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QUESTION 1

You have an Azure subscription that contains several resource groups, including a resource group named RG1. RG1 contains several business-critical resources.

A user named admin1 is assigned the Owner role to the subscription.

You need to prevent admin1 from modifying the resources in RG1. The solution must ensure that admin1 can manage the resources in the other resource groups.

What should you use?

- A. a management group
- B. an Azure policy
- C. a custom role
- D. an Azure blueprint

Correct Answer: C

Role-based access control (RBAC) focuses on user actions at different scopes. You might be added to the contributor role for a resource group, allowing you to make changes to that resource group. Incorrect Answers:

A: If your organization has many subscriptions, you may need a way to efficiently manage access, policies, and compliance for those subscriptions. Azure management groups provide a level of scope above subscriptions.

B: There are a few key differences between Azure Policy and role-based access control (RBAC). Azure Policy focuses on resource properties during deployment and for already existing resources. Azure Policy controls properties such as the types or locations of resources. Unlike RBAC, Azure Policy is a default allow and explicit deny system.

D: Azure Blueprints enables cloud architects and central information technology groups to define a repeatable set of Azure resources that implements and adheres to an organization's standards, patterns, and requirements.

Reference: <https://docs.microsoft.com/en-us/azure/role-based-access-control/overview>

QUESTION 2

HOTSPOT

You have five .NET Core applications that run on 10 Azure virtual machines in the same subscription.

You need to recommend a solution to ensure that the applications can authenticate by using the same Azure Active Directory (Azure AD) identity. The solution must meet the following requirements:

1.

Ensure that the applications can authenticate only when running on the 10 virtual machines.

2.

Minimize administrative effort.

What should you include in the recommendation? To answer, select the appropriate options in the answer area.

Hot Area:

Correct Answer:

Answer Area

To provision the Azure AD identity:

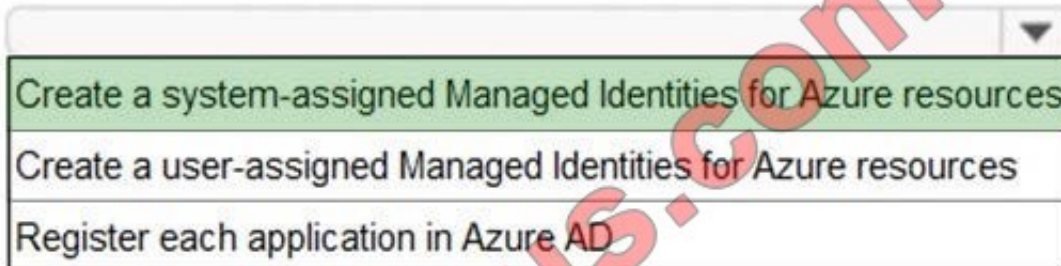
	▼
Create a system-assigned Managed Identities for Azure resources	
Create a user-assigned Managed Identities for Azure resources	
Register each application in Azure AD	

To authenticate, request a token by using:

	▼
An Azure AD v1.0 endpoint	
An Azure AD v2.0 endpoint	
An Azure Instance Metadata Service identity OAuth2 endpoint	

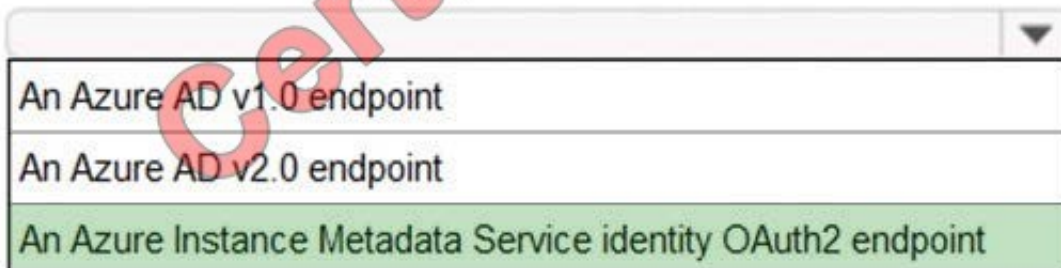
Answer Area

To provision the Azure AD identity:



A screenshot of a dropdown menu with three options. The first option, "Create a system-assigned Managed Identities for Azure resources", is highlighted in green. The second option is "Create a user-assigned Managed Identities for Azure resources" and the third is "Register each application in Azure AD".

