Exam Questions AZ-301

Microsoft Azure Architect Design

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NEW QUESTION 1
- (Exam Topic 1)
You need to recommend a strategy for the web tier of WebApp1. The solution must minimize What should
you recommend?

A. Create a runbook that resizes virtual machines automatically to a smaller size outside of business hours.
B. Configure the Scale Up settings for a web app.
C. Deploy a virtual machine scale set that scales out on a 75 percent CPU threshold.
D. Configure the Scale Out settings for a web app.

Answer: D

NEW QUESTION 2
- (Exam Topic 2)
You have an Azure subscription for used for testing and development purposes only. The subscription contains Azure virtual machines that unmanaged, standard
hard disk drives (HDD).
You need to recommend a recovery strategy for the virtual machines if an Azure region fails for a sustained period. The recovery time objective WTO) can be up to
seven days. The solution must minimize costs.
What should you include in the recommendation?

A. Store the disks in a Standard_LRS storage accoun
B. Configure Azure site Recover
C. IF a failure occurs, initiate a manual failure over.
D. Store the disks in a Standard_GRS storage accoun
E. Configure Azure Recover
F. If a failure occurs, initiate a manual failover.
G. Store the disks in a Standrs_LRS storage accoun
H. If a disaster occurs, manually create the virtual machines by used Azure Rsources Mnaager templates.
I. Store the disks in a Standard_GRS storage accoun
J. If a disaster occurs, manually create the virtual machines by Azure Resource Manager templates.

Answer: B

NEW QUESTION 3
- (Exam Topic 2)
You are designing an Azure solution for a company that wants to move a .NET Core web application 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: Solution: Deploy the web application by using an Azure Kubernetes Service (AKS) container on VNET1
Does this meet the goal?

A. Yes
B. No

Answer: B

NEW QUESTION 4
- (Exam Topic 2)
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 with not appear in the review screen.
You need to deploy resources to host a stateless web app in an Azure subscription The solution must meet the following requirements:
• Provide access to the full .NET framework.
• Provide redundancy it an Azure region fails.
• Grant administrators access to the operating system to install custom application dependencies. Solution: You deploy an Azure virtual machine to two Azure
regions, and you create a Traffic Manager
profile.
Does this meet the goal?

A. Yes
B. No

Answer: A

NEW QUESTION 5
- (Exam Topic 2)
You have an Azure subscription that contains an Azure Cosmos DB account.
You need to recommend a solution to generate an alert from Azure Log Analytics when a request charge for a query exceeds 50 request units more than 20 times
within a 15-minute window.
What should you recommend?

A. Create a search query to identify when requestCharge_s exceeds 50. Configure an alert threshold of 20 and a period of 15.
B. Create a search query to identify when duration_s exceeds 20 and requestCharge_s exceeds 50.Configure a period of 15.
C. Create a search query to identify when requestCharge_s exceeds 20. Configure a period of 15 and a frequency of 20.
D. Create a search query to identify when duration_s exceeds 20. Configure a period of 15.

