

Microsoft

Exam Questions AZ-305

Designing Microsoft Azure Infrastructure Solutions





NEW QUESTION 1

- (Exam Topic 3)

You need to recommend a solution that meets the application development requirements. What should you include in the recommendation?

- A. an Azure Container Registry instance
- B. deployment slots
- C. Continuous Integration/Continuous Deployment (CI/CD) sources
- D. the Azure App Configuration service

Answer: B

NEW QUESTION 2

- (Exam Topic 3)

What should you recommend to meet the monitoring requirements for App2?

- A. Microsoft Sentinel
- B. Azure Application Insights
- C. Container insights
- D. VM insights

Answer: B

NEW QUESTION 3

- (Exam Topic 5)

You plan to deploy an application named App1 that will run in containers on Azure Kubernetes Service (AKS) clusters. The AKS clusters will be distributed across four Azure regions.

You need to recommend a storage solution to ensure that updated container images are replicated automatically to all the Azure regions hosting the AKS clusters. Which storage solution should you recommend?

- A. Azure Cache for Redis
- B. Premium SKU Azure Container Registry
- C. Azure Content Delivery Network (CON)
- D. geo-redundant storage (GRS) accounts

Answer: B

NEW QUESTION 4

- (Exam Topic 5)

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

Name	Туре	Description
App1	Azure App Service app	None
Workspace1	Log Analytics workspace	Configured to use a pay-as-you-go pricing tier
App1Logs	Log Analytics table	Hosted in Workspace1 Configured to use the Analytics Logs data plan

Log files from App1 are ingested to App 1 Logs. An average of 120 GB of log data is ingested per day. You configure an Azure Monitor alert that will be triggered if the App1 logs contain error messages.

You need to minimize the Log Analytics costs associated with App1. The solution must meet the following requirements:

- Ensure that all the log files from App1 are ingested to App 1 Logs.
- Minimize the impact on the Azure Monitor alert.

Which resource should you modify, and which modification should you perform? To answer, select the appropriate options in the answer area.

NOTE: Each correct selection is worth one point.

Answer Area





Solution:

A screenshot of a computer Description automatically generated

Does this meet the goal?

A. Yes

B. No

Answer: A

NEW QUESTION 5

- (Exam Topic 5)

You have SQL Server on an Azure virtual machine. The databases are written to nightly as part of a batch process.

You need to recommend a disaster recovery solution for the data. The solution must meet the following requirements:

- Provide the ability to recover in the event of a regional outage.
- Support a recovery time objective (RTO) of 15 minutes.
- Support a recovery point objective (RPO) of 24 hours.
- Support automated recovery.
- Minimize costs.

What should you include in the recommendation?

- A. Azure virtual machine availability sets
- B. Azure Disk Backup
- C. an Always On availability group
- D. Azure Site Recovery

Answer: D

Explanation:

Replication with Azure Site Recover:

- RTO is typically less than 15 minutes.
- PRO: One hour for application consistency and five minutes for crash consistency. Reference:

https://docs.microsoft.com/en-us/azure/site-recovery/site-recovery-sql

NEW QUESTION 6

- (Exam Topic 5)

You are designing an app that will be hosted on Azure virtual machines that run Ubuntu. The app will use a third-party email service to send email messages to users. The third-party email service requires that the app authenticate by using an API key.

You need to recommend an Azure Key Vault solution for storing and accessing the API key. The solution must minimize administrative effort.

What should you recommend using to store and access the key? To answer, select the appropriate options in the answer area.

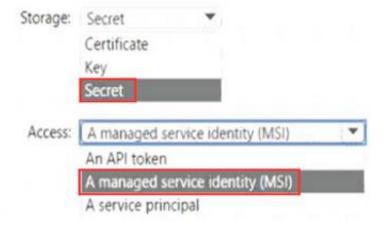
NOTE: Each correct selection is worth one point.

Answer Area



Solution:

Answer Area



Does this meet the goal?

A. Yes



B. No

Answer: A

NEW QUESTION 7

- (Exam Topic 5)

Your company has offices in the United States, Europe, Asia, and Australia.

You have an on-premises app named App1 that uses Azure Table storage. Each office hosts a local instance of App1.

