DUMPSARENA

Microsoft Azure Architect Design

Microsoft AZ-301

Version Demo

Total Demo Questions: 15

Total Premium Questions: 259

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Topic Break Down

Topic	No. of Questions
Topic 1, Case Study 1	3
Topic 2, Case Study 2	2
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Topic 4, Case Study 4	3
Topic 5, Case Study 5	2
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Total	259

QUESTION NO: 1

A company named Contoso Ltd., has a single-domain Active Directory forest named contoso.com.

Contoso is preparing to migrate all workloads to Azure. Contoso wants users to use single sign-on (SSO) when they access cloud-based services that integrate with Azure Active Directory (Azure AD).

You need to identify any objects in Active Directory that will fail to synchronize to Azure AD due to formatting issues. The solution must minimize costs.

What should you include in the solution?

A. Azure Advisor

B. Microsoft Office 365 IdFix

C. Azure AD Connect Health

D. Password Export Server version 3.1 (PES v3.1) in Active Directory Migration Tool (ADMT)

ANSWER: B

QUESTION NO: 2

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 migrating an on-premises application to Azure. One component of the application is a legacy Windows native executable that performs image processing.

The image processing application must run every hour. During times that the image processing application is not running, it should not be consuming any Azure compute resources.

You need to ensure that the image processing application runs correctly every hour.

Solution: Create an Azure Function to run the image processing application every hour.

Does the solution meet the goal?

A. Yes

B. No

ANSWER: B

Explanation:

Instead use an Azure Logic Apps, which helps you automate workflows that run on a schedule.

Reference:

https://docs.microsoft.com/en-us/azure/logic-apps/tutorial-build-schedule-recurring-logic-app-workflow

QUESTION NO: 3 - (DRAG DROP)

DRAG DROP

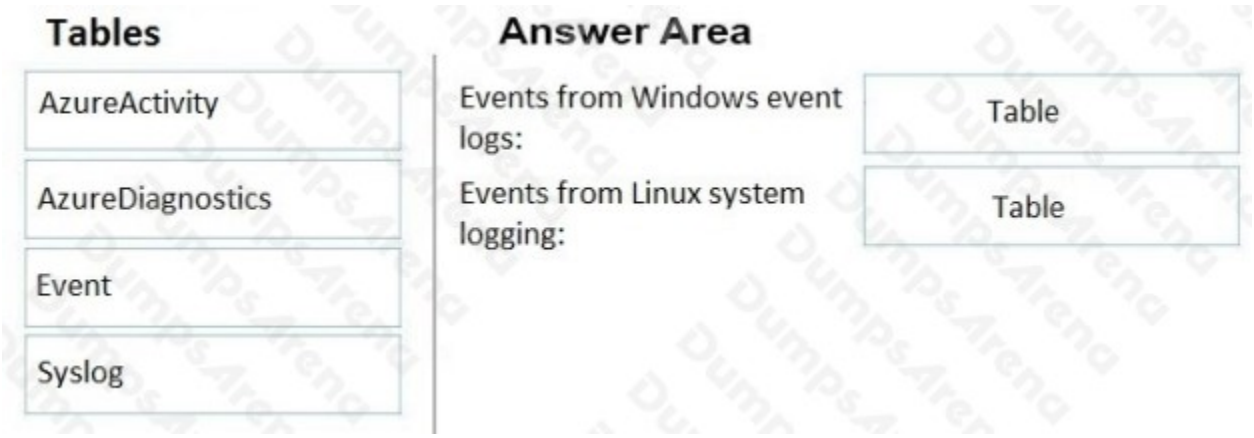
You have an Azure subscription. The subscription contains Azure virtual machines that run Windows Server 2016 and Linux.

You need to use Azure Monitor to design an alerting strategy for security-related events.

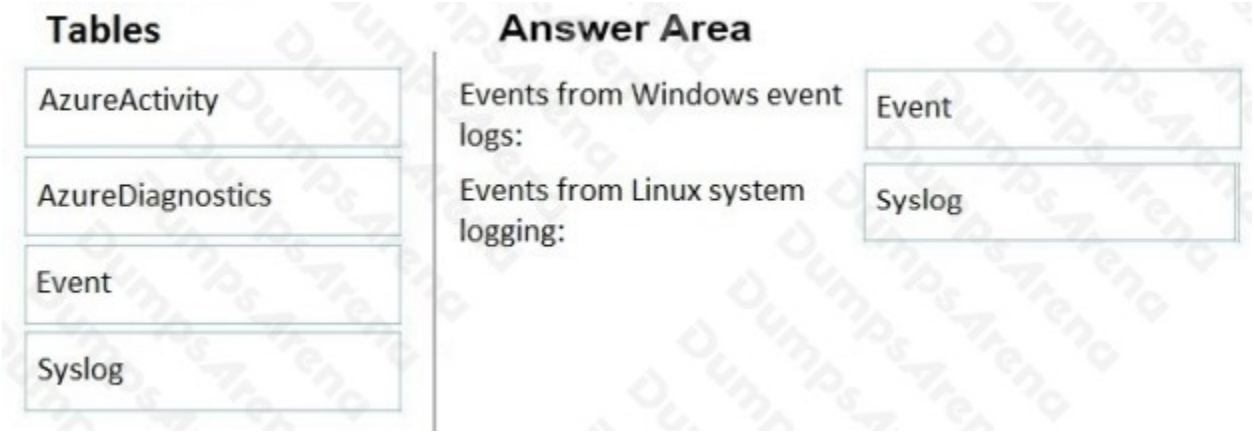
Which Log Analytics tables should you query? To answer, drag the appropriate tables to the correct log types. Each value may be used once, more than once, or not at all. You may need to drag the split bar between panes or scroll to view content.