To authenticate, request a token by using:



A screenshot of a dropdown menu with three options. The first two options are "An Azure AD v1.0 endpoint" and "An Azure AD v2.0 endpoint". The third option, "An Azure Instance Metadata Service identity OAuth2 endpoint", is highlighted in green.

Box 1: Create a system-assigned Managed Identities for Azure resource

The managed identities for Azure resources feature in Azure Active Directory (Azure AD) feature provides Azure services with an automatically managed identity in Azure AD. You can use the identity to authenticate to any service that

supports Azure AD authentication, including Key Vault, without any credentials in your code.

A system-assigned managed identity is enabled directly on an Azure service instance. When the identity is enabled, Azure creates an identity for the instance in the Azure AD tenant that's trusted by the subscription of the instance. After the

identity is created, the credentials are provisioned onto the instance.

Box 2: An Azure Instance Metadata Service Identity

See step 3 and 5 below.

How a system-assigned managed identity works with an Azure VM

Azure Resource Manager receives a request to enable the system-assigned managed identity on a VM.

Azure Resource Manager creates a service principal in Azure AD for the identity of the VM. The service principal is created in the Azure AD tenant that's trusted by the subscription.

Azure Resource Manager configures the identity on the VM by updating the Azure Instance Metadata Service identity endpoint with the service principal client ID and certificate.

After the VM has an identity, use the service principal information to grant the VM access to Azure resources. To call Azure Resource Manager, use role-based access control (RBAC) in Azure AD to assign the appropriate role to the VM

service principal. To call Key Vault, grant your code access to the specific secret or key in Key Vault.

Your code that's running on the VM can request a token from the Azure Instance Metadata service endpoint, accessible only from within the VM

Reference:

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

QUESTION 3

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 Storage v2 account named Storage1.

You plan to archive data to Storage1.

You need to ensure that the archived data cannot be deleted for five years. The solution must prevent administrators from deleting the data.

Solution: You create a file share and snapshots. Does this meet the goal?

A. Yes

B. No

Correct Answer: B

Instead you could create an Azure Blob storage container, and you configure a legal hold access policy.

References: <https://docs.microsoft.com/en-us/azure/storage/blobs/storage-blob-immutable-storage>

QUESTION 4

Your company provides customer support for multiple Azure subscriptions and third-party hosting providers. You are designing a centralized monitoring solution. The solution must provide the following services:

1.

Collect log and diagnostic data from all the third-party hosting providers into a centralized repository.

2.

Collect log and diagnostic data from all the subscriptions into a centralized repository.

3.

Automatically analyze log data and detect threats.

4.

Provide automatic responses to known events. Which Azure service should you include in the solution?

- A. Azure Sentinel
- B. Azure Log Analytics
- C. Azure Monitor
- D. Azure Application Insights

Correct Answer: D

QUESTION 5

You have 100 Microsoft SQL Server Integration Services (SSIS) packages that are configured to use 10 on-premises SQL Server databases as their destinations.

You plan to migrate the 10 on-premises databases to Azure SQL Database.

You need to recommend a solution to host the SSIS packages in Azure. The solution must ensure that the packages can target the SQL Database instances as their destinations.

What should you include in the recommendation?

- A. SQL Server Migration Assistant (SSMA)
- B. Azure Data Factory
- C. Data Migration Assistant
- D. Azure Data Catalog

Correct Answer: C

QUESTION 6

You are designing a security solution for a company's Azure Active Directory (Azure AD). The company currently uses Azure AD Premium for all employees. Contractors will periodically access the corporate network based on demand.