You need to upgrade the storage for App1. The solution must meet the following requirements:

- Enable simultaneous write operations in multiple Azure regions.
- Ensure that write latency is less than 10 ms.
- Support indexing on all columns.
- Minimize development effort. Which data platform should you use?
- A. Azure SQL Database
- B. Azure SQL Managed Instance
- C. Azure Cosmos DB
- D. Table storage that uses geo-zone-redundant storage (GZRS) replication

Answer: D

Explanation:

Azure Cosmos DB Table API has

- Single-digit millisecond latency for reads and writes, backed with <10-ms latency reads and <15-ms latency writes at the 99th percentile, at any scale, anywhere in the world.
- Automatic and complete indexing on all properties, no index management.
- Turnkey global distribution from one to 30+ regions. Support for automatic and manual failovers at any

time, anywhere in the world. Reference:

https://docs.microsoft.com/en-us/azure/cosmos-db/table-support

NEW QUESTION 8

- (Exam Topic 5)

You have an Azure subscription.

You need to recommend an Azure Kubernetes service (AKS) solution that will use Linux nodes. The solution must meet the following requirements:

- Minimize the time it takes to provision compute resources during scale-out operations.
- Support autoscaling of Linux containers.
- Minimize administrative effort.

Which scaling option should you recommend?

- A. Virtual Kubetet
- B. cluster autoscaler
- C. virtual nodes
- D. horizontal pod autoscaler

Answer: B

Explanation:

https://docs.microsoft.com/en-us/azure/aks/virtual-nodes

NEW QUESTION 9

- (Exam Topic 5)

You plan to deploy multiple instances of an Azure web app across several Azure regions.

You need to design an access solution for the app. The solution must meet the following replication requirements:

- Support rate limiting.
- · Balance requests between all instances.
- Ensure that users can access the app in the event of a regional outage. Solution: You use Azure Front Door to provide access to the app. Does this meet the goal?

A. Yes

B. No

Answer: A

NEW QUESTION 10

- (Exam Topic 5)

You have an Azure subscription that contains a Basic Azure virtual WAN named Virtual/WAN1 and the virtual hubs shown in the following table.

Name	Azure region		
Hub1	US East		
Hub2	US West		

You have an ExpressRoute circuit in the US East region.

You need to create an ExpressRoute association to VirtualWAN1. What should you do first?

- A. Upgrade VirtualWAN1 to Standard.
- B. Create a gateway on Hub1.



- C. Create a hub virtual network in US East.
- D. Enable the ExpressRoute premium add-on.

Answer: A

Explanation:

US East and US West are in the same geopolitical region so there is no need for enabling ExpressRoute premium add-on https://docs.microsoft.com/en-us/azure/virtual-wan/virtual-wan-about#basicstandard

The current config of virtual WAN is only Basic as given, so it can connect to only site to site VPN, to connect to express route it needs to be upgraded from basic to standard.

https://docs.microsoft.com/en-us/azure/virtual-wan/virtual-wan-about

https://docs.microsoft.com/en-us/azure/virtual-wan/virtual-wan-about

NEW QUESTION 11

- (Exam Topic 5)

You have to deploy an Azure SQL database named db1 for your company. The databases must meet the following security requirements

When IT help desk supervisors query a database table named customers, they must be able to see the full number of each credit card

When IT help desk operators query a database table named customers, they must only see the last four digits of each credit card number

A column named Credit Card rating in the customers table must never appear in plain text in the database system. Only client applications must be able to decrypt the information that is stored in this column

Which of the following can be implemented for the Credit Card rating column security requirement?

- A. Always Encrypted
- B. Azure Advanced Threat Protection
- C. Transparent Data Encryption
- D. Dynamic Data Masking

Answer: A

Explanation:

https://docs.microsoft.com/en-us/sql/relational-databases/security/encryption/always-encrypted-database-engine

NEW QUESTION 12

- (Exam Topic 5)

You have an Azure App Service web app that uses a system-assigned managed identity.

You need to recommend a solution to store their settings of the web app as secrets in an Azure key vault The solution must meet the following requirements:

- Minimize changes to the app code,
- Use the principle of least privilege.

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

Answer Area

Key Vault integration method:

Key Vault references in Application settings
Key Vault references in Appsettings.json
Key Vault references in Web.config
Key Vault SDK

Key Vault permissions for the managed identity:

Keys: Get Keys: List and Get Secrets: Get Secrets: List and Get

Solution:

Answer Area

Key Vault integration method:

Key Vault references in Application settings
Key Vault references in Appsettings.json
Key Vault references in Web.config
Key Vault SDK

Key Vault permissions for the managed identity:

Keys: Get

Keys: List and Get

Secrets: Get

Secrets: List and Get

Does this meet the goal?