NOTE: Each correct selection is worth one point.

Select and Place:



ANSWER:



QUESTION NO: 4

Your company plans to migrate its on-premises data to Azure.

You need to recommend which Azure services can be used to store the data. The solution must meet the following requirements:

- Encrypt all data while at rest.
- Encrypt data only by using a key generated by the company.

Which two possible services can you recommend? Each correct answer presents a complete solution.

NOTE: Each correct selection is worth one point.

A. Azure Table storage

B. Azure Backup

C. Azure Blob storage

D. Azure Queue storage

E. Azure Files

ANSWER: C E

Explanation:

Reference: https://docs.microsoft.com/en-us/azure/storage/common/storage-service-encryption-customer-managed-keys

QUESTION NO: 5

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:

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

QUESTION NO: 6

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 account that contains two 1-GB data files named File1 and File2. The data files are set to use the archive access tier.

You need to ensure that File1 is accessible immediately when a retrieval request is initiated.

Solution: You add a new file share to the storage account.

Does this meet the goal?

A. Yes

B. No

ANSWER: B

Explanation:

Design a Business Continuity Strategy

QUESTION NO: 7

You have an Azure subscription.

You need to recommend a solution to provide developers with the ability to provision Azure virtual machines. The solution must meet the following requirements:

▪ Only allow the creation of the virtual machines in specific regions. ▪ Only allow the creation of specific sizes of virtual machines.

What should you include in the recommendation?

A. conditional access policies

B. Azure Policy

C. Azure Resource Manager templates

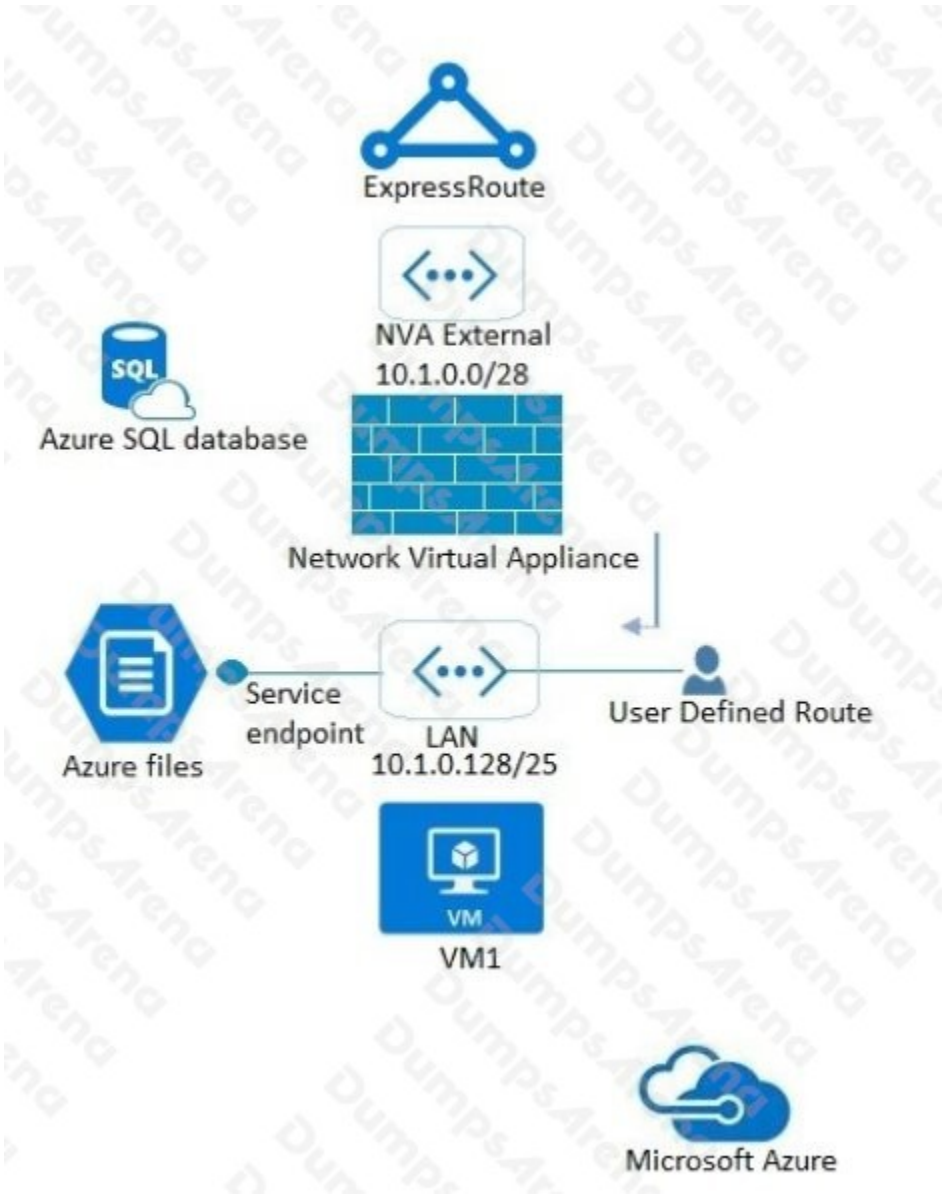
D. role-based access control (RBAC)

ANSWER: B

QUESTION NO: 8 - (HOTSPOT)

HOTSPOT

You have the network topology shown in the following exhibit.