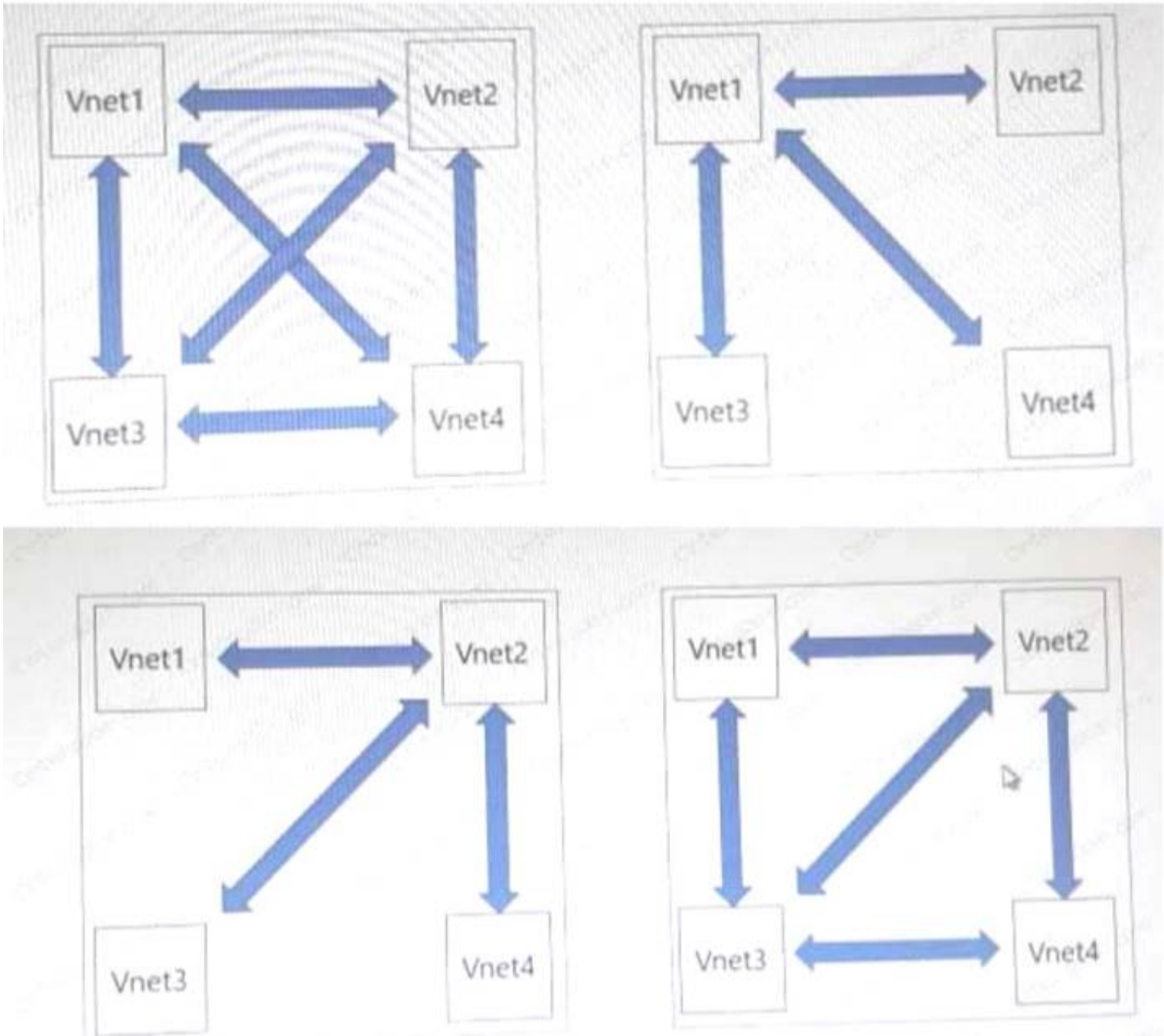**Answer:** A

NEW QUESTION 6
- (Exam Topic 2)
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.
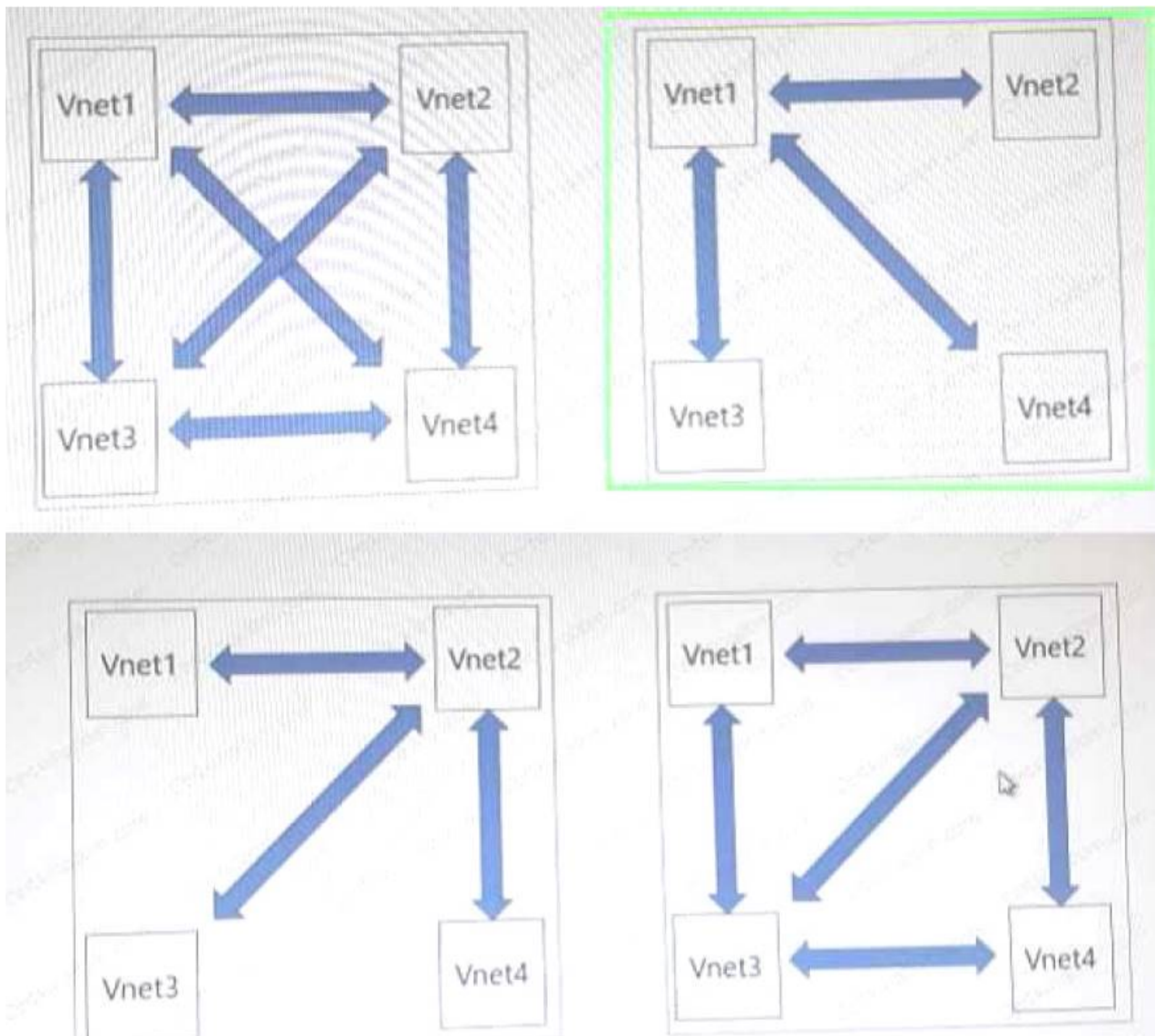NOTE: Each correct selection is worth one point,

A. Mastered
B. Not Mastered

Answer: A

Explanation:

NEW QUESTION 7
- (Exam Topic 2)
Note: This question is 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 have an Azure subscription that contains a resource group named RG1.
You create an Azure Active Directory (Azure AD) group named ResearchUsers that contains the user accounts of all researchers.
You need to recommend a solution that meets the following requirements:
 The researchers must be allowed to create Azure virtual machines.
 The researchers must only be able to create Azure virtual machines by using specific Azure Resource
Manager templates.
Solution: Create a lab in Azure DevTest Lab. Configure the DevTest Labs settings. Assign the DevTest Labs User role to the ResearchUsers group.
Does this meet the goal?

A. Yes
B. No

Answer: B

NEW QUESTION 8
- (Exam Topic 2)
You plan to deploy a payroll system to Azure. The payroll system will use Azure virtual machines that run SUSE Linux Enterprise Server and Windows.
You need to recommend a business continuity solution for the payroll system. The solution must meet the following requirements:
 Minimize costs.
 Provide business continuity if an Azure region fails.
 Provide a recovery time objective (RTO) of 30 minutes.
 Provide a recovery point objective (RPO) of five minutes.
What should you include in the recommendation?

