



AZ-500^{Q&As}

Microsoft Azure Security Technologies

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QUESTION 1

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 have an Azure environment. You need to create a new Azure virtual machine from a tablet that runs the Android operating system.

Solution: You use the Azure portal.

Does this meet the goal?

A. Yes

B. No

Correct Answer: A

The Azure portal is a web-based, unified console that provides an alternative to command-line tools. With the Azure portal, you can manage your Azure subscription using a graphical user interface. You can build, manage, and monitor everything from simple web apps to complex cloud deployments. Create custom dashboards for an organized view of resources. Configure accessibility options for an optimal experience.

Being web-based, the Azure portal can be run on a browser from a tablet that runs the Android operating system.

References:

<https://docs.microsoft.com/en-us/azure/azure-portal/azure-portal-overview>

QUESTION 2

HOTSPOT

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

Name	Type
Role1	Azure Active Directory (Azure AD)
Role2	Azure subscription

In the Azure portal, you plan to create new custom roles by cloning existing roles. The new roles will be configured as shown in the following table.



Name	Type
Role3	Azure AD
Role4	Azure subscription

Which roles can you clone to create each new role? To answer, select the appropriate options in the answer area.

NOTE: Each correct selection is worth one point.

Hot Area:

Role3:

- Role1 only
- Built-in Azure AD roles only
- Role1 and built-in Azure AD roles only
- Role1, built-in Azure AD roles, and built-in Azure subscription roles

Role4:

- Role2 only
- Built-in Azure AD roles only
- Role2 and built-in Azure subscription roles only
- Role2, built-in Azure subscription roles, and built-in Azure AD roles

Correct Answer:

Role3:

- Role1 only**
- Built-in Azure AD roles only
- Role1 and built-in Azure AD roles only
- Role1, built-in Azure AD roles, and built-in Azure subscription roles

Role4:

- Role2 only
- Built-in Azure AD roles only
- Role2 and built-in Azure subscription roles only**
- Role2, built-in Azure subscription roles, and built-in Azure AD roles

Reference: <https://docs.microsoft.com/en-us/azure/active-directory/roles/custom-create>



<https://docs.microsoft.com/en-us/azure/role-based-access-control/custom-roles-portal>

QUESTION 3

HOTSPOT

You have an Azure subscription named Subscription1 that contains the resources shown in the following table.

Name	Type	Description
EventHub1	Azure Event Hubs	Not applicable
Adf1	Azure Data Factory	Not applicable
NVA1	Network virtual appliance (NVA)	The NVA sends security event messages in the Common Event Format (CEF).

You have an Azure subscription named Subscription2 that contains the following resources:

1.

An Azure Sentinel workspace

2.

An Azure Event Grid instance

You need to ingest the CEF messages from the NVAs to Azure Sentinel.

NOTE: Each correct selection is worth one point.

Hot Area:

Answer Area

Subscription1:

- An Azure Log Analytics agent on a Linux virtual machine
- A Data Factory pipeline
- An Event Hubs namespace
- An Azure Service Bus queue

Subscription2:

- A new Azure Log Analytics workspace
- A new Azure Sentinel data connector
- A new Azure Sentinel playbook
- A new Event Grid resource provider

Correct Answer:



Answer Area

Subscription1:

- An Azure Log Analytics agent on a Linux virtual machine
- A Data Factory pipeline
- An Event Hubs namespace
- An Azure Service Bus queue

Subscription2:

- A new Azure Log Analytics workspace
- A new Azure Sentinel data connector
- A new Azure Sentinel playbook
- A new Event Grid resource provider

QUESTION 4

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 5

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

Name	Region	Subnet
VNET1	West US	Subnet11 and Subnet12
VNET2	West US 2	Subnet21
VNET3	East US	Subnet31

The subscription contains the virtual machines shown in the following table.

Name	Network interface	Connected to
VM1	NIC1	Subnet11
VM2	NIC2	Subnet11
VM3	NIC3	Subnet12
VM4	NIC4	Subnet21
VM5	NIC5	Subnet31

On NIC1, you configure an application security group named ASG1. On which other network interfaces can you configure ASG1?

- A. NIC2 only
- B. NIC2, NIC3, NIC4, and NIC5
- C. NIC2 and NIC3 only
- D. NIC2, NIC3, and NIC4 only

Correct Answer: C

Only network interfaces in VNET1, which consists of Subnet11 and Subnet12, can be configured in ASG1, as all network interfaces assigned to an application security group have to exist in the same virtual network that the first network interface assigned to the application security group is in.