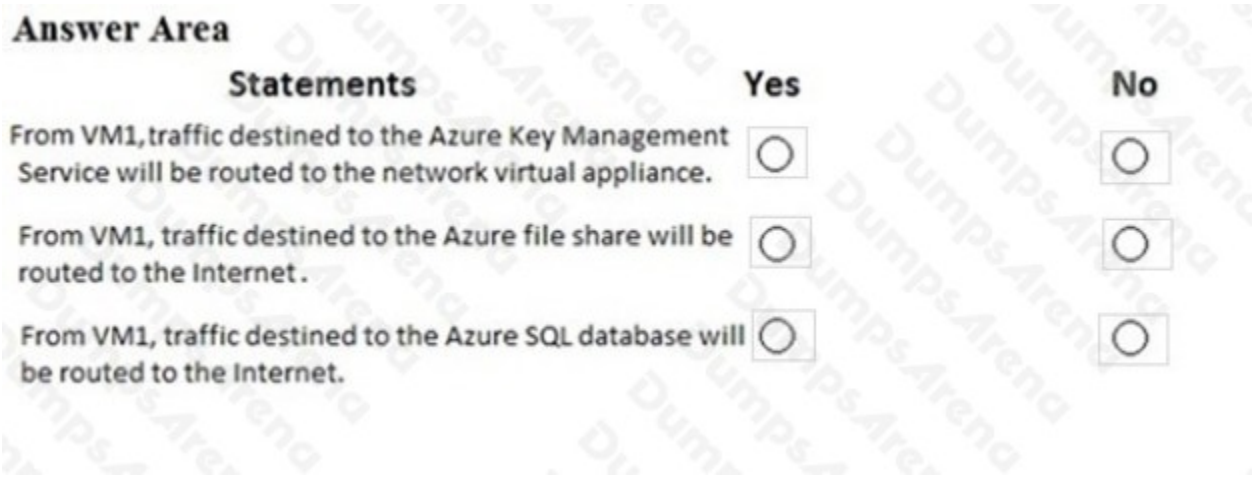
You have a user-defined route that has a default route of 0.0.0.0/0 and the next hop set to the network virtual appliance.

You configure the Azure Storage account to use virtual network service endpoints.

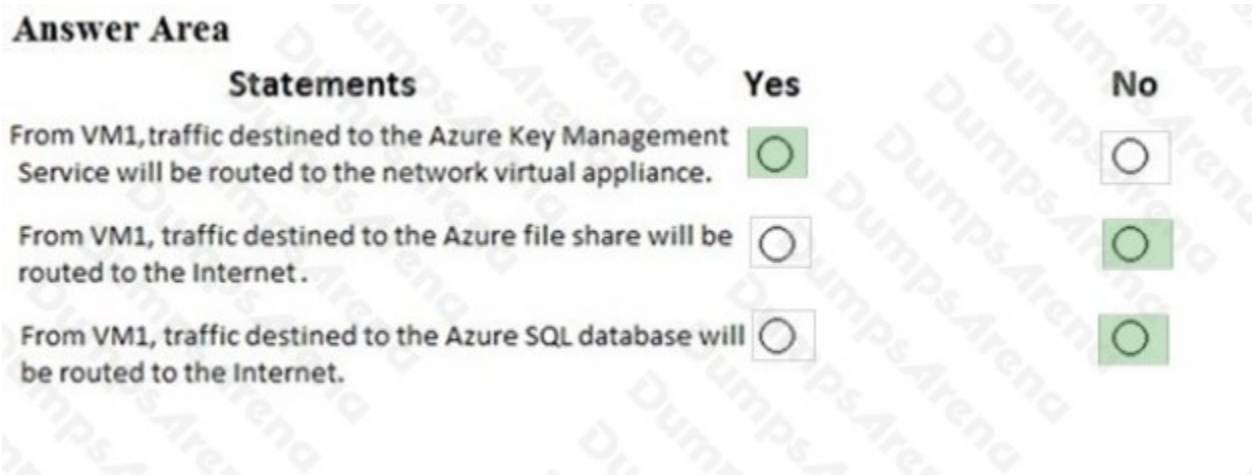
For each of the following statements, select Yes if the statement is true. Otherwise, select No.

NOTE: Each correct selection is worth one point.

Hot Area:



ANSWER:



Explanation:

Reference:

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

QUESTION NO: 9

You have an on-premises network to which you deploy a virtual appliance.

You plan to deploy several Azure virtual machines and connect the on-premises network to Azure by using a Site-to-Site connection.

All network traffic that will be directed from the Azure virtual machines to a specific subnet must flow through the virtual appliance.