You must ensure that all employees and contractors are required to log on by using two-factor authentication. The solution must minimize costs.

You need to recommend a solution.

What should you recommend?

- A. Purchase Azure Multi-Factor Authentication licenses for the employees and the contractors
- B. Use the Multi-Factor Authentication provider in Azure and configure the usage model for each authentication type
- C. Use the Multi-Factor Authentication provider in Azure and configure the usage model for each enabled user
- D. Purchase Azure Multi-Factor Authentication licenses for the contractors only

Correct Answer: C

QUESTION 7

HOTSPOT

You need to design a resource governance solution for an Azure subscription. The solution must meet the following requirements:

1.

Ensure that all ExpressRoute resources are created in a resource group named RG1.

2.

Delegate the creation of the ExpressRoute resources to an Azure Active Directory (Azure AD) group named Networking.

3.

Use the principle of least privilege.

What should you include in the solution? To answer, select the appropriate options in the answer area.

NOTE: Each correct selection is worth one point.

Hot Area:

Answer Area

Ensure that all ExpressRoute resources are created in RG1:

- A custom RBAC role assignment at the level of RG1
- A custom RBAC role assignment at the subscription level
- An Azure Blueprints assignment that sets locking mode for the level of RG1
- An Azure Policy assignment at the subscription level that has an exclusion
- Multiple Azure Policy assignments at the resource group level except for RG1

Delegate the creation of the ExpressRoute resources to Networking:

- A custom RBAC role assignment at the level of RG1
- A custom RBAC role assignment at the subscription level
- An Azure Blueprints assignment that sets locking mode for the level of RG1
- An Azure Policy assignment at the subscription level that has an exclusion
- Multiple Azure Policy assignments at the resource group level except for RG1

Correct Answer:

Answer Area

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- A custom RBAC role assignment at the subscription level
- An Azure Blueprints assignment that sets locking mode for the level of RG1
- An Azure Policy assignment at the subscription level that has an exclusion
- Multiple Azure Policy assignments at the resource group level except for RG1

Box 1: An Azure policy assignment at the subscription level that has an exclusion

Box 2: A custom RBAC role assignment at the level of RG1

Azure role-based access control (Azure RBAC) is the authorization system you use to manage access to Azure resources. To grant access, you assign roles to users, groups, service principals, or managed identities at a particular scope.

Reference:

<https://docs.microsoft.com/en-us/azure/governance/policy/tutorials/create-and-manage>

