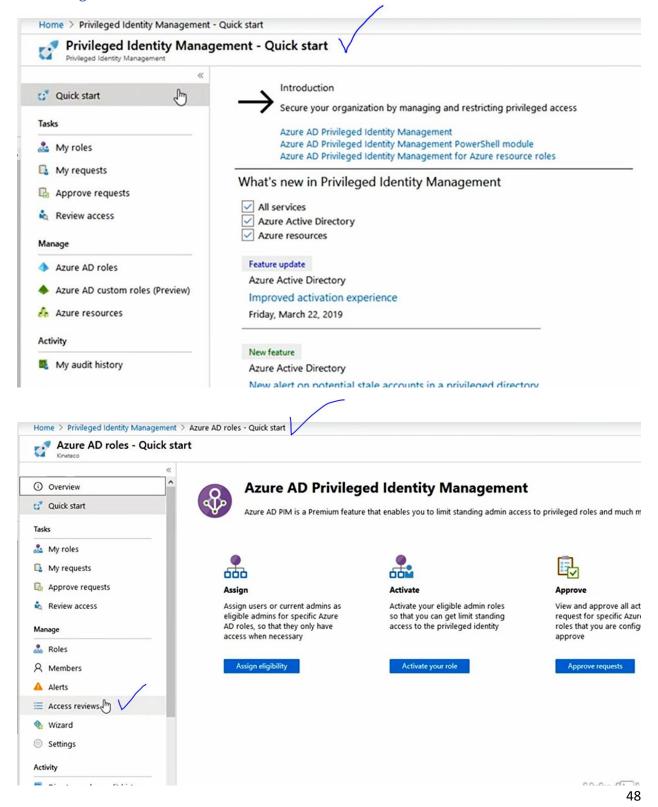




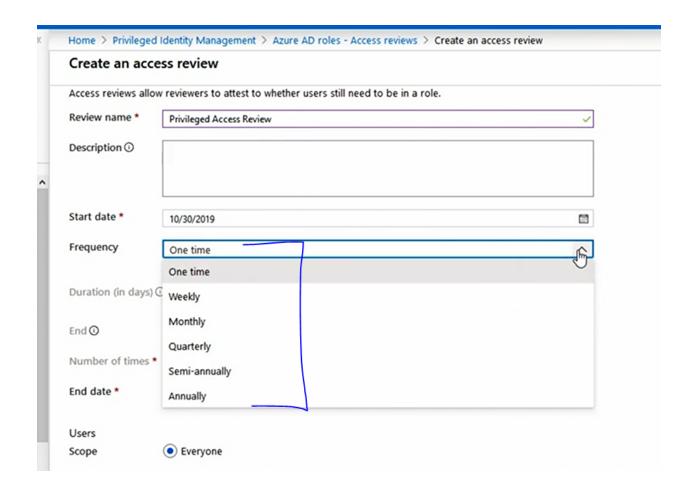
Use the following table to choose which method will support your requirements and users.

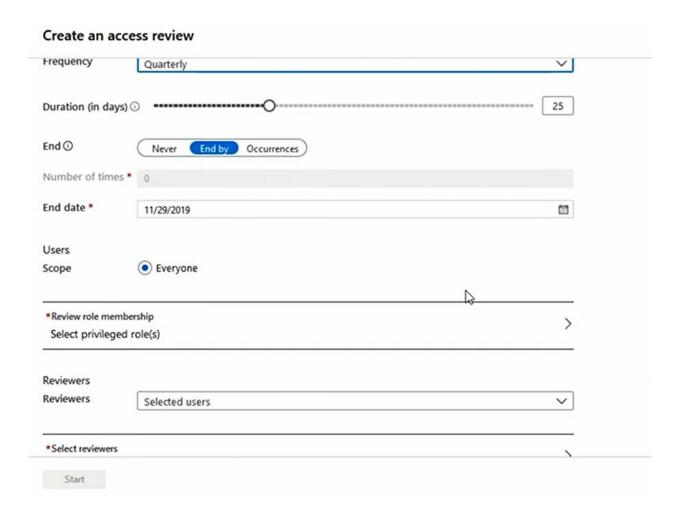
Persona	Scenario	Environment	Passwordless technology
Admin	Secure access to a	Assigned	Windows Hello for
	device for	Windows 10	Business and/or FIDO2
	management tasks	device	security key
Admin	Management tasks on	Mobile or non-	Passwordless sign-in with
	non-Windows devices	windows device	the Microsoft
			Authenticator app
nformation	Productivity work	Assigned	Windows Hello for
worker		Windows 10	Business and/or FIDO2
		device	security key
Information	Productivity work	Mobile or non-	Passwordless sign-in with
worker		windows device	the Microsoft
			Authenticator app
Frontline	Kiosks in a factory,	Shared Windows	FIDO2 Security keys
worker	plant, retail, or data	10 devices	
	entry		