You need to recommend solutions to manage network traffic.

Which two options should you recommend? Each correct answer presents a complete solution.

NOTE: Each correct selection is worth one point.

A. Configure Azure Traffic Manager

B. Implement an Azure virtual network

C. Configure a routing table with forced tunneling

D. Implement Azure ExpressRoute

ANSWER: C D

Explanation:

C: Forced tunneling lets you redirect or "force" all Internet-bound traffic back to your on-premises location via a Site-to-Site VPN tunnel for inspection and auditing. This is a critical security requirement for most enterprise IT policies. Without forced tunneling, Internet-bound traffic from your VMs in Azure always traverses from Azure network infrastructure directly out to the Internet, without the option to allow you to inspect or audit the traffic.

Forced tunneling in Azure is configured via virtual network user-defined routes.

D: ExpressRoute lets you extend your on-premises networks into the Microsoft cloud over a private connection facilitated by a connectivity provider. With ExpressRoute, you can establish connections to Microsoft cloud services, such as Microsoft Azure, Office 365, and Dynamics 365.

Connectivity can be from an any-to-any (IP VPN) network, a point-to-point Ethernet network, or a virtual cross-connection through a connectivity provider at a co-location facility. ExpressRoute connections do not go over the public Internet. This allows ExpressRoute connections to offer more reliability, faster speeds, lower latencies, and higher security than typical connections over the Internet.

Reference: https://docs.microsoft.com/en-us/azure/vpn-gateway/vpn-gateway-forced-tunneling-rm
https://docs.microsoft.com/en-us/azure/expressroute/expressroute-introduction

QUESTION NO: 10

You have a web app named App1 that is hosted on-premises and on four Azure virtual machines. Each virtual machine is in a different region.

You need to recommend a solution to ensure that users will always connect to the closest instance of App1. The solution must prevent the users from attempting to connect to a failed instance of App1.

Which two possible recommendations achieve the goal? Each correct answer presents a complete solution.

NOTE: Each correct selection is worth one point.

A. Azure Front Door Service

B. Azure Load Balancer

C. round-robin DNS

D. Azure Traffic Manager

E. Azure Application Gateway

ANSWER: A D

QUESTION NO: 11 - (DRAG DROP)

DRAG DROP

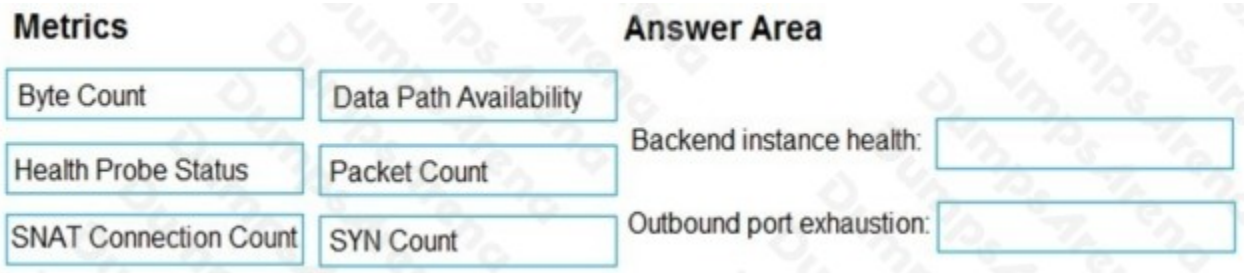
You have standard Load balancer configured to support three virtual machines on the same subnet.

You need to recommend a solution to notify administrators when the load balancer fails.

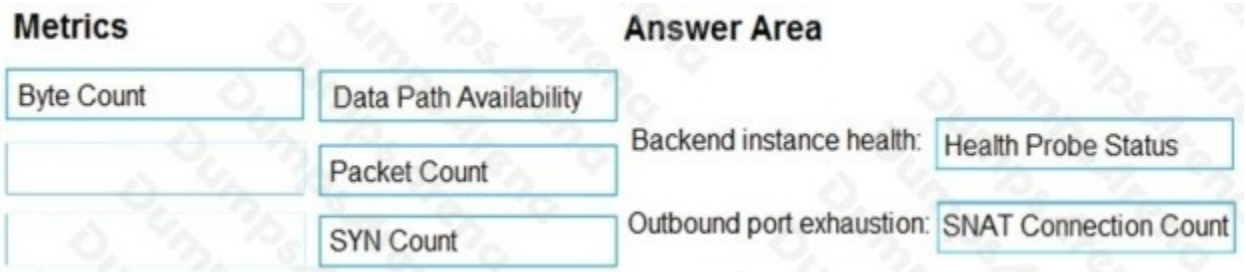
Which metrics should you recommend using to test the load balancer? To answer, drag the appropriate metrics to the correct conditions. Each metric may be used once, more than once, or not at all. You may need to drag the split bar between panes or scroll to view content.

NOTE: Each correct selection is worth one point.

Select and Place:



ANSWER:



Explanation:

Backend instance health: Health Probe Status

Health Probe Status (DIP Availability): Standard Load Balancer uses a distributed health-probing service that monitors your application endpoint's health according to your configuration settings. This metric provides an aggregate or per-endpoint filtered view of each instance endpoint in the load balancer pool. You can see how Load Balancer views the health of your application, as indicated by your health probe configuration.