QUESTION 8

HOTSPOT

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

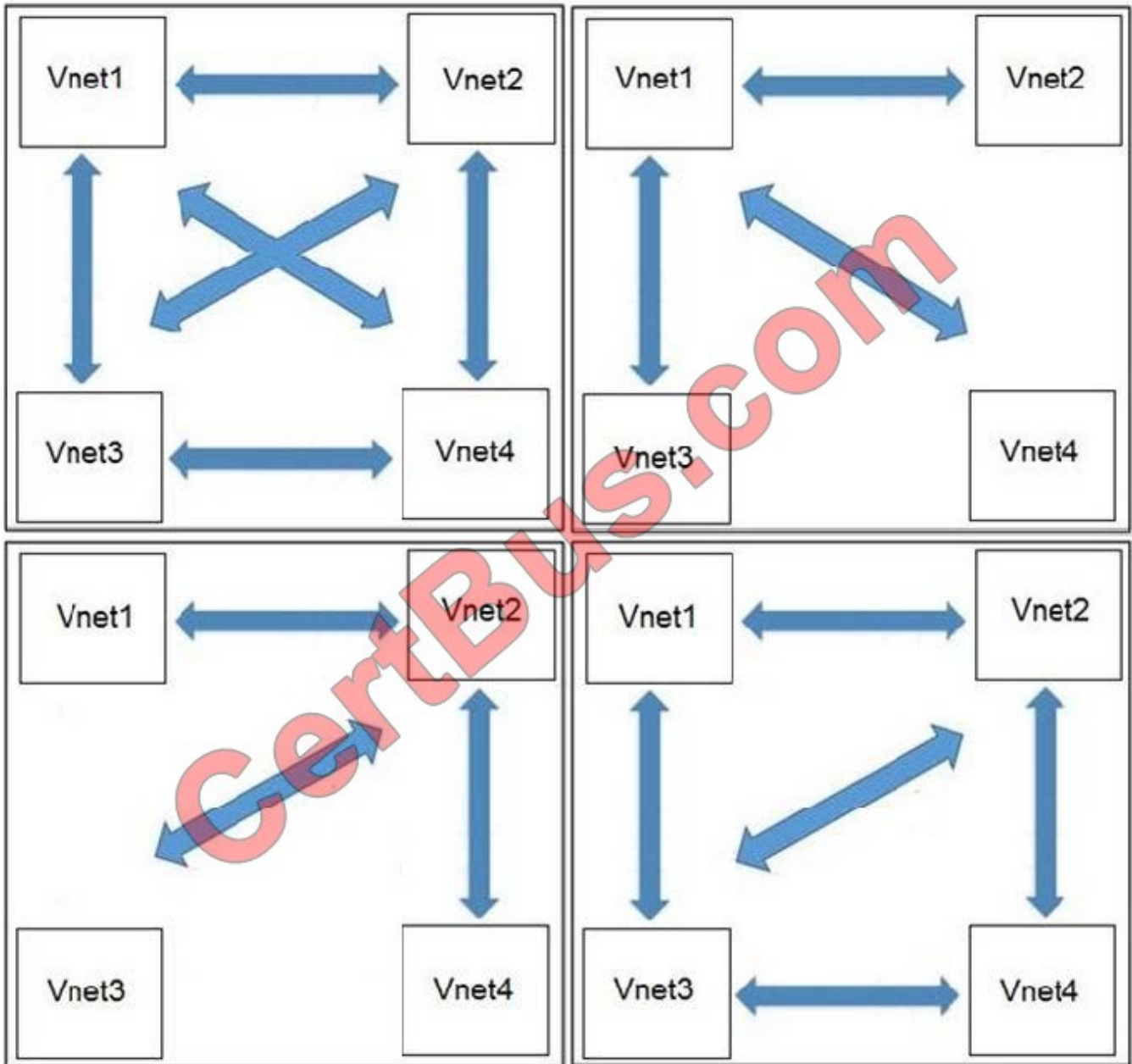
Virtual network name	Subscription name	Virtual network type
Vnet1	Subscription1	Classic mode
Vnet2	Subscription1	Resource Manager
Vnet3	Subscription1	Resource Manager
Vnet4	Subscription2	Resource Manager

You need to recommend a virtual network peering solution to ensure that the resources connected to any other virtual network. The solution must minimize administrative effort. Which virtual network peering topology should you recommend?