A. Microsoft System Center Data Protection Manage (DPM)
B. unmanaged disks that use geo-redundant storage (GRS)

C. Azure Site Recovery
D. Azure Backup

Answer: C

NEW QUESTION 9
- (Exam Topic 2)
You manage a single-domain, on-premises Active Directory for named contoso.com. The forest functional level is window Server 2016.
You have several on-premises applications that depend on Active Directory. You plan to migrate the applications to Azure.
You need to recommend an identity solution for the appkcatkms. The solution mufl meet the following requirements:
• Eliminate the need for hybrid network connectivity
• Minimize management overhead for Active Directory. What should you recommend?

A. In Azure, deploy additional domain controllers for the contoso.com domain
B. In Azure, deploy an additional child domain to the contoso.com forest.
C. Implement Azure Active Directory Domain Services (Azure AD DS).
D. Implement a new Acuve Directory forest in Azure.

Answer: A

NEW QUESTION 10
- (Exam Topic 2)
Your company has 300 virtual machines hosted in a VMWare environment. The virtual machines vary in size and have various utilization levels.
You plan to move all the virtual machines to Azure.
You need to recommend how many and what size Azure virtual machines will be required to move the current workloads to Azure. The solution must minimize administrative effort.
What should you use to make the recommendation?

A. Azure Cost Management
B. Azure Migrate
C. Azure pricing calculator
D. Azure Advisor recommendations

Answer: A

NEW QUESTION 10
- (Exam Topic 2)
You have an Azure Contoso DB account named Account1 that has one write region and four read regions. You need to recommend a solution to ensure that, by default, any reads containers in Account1 will never see out writes. The solution must minimize costs.
What should you recommend?

A. Configure Account1 to use the Strong consistency level.
B. Create all the containers m Account1 as fixed.
C. Create all the containers m Account1 as unlimited.
D. Configure Account 1 to use the Consistent Prefix consistency level

Answer: A

NEW QUESTION 12
- (Exam Topic 2)
Note: This question is 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 have an Azure subscription named Project1. Only a group named Project1admins is assigned roles in the Project1 subscription. The Project1 subscription contains all the resources for an application named Application1.
Your company is developing a new application named Application2. The members of the Application2 development team belong to an Azure Active Directory (Azure AD) group named App2Dev.
You identify the following requirements for Application2:
 The members of App2Dev must be prevented from changing the role assignments in Azure.
 The members of App2Dev must be able to create new Azure resources required by Application2.
 All the required role assignments for Application2 will be performed by the members of
Project1admins.
You need to recommend a solution for the role assignments of Application2.
Solution: Create a new Azure subscription named Project2. Assign Project1admins the Owner role for the Project2 subscription. Assign App2Dev the Contributor role for the Project2 subscription.
Does this meet the goal?

A. Yes
B. No

Answer: A

NEW QUESTION 13
- (Exam Topic 2)
You are planning to deploy an application by using the Azure Kubermets Services (AKS)> the application will reedy on having access to an encryption key that will be used to ... transmit files
What should you use to provides the encryption key AKS security?

A. secrets
B. Azure Storage Service Encryption
C. a Kubernetes deployment YAML file
D. ConfigureMap

Answer: C

NEW QUESTION 18
- (Exam Topic 2)
You are designing an Azure solution for a company that wants to move a .NET Core web application 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 to a web app hosted in a Premium App Service plan. Does this meet the goal?

A. Yes
B. No

Answer: A

NEW QUESTION 22
- (Exam Topic 2)
You are designing an Azure solution for a company that wants to move a .NET Core web application 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 to a web app hosted in an Isolated App Service plan on VNET1. Does this meet the goal?

A. Yes
B. No

Answer: B

NEW QUESTION 25
- (Exam Topic 2)
Note: This question is 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 have an Azure subscription named Project1. Only a group named Project1admins is assigned roles in the Project1 subscription. The Project1 subscription contains all the resources for an application named Application1.
Your company is developing a new application named Application2. The members of the Application2 development team belong to an Azure Active Directory (Azure AD) group named App2Dev.
You identify the following requirements for Application2:
 The members of App2Dev must be prevented from changing the role assignments in Azure.
 The members of App2Dev must be able to create new Azure resources required by Application2.
 All the required role assignments for Application2 will be performed by the members of
Project1admins.
You need to recommend a solution for the role assignments of Application2.
Solution: In Project1, create a resource group named Application2RG. Assign Project1admins the Owner role for Application2RG. Assign App2Dev the Contributor role for Application2RG.
Does this meet the goal?

