



AZ-500^{Q&As}

Microsoft Azure Security Technologies

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**QUESTION 1**

You have an Azure subscription that contains the resources shown in the following Table.

| Name | Type |
|----------|-----------------|
| VM1 | Virtual machine |
| VNET1 | Virtual network |
| storage1 | Storage account |
| Vault1 | Key vault |

You plan to enable Microsoft Defender for Cloud for the subscription. Which resources can be protected by using Microsoft Defender for Cloud?

- A. VM1, VNET1, and storage1 only
- B. VM1, storage1, and Vault1 only
- C. VM1.VNET1, storage1, and Vault1
- D. VM1 and storage1 only
- E. VM1 and VNET only

Correct Answer: C

QUESTION 2

You are troubleshooting a security issue for an Azure Storage account.

You enable the diagnostic logs for the storage account.

What should you use to retrieve the diagnostics logs?

- A. Azure Security Center
- B. Azure Monitor
- C. the Security admin center
- D. Azure Storage Explorer

Correct Answer: D

Reference: <https://docs.microsoft.com/en-us/azure/storage/blobs/monitor-blob-storage?tabs=azure-portal>

**QUESTION 3****HOTSPOT**

You have an Azure subscription that contains a user named Admin1 and a resource group named RG1.

In Azure Monitor, you create the alert rules shown in the following table.

| Name | Resource | Condition |
|-------|--------------------|---|
| Rule1 | RG1 | All security operations |
| Rule2 | RG1 | All administrative operations |
| Rule3 | Azure subscription | All security operations by Admin1 |
| Rule4 | Azure subscription | All administrative operations by Admin1 |

Admin1 performs the following actions on RG1:

1.

Adds a virtual network named VNET1

2.

Adds a Delete lock named Lock1

Which rules will trigger an alert as a result of the actions of Admin1? To answer, select the appropriate options in the answer area.

NOTE: Each correct selection is worth one point.

Hot Area:



Adding VNET1:

| |
|---------------------------------------|
| |
| Rule2 only |
| Rule4 only |
| Rule2 and Rule4 only |
| Rule3 and Rule4 only |
| Rule1, Rule2, Rule3, and Rule4 |

Adding Lock1:

| |
|---------------------------------------|
| |
| Rule2 only |
| Rule4 only |
| Rule2 and Rule4 only |
| Rule3 and Rule4 only |
| Rule1, Rule2, Rule3, and Rule4 |

Correct Answer:



Adding VNET1:

| |
|--------------------------------|
| |
| Rule2 only |
| Rule4 only |
| Rule2 and Rule4 only |
| Rule3 and Rule4 only |
| Rule1, Rule2, Rule3, and Rule4 |

Adding Lock1:

| |
|--------------------------------|
| |
| Rule2 only |
| Rule4 only |
| Rule2 and Rule4 only |
| Rule3 and Rule4 only |
| Rule1, Rule2, Rule3, and Rule4 |

QUESTION 4

Note: This question is part of a series of questions that present the same scenario. Each question in the series contains a unique solution that might meet the stated goals. Some question sets might have more than one correct solution, while

others might not have a correct solution.

After you answer a question in this section, you will NOT be able to return to it. As a result, these questions will not appear in the review screen.

You use Azure Security Center for the centralized policy management of three Azure subscriptions.



You use several policy definitions to manage the security of the subscriptions.

You need to deploy the policy definitions as a group to all three subscriptions.

Solution: You create a policy initiative and assignments that are scoped to resource groups.

Does this meet the goal?

A. Yes

B. No

Correct Answer: B

Instead use a management group.

Management groups in Microsoft Azure solve the problem of needing to impose governance policy on more than one Azure subscription simultaneously.

Reference:

<https://4sysops.com/archives/apply-governance-policy-to-multiple-azure-subscriptions-with-management-groups/>

QUESTION 5

HOTSPOT

You have an Azure AD tenant named contoso.com that contains the users shown in the following table.

| Name | Role |
|-------|----------------------------|
| User1 | Application administrator |
| User2 | Application developer |
| User3 | Azure DevOps administrator |
| User4 | Security operator |

You add enterprise applications to contoso.com as shown in the following table.

| Name | Owner | User and groups |
|------|-------|-----------------|
| App1 | User3 | User4 |
| App2 | User4 | User3 |



You need to identify which users can grant admin consent for App1 and App2.

Which users should you identify for each application? To answer, select the appropriate options in the answer area.

NOTE: Each correct selection is worth one point.