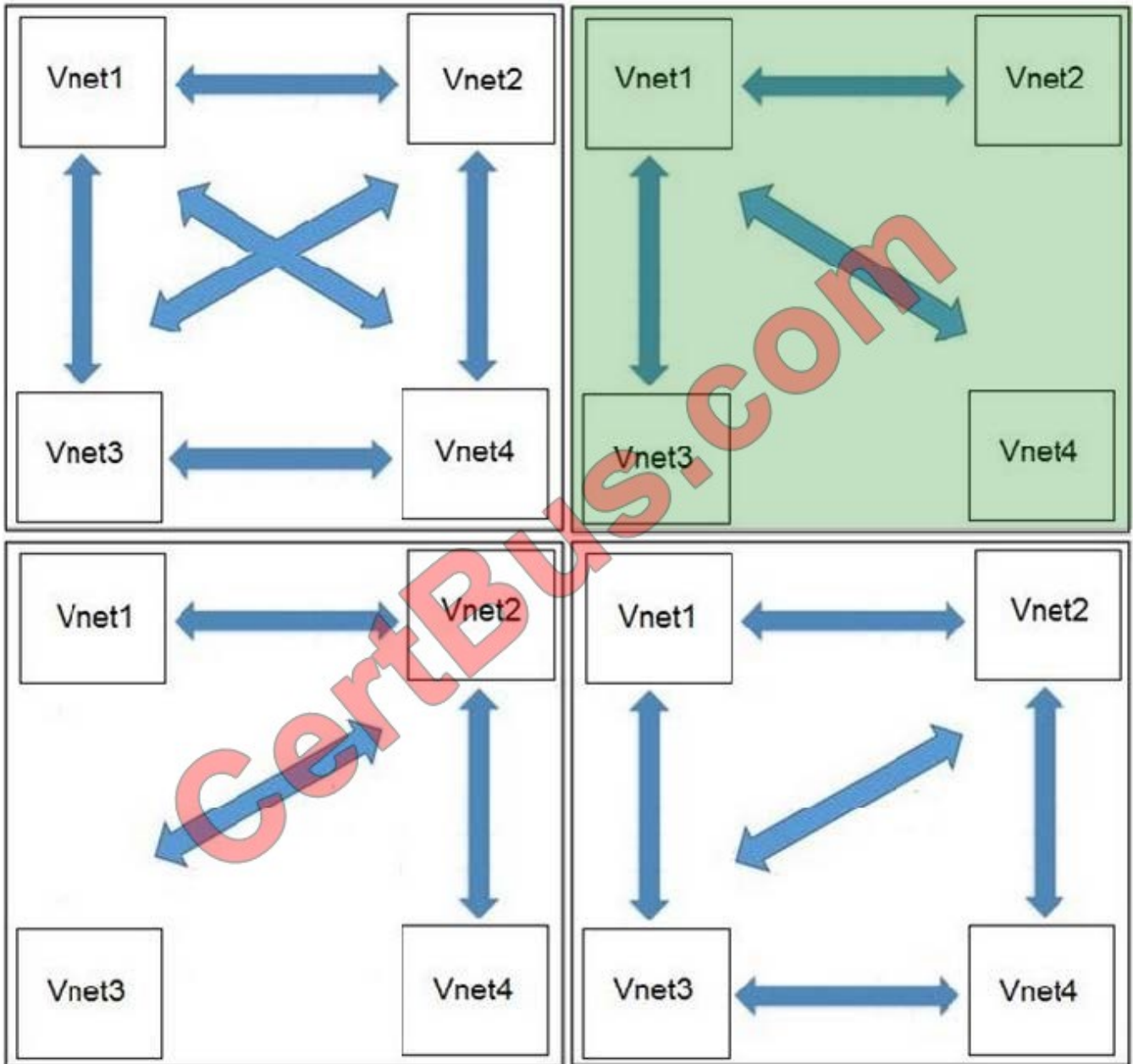
To answer, select the appropriate topology in the answer area.

NOTE: Each correct selection is worth one point.

Hot Area:



Correct Answer:



QUESTION 9

You manage a solution in Azure.

You must collect usage data including MAC addresses from all devices on the network.

You need to recommend a monitoring solution.

What should you recommend?

- A. Activity Log Analytics

- B. Azure Network Security Group Analytics
- C. Network Performance Monitor
- D. Azure Application Gateway Analytics
- E. Azure Wire Data

Correct Answer: B

A network security group (NSG) includes rules that allow or deny traffic to a virtual network subnet, network interface, or both. When you enable diagnostic logging for an NSG, you can log the following categories of information:

Event: Entries are logged for which NSG rules are applied to VMs, based on MAC address. The status for these rules is collected every 60 seconds. Rule counter: Contains entries for how many times each NSG rule is applied to deny or allow traffic.