Outbound port exhaustion: SNAT connection Count

SNAT connections: Standard Load Balancer reports the number of outbound flows that are masqueraded to the Public IP address front end. Source network address translation (SNAT) ports are an exhaustible resource. This metric can give an indication of how heavily your application is relying on SNAT for outbound originated flows. Counters for successful and failed outbound SNAT flows are reported and can be used to troubleshoot and understand the health of your outbound flows.

Reference: https://docs.microsoft.com/en-us/azure/load-balancer/load-balancer-standard-diagnostics

QUESTION NO: 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.

Your company has deployed several virtual machines (VMs) on-premises and to Azure. Azure ExpressRoute has been deployed and configured for on-premises to Azure connectivity.

Several VMs are exhibiting network connectivity issues.

You need to analyze the network traffic to determine whether packets are being allowed or denied to the VMs.

Solution: Install and configure the Microsoft Monitoring Agent and the Dependency Agent on all VMs. Use the Wire Data solution in Azure Monitor to analyze the network traffic.

Does the solution meet the goal?

A. Yes

B. No

ANSWER: B

Explanation:

Instead use Azure Network Watcher to run IP flow verify to analyze the network traffic.

Note: Wire Data looks at network data at the application level, not down at the TCP transport layer. The solution doesn't look at individual ACKs and SYNs.

Reference: https://docs.microsoft.com/en-us/azure/network-watcher/network-watcher-monitoring-overview
https://docs.microsoft.com/en-us/azure/network-watcher/network-watcher-ip-flow-verify-overview

QUESTION NO: 13

You have an Azure subscription.

Your on-premises network contains a file server named Server1. Server1 stores 5 TB of company files that are accessed rarely.

You plan to copy the files to Azure Storage.

You need to implement a storage solution for the files that meets the following requirements:

- The files must be available within 24 hours of being requested.
- Storage costs must be minimized.

Which two possible storage solutions achieve this goal? Each correct answer presents a complete solution.

NOTE: Each correct selection is worth one point.

A. Create a general-purpose v2 storage account that is set to the Cool access tier. Create a file share in the storage account and copy the files to the file share.

B. Create a general-purpose v2 storage account that is set to the Hot access tier. Create a blob container, copy the files to the blob container, and set each file to the Archive access tier.

C. Create a general-purpose v1 storage account. Create a file share in the storage account and copy the files to the file share.

D. Create an Azure Blob storage account that is set to the Cool access tier. Create a blob container, copy the files to the blob container, and set each file to the Archive access tier.

E. Create a general-purpose v1 storage account. Create a blob container and copy the files to the blob container.

ANSWER: A E

Explanation:

A: Azure storage offers different access tiers, which allow you to store blob object data in the most cost-effective manner. The Cool access tier is optimized for storing data that is infrequently accessed and stored for at least 30 days.

E: Using a file share is cheaper than using a blob container.

Incorrect Answers:

B, D: The Archive tier is optimized for storing data that is rarely accessed and stored for at least 180 days with flexible latency requirements (on the order of hours).

C: Using a Blob container would be cheaper than using a file share.

References: https://docs.microsoft.com/en-us/azure/storage/blobs/storage-blob-storage-tiers

QUESTION NO: 14

Use the following login credentials as needed:

To enter your username, place your cursor in the Sign in box and click on the username below.