Hot Area:

Answer Area

App1:

| | |
|--------------------------------|---|
| | ▼ |
| User1 only | |
| User1 and User2 only | |
| User1 and User3 only | |
| User1, User2 and User3 only | |
| User1, User2, User3, and User4 | |

App2:

| | |
|--------------------------------|---|
| | ▼ |
| User1 only | |
| User1 and User2 only | |
| User1 and User4 only | |
| User1, User2 and User4 only | |
| User1, User2, User3, and User4 | |

Correct Answer:



Answer Area

App1:

| | |
|--------------------------------|---|
| | ▼ |
| User1 only | |
| User1 and User2 only | |
| User1 and User3 only | |
| User1, User2 and User3 only | |
| User1, User2, User3, and User4 | |

App2:

| | |
|--------------------------------|---|
| | ▼ |
| User1 only | |
| User1 and User2 only | |
| User1 and User4 only | |
| User1, User2 and User4 only | |
| User1, User2, User3, and User4 | |

QUESTION 6

You have a hybrid configuration of Azure Active Directory (Azure AD). You have an Azure SQL Database instance that is configured to support Azure AD authentication.

Database developers must connect to the database instance and authenticate by using their on-premises Active Directory account.

You need to ensure that developers can connect to the instance by using Microsoft SQL Server Management Studio. The solution must minimize authentication prompts.

Which authentication method should you recommend?

- A. Active Directory - Password
- B. Active Directory - Universal with MFA support



C. SQL Server Authentication

D. Active Directory - Integrated

Correct Answer: D

Use Active Directory password authentication when connecting with an Azure AD principal name using the Azure AD managed domain.

Use this method to authenticate to SQL DB/DW with Azure AD for native or federated Azure AD users. A native user is one explicitly created in Azure AD and being authenticated using user name and password, while a federated user is a Windows user whose domain is federated with Azure AD. The latter method (using user and password) can be used when a user wants to use their windows credential, but their local machine is not joined with the domain (for example, using a remote access). In this case, a Windows user can indicate their domain account and password and can authenticate to SQL DB/DW using federated credentials.

Incorrect Answers:

D: Use Active Directory integrated authentication if you are logged in to Windows using your Azure Active Directory credentials from a federated domain.

References: <https://docs.microsoft.com/en-us/azure/sql-database/sql-database-aad-authentication-configure>

QUESTION 7

You have an Azure subscription that contains the resources shown in the following table.

| Name | Type |
|----------|-----------------|
| storage1 | Storage account |
| Vault1 | Azure Key Vault |
| Vault2 | Azure Key Vault |

You plan to deploy the virtual machines shown in the following table.

| Name | Role |
|------|---|
| VM1 | <ul style="list-style-type: none">• Storage Blob Data Reader for storage1• Key Vault Reader for Vault1 |
| VM2 | <ul style="list-style-type: none">• Storage Blob Data Reader for storage1• Key Vault Reader for Vault1 |
| VM3 | <ul style="list-style-type: none">• Storage Blob Data Reader for storage1• Key Vault Reader for Vault1• Key Vault Reader for Vault2 |
| VM4 | <ul style="list-style-type: none">• Storage Blob Data Reader for storage1• Key Vault Reader for Vault1• Key Vault Reader for Vault2 |



You need to assign managed identities to the virtual machines. The solution must meet the following requirements:

1.

Assign each virtual machine the required roles.

2.

Use the principle of least privilege.

What is the minimum number of managed identities required?

A. 1

B. 2

C. 3

D. 4

Correct Answer: B

We have two different sets of required permissions. VM1 and VM2 have the same permission requirements. VM3 and VM4 have the same permission requirements.

A user-assigned managed identity can be assigned to one or many resources. By using user-assigned managed identities, we can create just two managed identities: one with the permission requirements for VM1 and VM2 and the other with the permission requirements for VM3 and VM4.

Reference: <https://docs.microsoft.com/en-us/azure/active-directory/managed-identities-azure-resources/overview>

QUESTION 8

DRAG DROP

You need to deploy AKS1 to meet the platform protection requirements.

Which four actions should you perform in sequence? To answer, move the appropriate actions from the list of actions to the answer area and arrange them in the correct order.

NOTE: More than one order of answer choices is correct. You will receive credit for any of the correct orders you select.

Select and Place:



Actions

- Deploy an AKS cluster.
- Create a client application.
- Create a server application.
- Create an RBAC binding.
- Create a custom RBAC role.

Answer Area

-
-
-
-

Correct Answer:

Actions

-
-
-
-
- Create a custom RBAC role.

Answer Area

- Create a server application.
- Create a client application.
- Deploy an AKS cluster.
- Create an RBAC binding.