Reference: <https://docs.microsoft.com/en-us/azure/virtual-network/virtual-network-nsg-manage-log>

QUESTION 10

You need to recommend a solution to generate a monthly report of all the new Azure Resource Manager resource deployment in your subscription. What should you include in the recommendation?

- A. Azure Activity Log
- B. Azure Monitor action groups
- C. Azure Advisor
- D. Azure Monitor metrics

Correct Answer: A

Activity logs are kept for 90 days. You can query for any range of dates, as long as the starting date isn't more than 90 days in the past. Through activity logs, you can determine:

1.
what operations were taken on the resources in your subscription who started the operation
2.
when the operation occurred
3.
the status of the operation
4.
the values of other properties that might help you research the operation

Reference: <https://docs.microsoft.com/en-us/azure/azure-resource-manager/management/view-activity-logs>

QUESTION 11

Your network contains an on-premises Active Directory forest named contoso.com. The forest is synced to an Azure Active Directory (Azure AD) tenant named contoso.com and an Azure AD Domain Services (Azure AD DS) domain named

contoso-aad.com.

You have an Azure Storage account named Storage1 that contains a file share named Share1.

You configure NTFS permissions on Share1. You plan to deploy a virtual machine that will be used by several users to access Share1.

You need to ensure that the users can access Share1.

Which type virtual machine should you deploy?

- A. a virtual machine that runs Windows Server 2016 and is joined to the contoso.com domain
- B. a virtual machine that runs Windows 10 and is joined to the contoso-add.com domain
- C. a virtual machine that runs Windows 10 and is hybrid Azure AD joined to the contoso.com domain
- D. an Azure virtual machine that runs Windows Server 2016 and is joined to the contoso-add.com domain

Correct Answer: D

You join the Windows Server virtual machine to the Azure AD DS-managed domain, here named contoso-aad.com.

Note: Azure Files supports identity-based authentication over SMB (Server Message Block) (preview) through Azure Active Directory (Azure AD) Domain Services. Your domain-joined Windows virtual machines (VMs) can access Azure file

shares using Azure AD credentials.

Incorrect Answers:

B, C: Azure AD authentication over SMB is not supported for Linux VMs for the preview release. Only Windows Server VMs are supported.

Reference:

<https://docs.microsoft.com/en-us/azure/storage/files/storage-files-active-directory-enable#mount-a-file-share-from-a-domain-joined-vm>

QUESTION 12

Note: This question is a part of 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 are designing an Azure solution for a company that wants to move a .NET Core web application from an on-premises data center to Azure. The web application relies on a Microsoft SQL Server 2016 database on Windows Server 2016.

The database server will not move to Azure.

A separate networking team is responsible for configuring network permissions.

The company uses Azure ExpressRoute and has an ExpressRoute gateway connected to an Azure virtual network named VNET1.

You need to recommend a solution for deploying the web application.

Solution: Deploy the web application by using an Azure Kubernetes Service (AKS) container on VNET1.

Does this meet the goal?

A. Yes

B. No

Correct Answer: B

Instead, use VNet Integration.

Note: VNet Integration gives your web app access to resources in your virtual network. VNet Integration is often used to enable access from apps to a databases and web services running in your VNet.

Reference:

<https://docs.microsoft.com/en-us/azure/app-service/web-sites-integrate-with-vnet>

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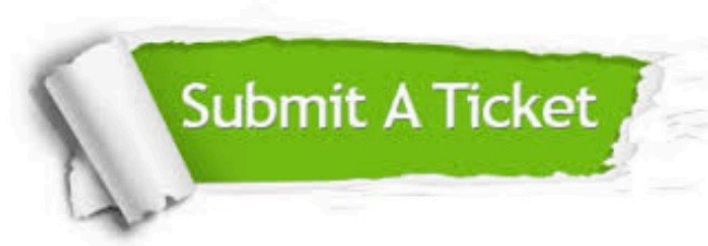
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