Reference: <https://azure.microsoft.com/es-es/blog/applicationsecuritygroups/>

QUESTION 6

HOTSPOT



You have an Azure subscription that contains an Azure Active Directory (Azure AD) tenant named contoso.com. The tenant contains the users shown in the following table.

Name	Subscription role	Azure AD user role
User1	Owner	None
User2	Contributor	None
User3	Security Admin	None
User4	None	Service administrator

You create a resource group named RG1.

Which users can modify the permissions for RG1 and which users can create virtual networks in RG1? To answer, select the appropriate options in the answer area.

NOTE: Each correct selection is worth one point.

Hot Area:

Answer Area

Users who can modify the permissions for RG1:

<input type="checkbox"/> User1 only
<input type="checkbox"/> User1 and User2 only
<input type="checkbox"/> User1 and User3 only
<input type="checkbox"/> User1, User2 and User3 only
<input type="checkbox"/> User1, User2, User3, and User4

Users who can create virtual networks in RG1:

<input type="checkbox"/> User1 only
<input type="checkbox"/> User1 and User2 only
<input type="checkbox"/> User1 and User3 only
<input type="checkbox"/> User1, User2 and User3 only
<input type="checkbox"/> User1, User2, User3, and User4

Correct Answer:



Answer Area

Users who can modify the permissions for RG1:

User1 only
User1 and User2 only
User1 and User3 only
User1, User2 and User3 only
User1, User2, User3, and User4

Users who can create virtual networks in RG1:

User1 only
User1 and User2 only
User1 and User3 only
User1, User2 and User3 only
User1, User2, User3, and User4

Box 1: Only an owner can change permissions on resources.

Box 2: A Contributor can create/modify/delete anything in the subscription but cannot change permissions.

QUESTION 7

You have an Azure subscription that contains an Azure Files share named share1 and a user named User1. Identity-based authentication is configured for share1.

User1 attempts to access share1 from a Windows 10 device by using SMB.

Which type of token will Azure Files use to authorize the request?

- A. OAuth 2.0
- B. JSON Web Token (JWT)
- C. SAML
- D. Kerberos

Correct Answer: D

Azure Files supports identity-based authentication over Server Message Block (SMB) through two types of Domain Services: on-premises Active Directory Domain Services (AD DS) and Azure Active Directory Domain Services (Azure AD

DS).

Supported scenarios and restrictions include:



Supports Kerberos authentication with AD with AES 256 encryption (recommended) and RC4-HMAC.

Note: Kerberos is an authentication protocol that is used to verify the identity of a user or host.

Reference: <https://docs.microsoft.com/en-us/azure/storage/files/storage-files-identity-auth-active-directory-enable>

QUESTION 8

You have an Azure Container Registry named ContReg1 that contains a container image named image1.

You enable content trust for ContReg1.

After content trust is enabled, you push two images to ContReg1 as shown in the following table.

Name	Details
image2	Image was pushed with client content trust enabled.
image3	Image was pushed with client content trust disabled.

Which images are trusted images?

- A. image1 and image2 only
- B. image2 only
- C. image1, image2, and image3
- D. <https://www.certbus.com/az-500.html>

Correct Answer: B

Azure Container Registry implements Docker's content trust model, enabling pushing and pulling of signed images.

To push a trusted image tag to your container registry, enable content trust and push the image with docker push.

To work with trusted images, both image publishers and consumers need to enable content trust for their Docker clients. As a publisher, you can sign the images you push to a content trust-enabled registry.

Reference:

<https://docs.microsoft.com/en-us/azure/container-registry/container-registry-content-trust>

QUESTION 9

You have an Azure Active Directory (Azure AD) tenant. You have the deleted objects shown in the following table.



Name	Type	Deleted on
Group1	Security group	April 5, 2020
Group2	Office 365 group	April 5, 2020
User1	User	March 25, 2020
User2	User	April 30, 2020

On May 4, 2020, you attempt to restore the deleted objects by using the Azure Active Directory admin center.

Which two objects can you restore? Each correct answer presents a complete solution.

NOTE: Each correct selection is worth one point.

- A. Group1
- B. Group2
- C. User2
- D. User1

Correct Answer: BC

Deleted users and deleted Office 365 groups are available for restore for 30 days. You cannot restore a deleted security group.

Reference: <https://docs.microsoft.com/en-us/azure/active-directory/users-groups-roles/groups-restore-deleted>

QUESTION 10

You plan to deploy Azure container instances.