Scenario: Azure AD users must be to authenticate to AKS1 by using their Azure AD credentials.

Litewire plans to deploy AKS1, which is a managed AKS (Azure Kubernetes Services) cluster.

Step 1: Create a server application

To provide Azure AD authentication for an AKS cluster, two Azure AD applications are created. The first application is a server component that provides user authentication.



Step 2: Create a client application

The second application is a client component that's used when you're prompted by the CLI for authentication. This client application uses the server application for the actual authentication of the credentials provided by the client.

Step 3: Deploy an AKS cluster.

Use the az group create command to create a resource group for the AKS cluster.

Use the az aks create command to deploy the AKS cluster.

Step 4: Create an RBAC binding.

Before you use an Azure Active Directory account with an AKS cluster, you must create role-binding or cluster role-binding. Roles define the permissions to grant, and bindings apply them to desired users. These assignments can be applied

to a given namespace, or across the entire cluster.

Reference:

<https://docs.microsoft.com/en-us/azure/aks/azure-ad-integration>

QUESTION 9

Note: The question is included in a number of questions that depicts the identical set-up. However, every question has a distinctive result. Establish if the solution satisfies the requirements.

Your company has an Active Directory forest with a single domain, named weylandindustries.com. They also have an Azure Active Directory (Azure AD) tenant with the same name.

You have been tasked with integrating Active Directory and the Azure AD tenant. You intend to deploy Azure AD Connect.

Your strategy for the integration must make sure that password policies and user logon limitations affect user accounts that are synced to the Azure AD tenant, and that the amount of necessary servers are reduced.

Solution: You recommend the use of federation with Active Directory Federation Services (AD FS).

Does the solution meet the goal?

A. Yes

B. No

Correct Answer: B

A federated authentication system relies on an external trusted system to authenticate users. Some companies want to reuse their existing federated system investment with their Azure AD hybrid identity solution. The maintenance and management of the federated system falls outside the control of Azure AD. It's up to the organization by using the federated system to make sure it's deployed securely and can handle the authentication load.

Reference: <https://docs.microsoft.com/en-us/azure/active-directory/hybrid/how-to-connect-pta>

**QUESTION 10**

After creating a new Azure subscription, you are tasked with making sure that custom alert rules can be created in Azure Security Center.

You have created an Azure Storage account.

Which of the following is the action you should take?

- A. You should make sure that Azure Active Directory (Azure AD) Identity Protection is removed.
- B. You should create a DLP policy.
- C. You should create an Azure Log Analytics workspace.
- D. You should make sure that Security Center has the necessary tier configured.

Correct Answer: C

C: You need write permission in the workspace that you select to store your custom alert.

Reference: <https://docs.microsoft.com/en-us/azure/security-center/security-center-custom-alert>

QUESTION 11

You are configuring an Azure Kubernetes Service (AKS) cluster that will connect to an Azure Container Registry.

You need to use the auto-generated service principal to authenticate to the Azure Container Registry.

What should you create?

- A. an Azure Active Directory (Azure AD) group
- B. an Azure Active Directory (Azure AD) role assignment
- C. an Azure Active Directory (Azure AD) user
- D. a secret in Azure Key Vault

Correct Answer: B

When you create an AKS cluster, Azure also creates a service principal to support cluster operability with other Azure resources. You can use this auto-generated service principal for authentication with an ACR registry. To do so, you need to create an Azure AD role assignment that grants the cluster's service principal access to the container registry.

References: <https://docs.microsoft.com/bs-latn-ba/azure/container-registry/container-registry-auth-aks>

QUESTION 12

You create an Azure subscription.

You need to ensure that you can use Azure Active Directory (Azure AD) Privileged Identity Management (PIM) to secure Azure AD roles.



Which three actions should you perform in sequence? To answer, move the appropriate actions from the list of actions to the answer area and arrange them in the correct order.

Select and Place:

Actions

Verify your identity by using multi-factor authentication (MFA).

Consent to PIM.

Sign up PIM for Azure AD roles.

Discover privileged roles.

Discover resources.

Answer Area



Correct Answer:

Actions

Discover privileged roles.

Discover resources.