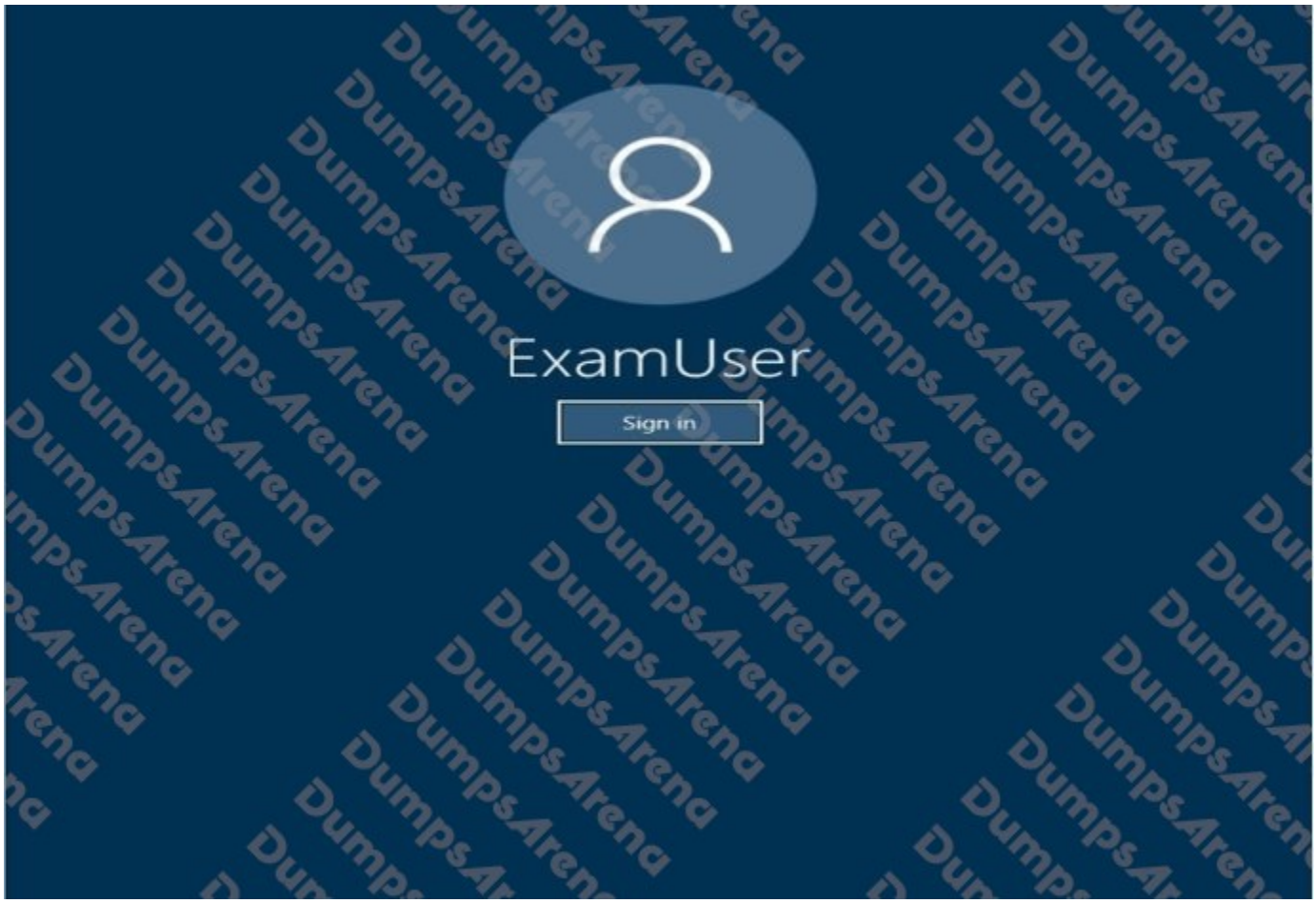
To enter your password, place your cursor in the Enter password box and click on the password below.

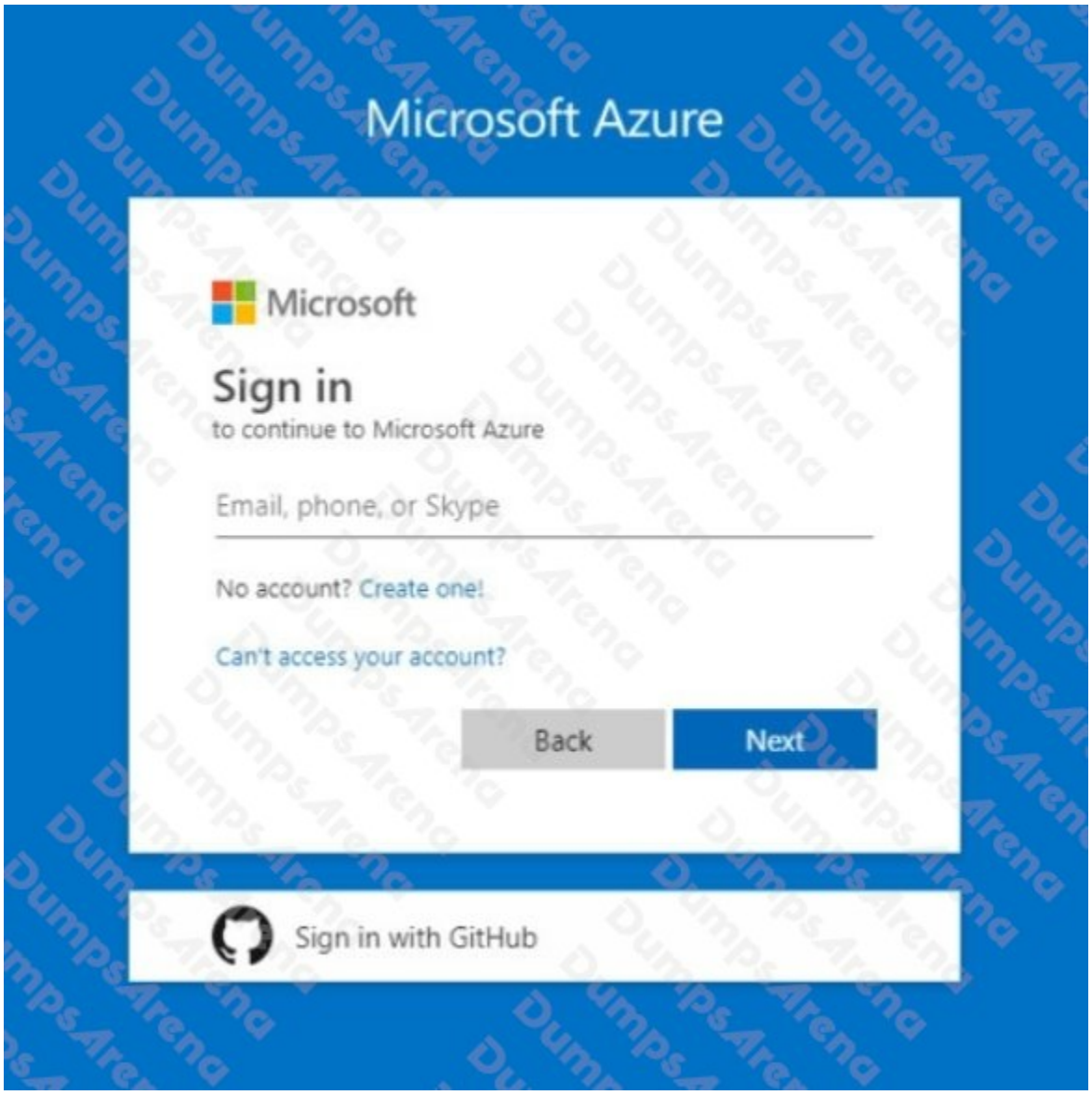
Azure Username: User1-10989444@ExamUsers.com Azure Password: KJn29!aBBB