A. Yes
B. No

Answer: B

NEW QUESTION 27
- (Exam Topic 2)
You need to deploy resources to host a stateless web app in an Azure subscription. The solution must meet the following requirements:
• Provide access to the full .NET framework.
• Provide redundancy if an Azure region fails.
• Grant administrators access to the operating system to install custom application dependencies.
Solution: You deploy an Azure virtual machine to two Azure regions, and you deploy an Azure Application Gateway.
Does this meet the goal?

A. Yes
B. No

Answer: B

NEW QUESTION 31
- (Exam Topic 2)
Your development team plans to use an Azure subcription to test new applications. The application will reside on Azure virtual machines. The developers will be responsible for managing the subscription shared resources will be used by more than one appliacation.
You need to recommend a deplyment solution that meets the following requirements: Minimize administration effort for the develops

Ensures that the testing environment can be recreated consistently
Ensures that the testing cycle is complete, all the resources, except for the shared resources associated to each application are deleted
What should you include in the recommendation?

A. Use JSON templates to create the resource
B. Place the shared resources in one resource group, the application-specific resources in separate resource group.
C. Use JSON templates to create the resource
D. Place the shared resources in one resource group- Place all the application -.pacific in a resources in second resource group
E. Use an Azure PowerShell script lo create the resource
F. Place the shared resources .and the application-specific resources in the resources group.
G. Use an Azure PowerShell script to create the resource
H. Place the shared resources in one resource group Place the application-specific resources in separate resources groups.

Answer: B

NEW QUESTION 35
- (Exam Topic 2)
Your company has several Azure subscriptions that are part of a Microsoft Enterprise Agreement? The company's compliance team creates automatic alerts by using Ware Monitor.
You need to recommend a solution to apply the alerts automatically when new subscriptions are added to the Enterprise agreement.
What should you include in the recommendation?

A. Azure Pokey
B. Azure Resource Manager templates
C. Azure log Analytics alerts
D. Azure Monitor action groups
E. Azure Automation runboote

Answer: D

NEW QUESTION 39
- (Exam Topic 2)
You have a hybrid deployment of Azure Active Directory (Azure AD).
You need to recommend a solution to ensure that the Azure AD tenant can be managed only from the computers on your on-premises network.
What should you include in the recommendation?

A. Azure AD roles and administrators
B. a conditional access policy
C. Azure AD Application Proxy
D. Azure AD Privileged Identity Management

Answer: B

NEW QUESTION 41
- (Exam Topic 2)
You need to recommend a solution lo generate a monthly report of all the new Azure Resource Manager resource deployment in your subscription What should you include in the recommend3tlon,