Answer Area

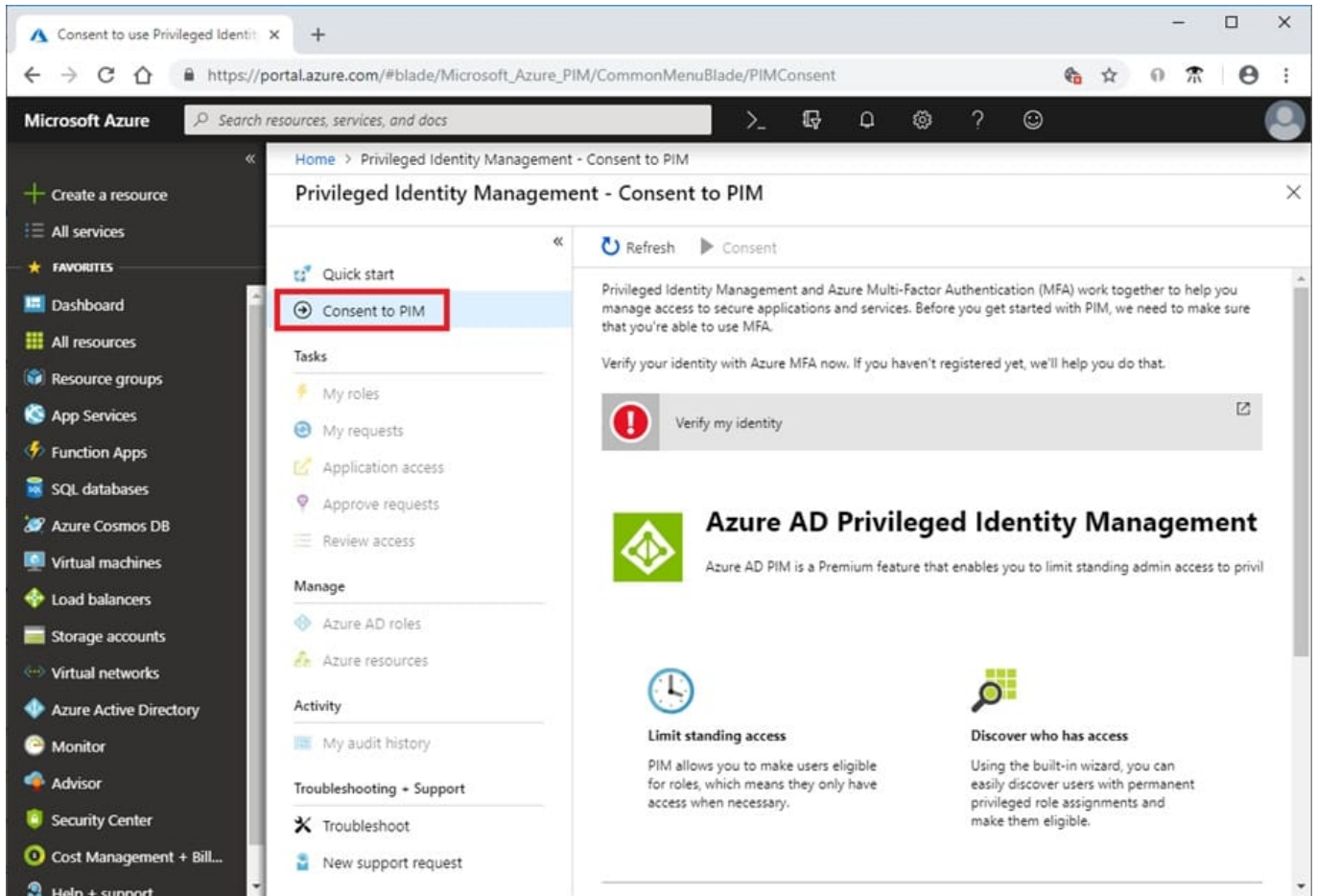
Consent to PIM.

Verify your identity by using multi-factor authentication (MFA).

Sign up PIM for Azure AD roles.



Step 1: Consent to PIM



Step: 2 Verify your identity by using multi-factor authentication (MFA)

Click Verify my identity to verify your identity with Azure MFA. You'll be asked to pick an account.

Step 3: Sign up PIM for Azure AD roles

Once you have enabled PIM for your directory, you'll need to sign up PIM to manage Azure AD roles.

References:

<https://docs.microsoft.com/en-us/azure/active-directory/privileged-identity-management/pim-getting-started>

QUESTION 13

Which Azure service provides a set of version control tools to manage code?

- A. Azure Repos
- B. Azure DevTest Labs
- C. Azure Storage
- D. Azure Cosmos DB

Correct Answer: A



Azure Repos is a set of version control tools that you can use to manage your code.

Incorrect Answers:

B: Azure DevTest Labs creates labs consisting of pre-configured bases or Azure Resource Manager templates. These have all the necessary tools and software that you can use to create environments.

D: Azure Cosmos DB is Microsoft's globally distributed, multi-model database service.

References: <https://docs.microsoft.com/en-us/azure/devops/repos/get-started/what-is-repos?view=azure-devops>

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