If the Azure portal does not load successfully in the browser, press CTRL-K to reload the portal in a new browser tab.

The following information is for technical support purposes only:

Lab Instance: 10989444


ExamUser
Sign in



You need to ensure that remote SSH connections can be established securely from the Internet to NWVM3.

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

NOTE: Each correct selection is worth one point.

NOTE: To answer this question, sign in to the Azure portal and explore an Azure resource group named ResourceGroup1lod10989444.

A. Deploy a network security group (NSG), and then attach the NSG to NWVM3NetworkInterface.

B. Deploy an application gateway that contains a publish rule.

C. Deploy a load balancer that contains a NAT rule, and then add NWVM3NetworkInterface to the backend pool.

D. Move NWVM3NetworkInterface to NWDemoRG_VNET.

E. Deploy a gateway subnet, and then attach NWVM3PubIP to the subnet.

ANSWER: C D

Explanation:

Internal load balancer. Network traffic from the VPN gateway is routed to the cloud application through an internal load balancer. The load balancer is located in the front-end subnet of the application.

Incorrect Answers:

A, E: Do not deploy any VMs to the gateway subnet. Also, do not assign an NSG to this subnet, as it will cause the gateway to stop functioning.

Reference:

https://docs.microsoft.com/en-us/azure/architecture/reference-architectures/hybrid-networking/vpn

QUESTION NO: 15 - (HOTSPOT)

HOTSPOT

Your organization has developed and deployed several Azure App Service Web and API applications. The applications use Azure Key Vault to store several authentication, storage account, and data encryption keys. Several departments have the following requests to support the applications:

Department	Request
Security	• Review membership of administrative roles and require to provide a justification for continued membership • Get alerts about changes in administrator assignments. • See a history of administrator activation, including which changes administrators made to Azure resources.
Development	• Enable the applications to access Azure Key Vault and retrieve keys for use in code.
Quality Assurance	• Receive temporary administrator access to create and configure additional Web and API applications in the test environment.

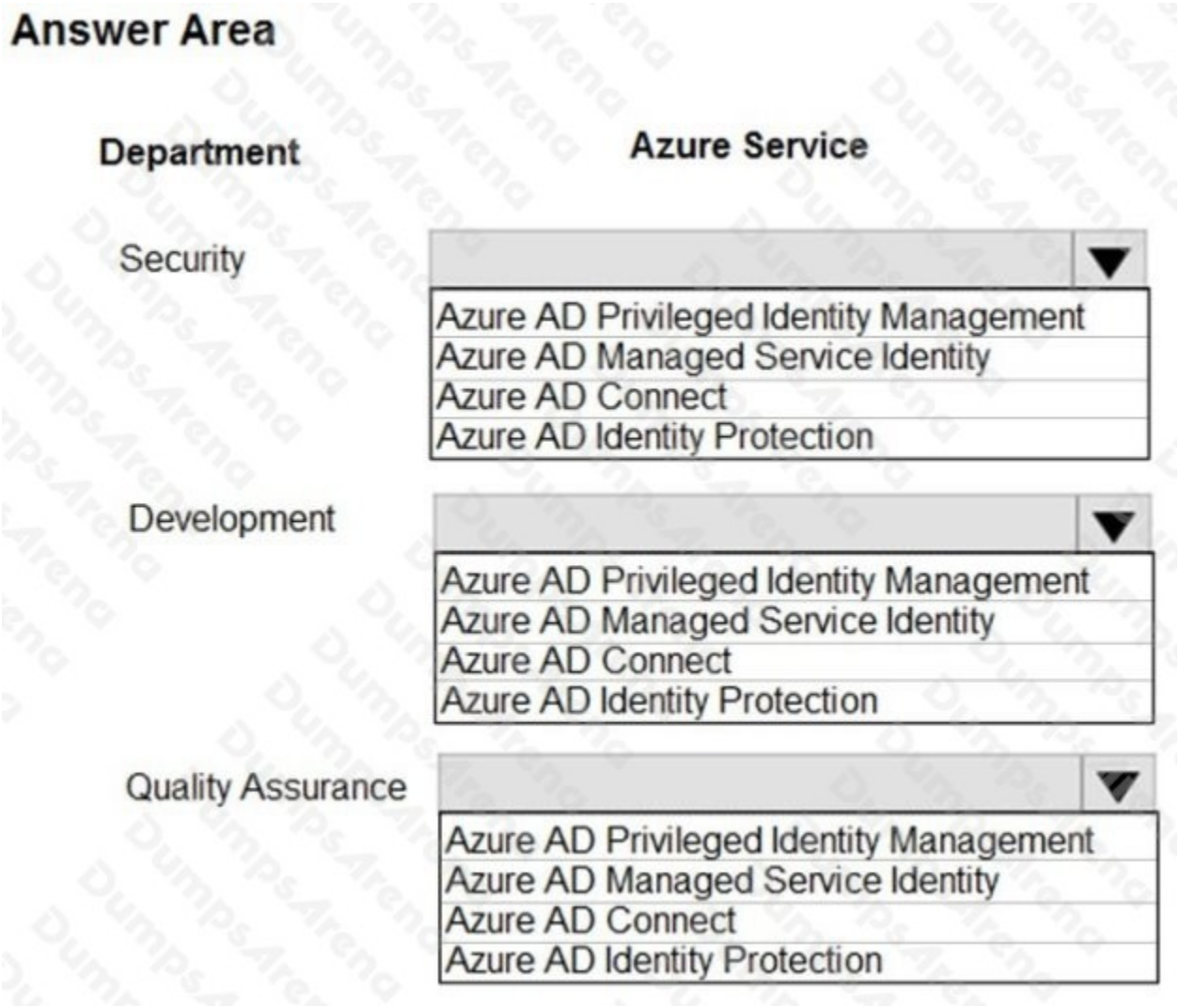
You need to recommend the appropriate Azure service for each department request.