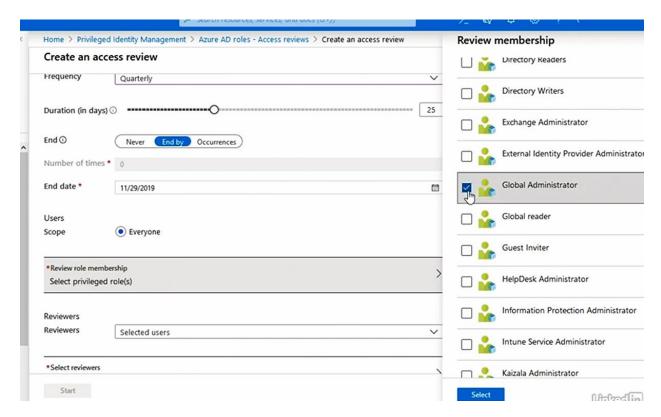
3.5 Configure access Reviews



https://seorod-my.sharepoint.com/personal/seo_seorod_net/Documents/2022 Data/Seo Action 2022_Shared/Microsoft Azure Security Technologies (AZ-500) Cert Prep - 1 Manage Identity and Access.docx

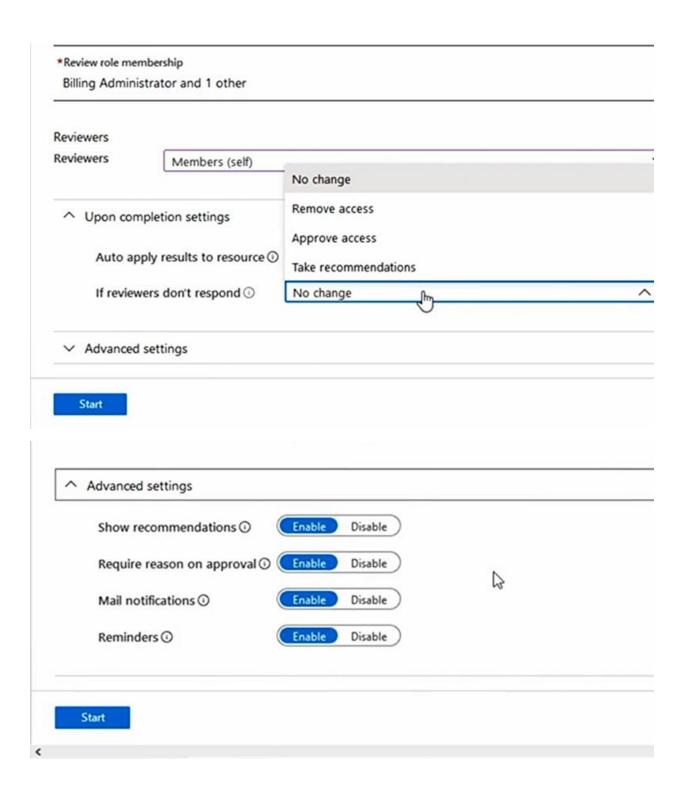


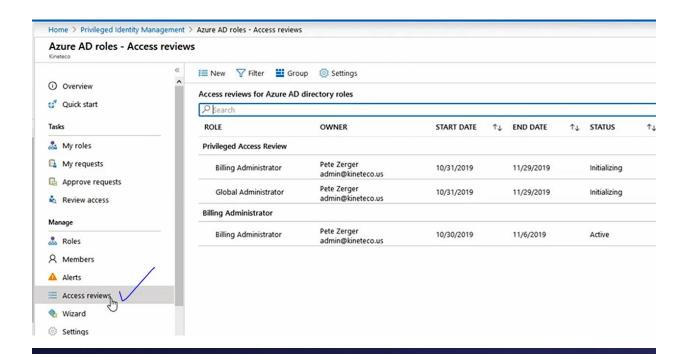




Pick all the roles you want to review.







Recommendation

Walk through the steps of PIM access review to learn the configuration options.

3.6 Quiz

Question 1 of 5

You can configure access reviews in Privileged Identity Management to be self-completed by the eligible members of the privileged roles.

✓ TRUE

Correct

Yes, you can assign designated reviewers, owners, or eligible role members.

FALSE

Question 2	of 5
You can a	ctivate an eligible privileged identity profile
in the	properties of your Office 365 user profile
via the	e Azure Privileged Identity app in the Azure portal.
This is	correct. Activating a profile is performed within the Azure AD PIM app in the Azure porta
all of t	these answers
ovia the	e Microsoft Authenticator App
Question 3	3 of 5
	of 5 Privileged Identity Management (PIM) supports which of the following features when uest to activate a privileged identity profile?
Azure AD users req	Privileged Identity Management (PIM) supports which of the following features when uest to activate a privileged identity profile? these answers
Azure AE users req	Privileged Identity Management (PIM) supports which of the following features when uest to activate a privileged identity profile? these answers
Azure AD users req all of Corre Azure	Privileged Identity Management (PIM) supports which of the following features when uest to activate a privileged identity profile? These answers
Azure AD users required all of Correct Azure	Privileged Identity Management (PIM) supports which of the following features when uest to activate a privileged identity profile? these answers ect and a privileged Identity Management supports all three of these options, alone or in any combination.

Question 4 of 5 Microsoft Azure AD Identity Protection evaluates risk associated with
 users and sign-ins Correct Azure AD Identity Protection evaluates risk associated to users and sign-in attempts.
users
users and devices
users, sign-ins, and devices. Incorrect Azure AD Identity Protection does not evaluate devices.
Question 5 of 5 You can configure access reviews in Privileged Identity Management to be self-completed by the eligible members of the privileged roles
FALSE
 TRUE Correct Yes, you can assign designated reviewers, owners, or eligible role members.

References

https://www.linkedin.com/learning/instructors/pete-zerger?u=86261762