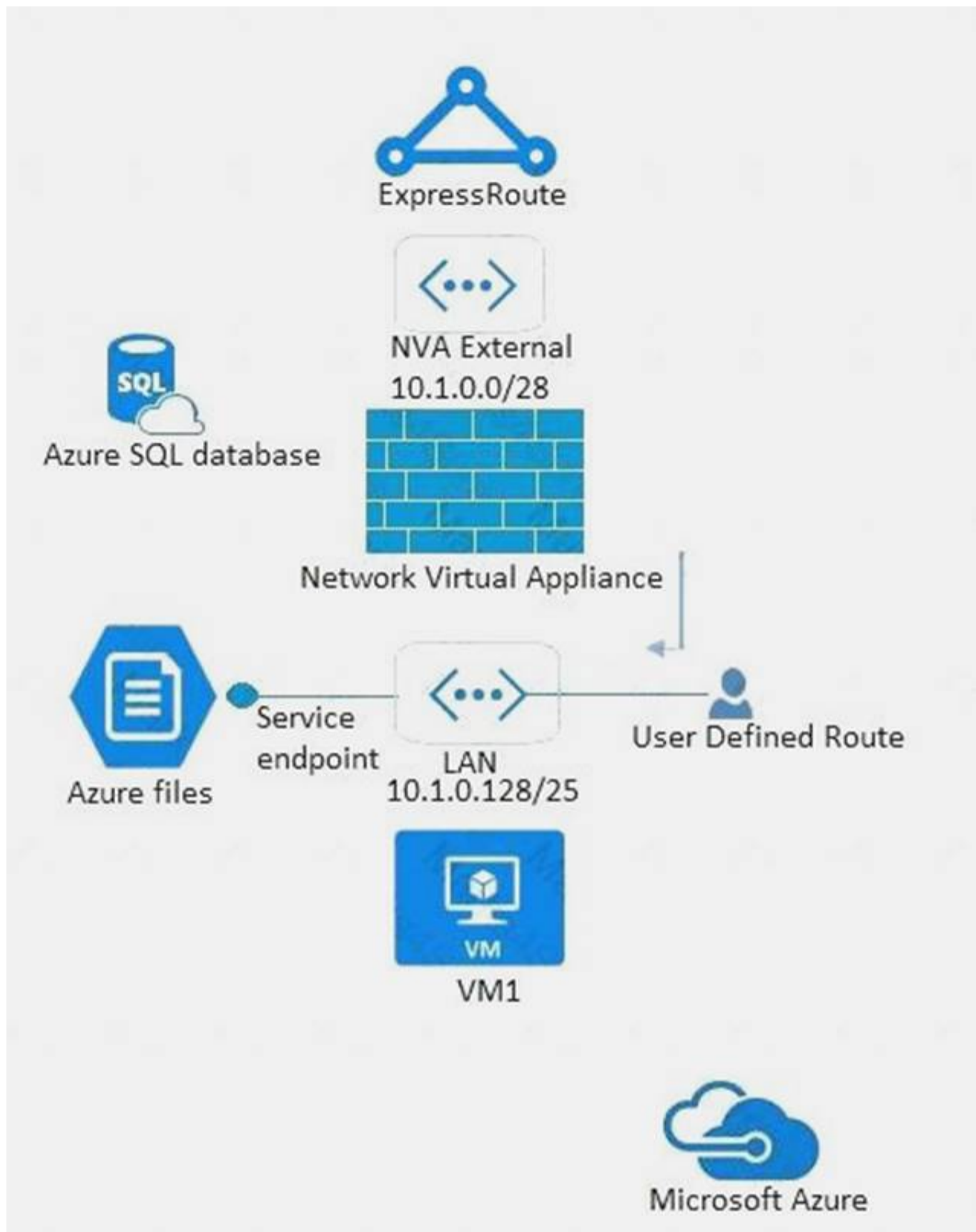A. Azure Activity Log
B. Azure Monitor action groups
C. Azure Advisor
D. Azure Monitor metrics

Answer: B

NEW QUESTION 42
- (Exam Topic 2)
You have the network topology shown in the following exhibit.

You have a user-defined route that has a default route of 0.0.0.0/0 and the next hop set to the network virtual appliance.
You configure the Azure Storage account to use virtual network service endpoints.
For each of the following statements, select Yes if the statement is true. Otherwise, select No. NOTE: Each correct selection is worth one point.

Statements	Yes	No
From VM1, traffic destined to the Azure Key Management Service will be routed to the network virtual appliance.	○	○
From VM1, traffic destined to the Azure file share will be routed to the Internet.	○	○
From VM1, traffic destined to the Azure SQL database will be routed to the Internet.	○	○

A. Mastered
B. Not Mastered

Answer: A

Explanation:
References:
https://docs.microsoft.com/en-us/azure/virtual-network/virtual-networks-udr-overview

NEW QUESTION 43
- (Exam Topic 2)
You have an Azure subscription that contains a custom application named Application was developed by an external company named fabric, Ltd. Developers at

Fabrikam were assigned role-based access control (RBAV) permissions to the Application components. All users are licensed for the Microsoft 365 E5 plan.
You need to recommends a solution to verify whether the Faricak developers still require permissions to Application1. The solution must the following requirements.
* To the manager of the developers, send a monthly email message that lists the access permissions to Application1.
* If the manager does not verify access permission, automatically revoke that permission.
* Minimize development effort. What should you recommend?