What should you recommend? To answer, configure the appropriate options in the dialog box in the answer area.

NOTE: Each correct selection is worth one point.

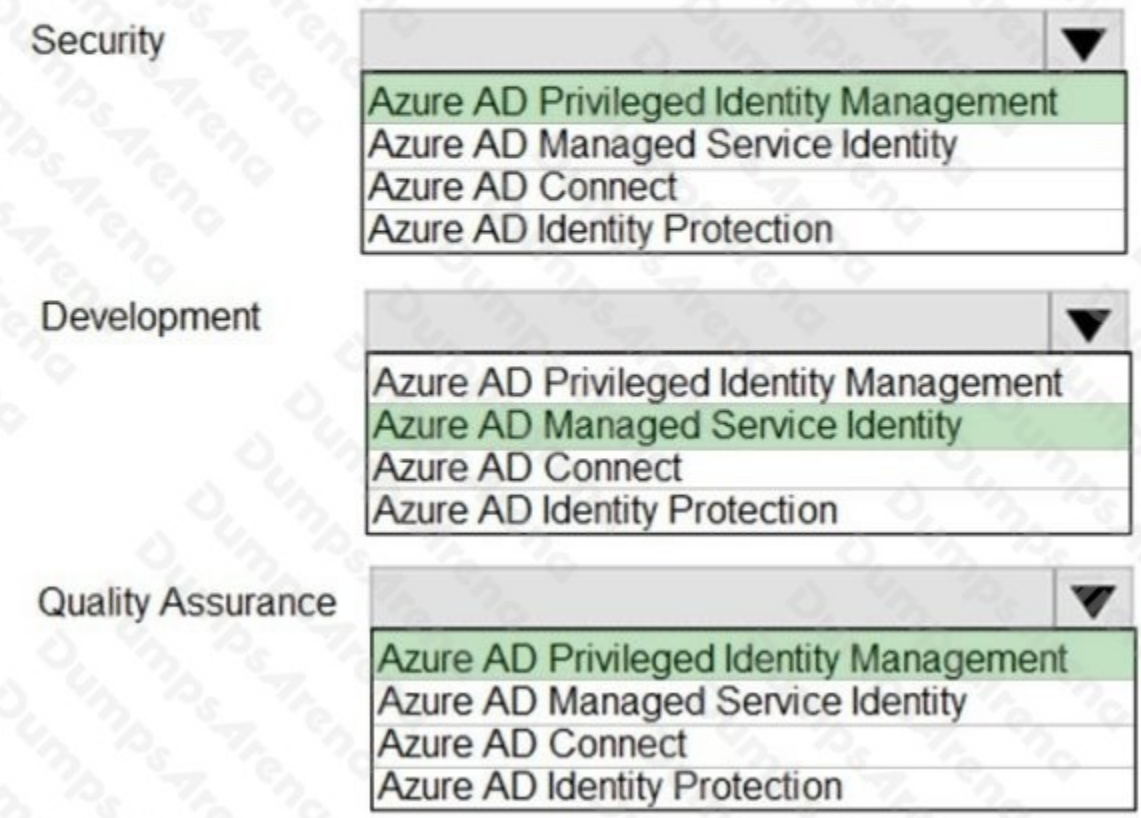
Hot Area:

Answer Area



ANSWER:

Answer Area


Department
Azure Service
Security
Azure AD Privileged Identity Management
Azure AD Managed Service Identity
Azure AD Connect
Azure AD Identity Protection
Development
Azure AD Privileged Identity Management
Azure AD Managed Service Identity
Azure AD Connect
Azure AD Identity Protection
Quality Assurance
Azure AD Privileged Identity Management
Azure AD Managed Service Identity
Azure AD Connect
Azure AD Identity Protection