You have a containerized application that validates credit cards. The application is comprised of two containers: an application container and a validation container.

The application container is monitored by the validation container. The validation container performs security checks by making requests to the application container and waiting for responses after every transaction.

You need to ensure that the application container and the validation container are scheduled to be deployed together. The containers must communicate to each other only on ports that are not externally exposed.

What should you include in the deployment?

- A. application security groups
- B. network security groups (NSGs)
- C. management groups
- D. container groups

Correct Answer: D

Azure Container Instances supports the deployment of multiple containers onto a single host using a container group. A



container group is useful when building an application sidecar for logging, monitoring, or any other configuration where a service needs a second attached process.

Reference: <https://docs.microsoft.com/en-us/azure/container-instances/container-instances-container-groups>

QUESTION 11

HOTSPOT

You have an Azure subscription that contains a web app named App1 and an Azure key vault named Vault1.

You need to configure App1 to store and access the secrets in Vault1.

How should you configure App1? To answer, select the appropriate options in the answer area.

NOTE: Each correct selection is worth one point.

Hot Area:

Configure App1 to authenticate by using a:

Key
Certificate
Passphrase
User-assigned managed identity
System-assigned managed identity

Configure a Key Vault reference for App1 from the:

Extensions blade
General settings tab
TLS/SSL settings blade
Application settings tab

Correct Answer:



Configure App1 to authenticate by using a:

Key
Certificate
Passphrase
User-assigned managed identity
System-assigned managed identity

Configure a Key Vault reference for App1 from the:

Extensions blade
General settings tab
TLS/SSL settings blade
Application settings tab

Reference: <https://docs.microsoft.com/en-us/azure/app-service/overview-managed-identity?tabs=dotnet>

QUESTION 12

You need to meet the technical requirements for the finance department users. Which CAPolicy1 settings should you modify?

- A. Cloud apps or actions
- B. Conditions
- C. Grant
- D. Session

Correct Answer: D

Reference: <https://docs.microsoft.com/en-us/azure/active-directory/conditional-access/howto-conditional-access-session-lifetime>

QUESTION 13

HOTSPOT

You have an Azure subscription that contains an Azure Sentinel workspace.

Azure Sentinel is configured to ingest logs from several Azure workloads. A third-party service management platform is used to manage incidents.

You need to identify which Azure Sentinel components to configure to meet the following requirements:

- 1.



When Azure Sentinel identifies a threat, an incident must be created.

2.

A ticket must be logged in the service management platform when an incident is created in Azure Sentinel.

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

NOTE: Each correct selection is worth one point.

Hot Area:

Answer Area

When Azure Sentinel identifies a threat, an incident must be created:

	▼
Analytics	
Data connectors	
Playbooks	
Workbooks	

A ticket must be logged in the service management platform when an incident is created in Azure Sentinel:

	▼
Analytics	
Data connectors	
Playbooks	
Workbooks	

Correct Answer:



Answer Area

When Azure Sentinel identifies a threat, an incident must be created:

	▼
Analytics	
Data connectors	
Playbooks	
Workbooks	

A ticket must be logged in the service management platform when an incident is created in Azure Sentinel:

	▼
Analytics	
Data connectors	
Playbooks	
Workbooks	

Reference: <https://docs.microsoft.com/en-us/azure/sentinel/create-incidents-from-alerts> <https://docs.microsoft.com/en-us/azure/sentinel/tutorial-respond-threats-playbook>

QUESTION 14

You have 10 virtual machines on a single subnet that has a single network security group (NSG).

You need to log the network traffic to an Azure Storage account.

Which two actions should you perform? Each correct answer presents part of the solution.

NOTE: Each correct selection is worth one point.

- A. Install the Network Performance Monitor solution.
- B. Enable Azure Network Watcher.
- C. Enable diagnostic logging for the NSG.
- D. Enable NSG flow logs.
- E. Create an Azure Log Analytics workspace.

Correct Answer: BD

A network security group (NSG) enables you to filter inbound traffic to, and outbound traffic from, a virtual machine (VM). You can log network traffic that flows through an NSG with Network Watcher's NSG flow log capability. Steps include:

1.

Create a VM with a network security group



2.

Enable Network Watcher and register the Microsoft.Insights provider

3.

Enable a traffic flow log for an NSG, using Network Watcher's NSG flow log capability

4.

Download logged data

5.

View logged data

Reference: <https://docs.microsoft.com/en-us/azure/network-watcher/network-watcher-nsg-flow-logging-portal>

QUESTION 15

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>