A. Create an Azure Automation runbook that the Get-AureADUSAppRoleAssigmety cmdlet.
B. In azure Active directory (Azure AD) create an access review of application1.
C. In Azure Active Directory (AD) privileged identity Managed, create a custom roles assignment for the Application 1 resources.
D. Create an Azure Automation runbook that runs the get-AzureRaRolesAssigned cmdlet.

Answer: A

NEW QUESTION 44
- (Exam Topic 2)
You need to recommend a data storage solution that meets the following requirements:
 Ensures that application can access the data by using a REST connection
 Hosts 20 independent tables of varying sizes and usage patterns
 Automatically replicates the data to a second Azure region
 Minimizes costs
What should you recommend?

A. an Azure SQL Database elastic database pool that uses active geo-replication
B. tables in an Azure Storage account that uses geo-redundant storage (GRS)
C. tables in an Azure Storage account that use read-access geo-redundant storage (RA-GR)
D. an Azure SQL database that uses active geo-replication

Answer: C

NEW QUESTION 46
- (Exam Topic 2)
A company named Contoso, Ltd. has an Azure Active Directory (Azure AD) tenant that is integrated with Microsoft Office 365 and an Azure subscription.
Contoso has an on-premises identity infrastructure. The infrastructure includes servers that run Active Directory Domain Services (AD DS), Active Directory Federation Services (AD FS), Azure AD Connect, and Microsoft Identity Manager (MIM).
Contoso has a partnership with a company named Fabrikam, Inc. Fabrikam has an Active Directory forest and an Office 365 tenant. Fabrikam has the same on-premises identity infrastructure as Contoso.
A team of 10 developers from Fabrikam will work on an Azure solution that will be hosted in the Azure subscription of Contoso. The developers must be added to the Contributor role for a resource in the Contoso subscription.
You need to recommend a solution to ensure that Contoso can assign the role to the 10 Fabrikam developers.
The solution must ensure that the Fabrikam developers use their existing credentials to access resources. What should you recommend?

A. Configure a forest trust between the on-premises Active Directory forests of Contoso and Fabrikam.
B. Configure an organization relationship between the Office 365 tenants of Fabrikam and Contoso.
C. In the Azure AD tenant of Contoso, enable Azure Active Directory Domain Services (Azure AD DS).Createa one-way forest trust that uses selective authentication between the Active Directory forests of Contoso and Fabrikam.
D. In the Azure AD tenant of Contoso, create guest accounts for the Fabrikam developers.

Answer: D

Explanation:
 References:
https://docs.microsoft.com/en-us/azure/role-based-access-control/role-assignments-external-users

NEW QUESTION 48
- (Exam Topic 2)
You have an on-premises deployment of MongoDB.
You plan to migrate MongoDB to an Azure Cosmos DB account that uses the MongoDB API. You need to recommend a solution for migrating MongoDB to Azure Cosmos DB.
What should you include in the recommendation?

A. mongorestore
B. Data Migration Assistant
C. Azure Storage Explorer
D. Azure Cosmos DB Data Migration Tool

Answer: A

Explanation:
 References:
https://docs.microsoft.com/en-us/azure/cosmos-db/mongodb-migrate

NEW QUESTION 51
- (Exam Topic 3)
You need to recommend a high-availability solution for the middle tier of the payment processing system. What should you include in the recommendation?

A. availability zones
B. an availability set
C. the Premium App Service plan

D. the Isolated App Server plan

Answer: A

NEW QUESTION 52
- (Exam Topic 3)
You need to recommend a compute solution for the middle tier of the payment processing system. What should you include in the recommendation?

A. Azure Kubernetes Service (AKS)
B. virtual machine scale sets
C. availability sets
D. App Service Environments (ASEs)

Answer: B

NEW QUESTION 53
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