A. Yes B. No

Answer: A

NEW QUESTION 13

https://www.surepassexam.com/AZ-305-exam-dumps.html (288 New Questions)

- (Exam Topic 5)

You store web access logs data in Azure Blob storage. You plan to generate monthly reports from the access logs.

You need to recommend an automated process to upload the data to Azure SQL Database every month. What should you include in the recommendation?

A. Azure Data Factory

B. Data Migration Assistant

C. Microsoft SQL Server Migration Assistant (SSMA)

D. AzCopy

Answer: A

Explanation:

Azure Data Factory is the platform that solves such data scenarios. It is the cloud-based ETL and data integration service that allows you to create data-driven workflows for orchestrating data movement and transforming data at scale. Using Azure Data Factory, you can create and schedule data-driven workflows (called pipelines) that can ingest data from disparate data stores. You can build complex ETL processes that transform data visually with data flows or by using compute services such as Azure HDInsight Hadoop, Azure Databricks, and Azure SQL Database.

Reference:

https://docs.microsoft.com/en-gb/azure/data-factory/introduction

NEW QUESTION 14

- (Exam Topic 5)

You plan provision a High Performance Computing (HPC) cluster in Azure that will use a third-party scheduler.

You need to recommend a solution to provision and manage the HPC cluster node. What should you include in the recommendation?

A. Azure Lighthouse

B. Azure CycleCloud

C. Azure Purview

D. Azure Automation

Answer: B

Explanation:

You can dynamically provision Azure HPC clusters with Azure CycleCloud. Azure CycleCloud is the simplest way to manage HPC workloads.

Note: Azure CycleCloud is an enterprise-friendly tool for orchestrating and managing High Performance Computing (HPC) environments on Azure. With CycleCloud, users can provision infrastructure for HPC systems, deploy familiar HPC schedulers, and automatically scale the infrastructure to run jobs efficiently at any scale. Through CycleCloud, users can create different types of file systems and mount them to the compute cluster nodes to support HPC workloads. Reference:

https://docs.microsoft.com/en-us/azure/cyclecloud/overview

NEW QUESTION 15

- (Exam Topic 5)

Your company currently has an application that is hosted on their on-premises environment. The application currently connects to two databases in the on-premises environment. The databases are named whizlabdb1 and whizlabdb2.

You have to move the databases onto Azure. The databases have to support server-side transactions across both of the databases.

Solution: You decide to deploy the databases to an Azure SQL database-managed instance. Would this fulfill the requirement?

A. Yes

B. No

Answer: A

NEW QUESTION 16

- (Exam Topic 5)

Your company plans to deploy various Azure App Service instances that will use Azure SQL databases. The App Service instances will be deployed at the same time as the Azure SQL databases.

The company has a regulatory requirement to deploy the App Service instances only to specific Azure regions. The resources for the App Service instances must reside in the same region.

You need to recommend a solution to meet the regulatory requirement.

Solution: You recommend using the Regulatory compliance dashboard in Microsoft Defender for Cloud. Does this meet the goal?

A. Yes

B. No

Answer: B

NEW QUESTION 17

- (Exam Topic 5)

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

Name	Туре	Performance
storage1	StorageV2	Standard
storage2	SrorageV2	Premium
storage3	BlobStorage	Standard
storage4	FileStorage	Premium



You plan to implement two new apps that have the requirements shown in the following table.

Name Requirement			
App1	Use lifecycle management to migrate app data between storage tiers		
App2	Store app data in an Azure file share		

Which storage accounts should you recommend using for each app? To answer, select the appropriate options in the answer area. NOTE: Each correct selection is worth one point.

App1:

Storage1 and storage2 only
Storage1 and storage3 only
Storage1, storage2, and storage3 only
Storage1, storage2, storage3, and storage4

App2:

Storage4 only
Storage1 and storage4 only
Storage1, storage2, and storage4 only
Storage1, storage2, storage3, and storage4

Solution:

https://docs.microsoft.com/en-us/azure/storage/common/storage-account-overview https://www.edureka.co/community/40011/different-storage-accounts-there-major-difference-between https://insidemstech.com/tag/general-purpose-v2/

In conclusion the correct answers are: Box1 --> Storage1 and Storage3 only Box2 --> Storage1 and Storage4 only https://docs.microsoft.com/en-us/azure/storage/files/storage-how-to-create-file-share?tabs=azure-portal#basics

Does this meet the goal?

A. Yes B. No

Answer: A

NEW QUESTION 18

- (Exam Topic 5)

The accounting department at your company migrates to a new financial accounting software. The accounting department must keep file-based database backups for seven years for compliance purposes. It is unlikely that the backups will be used to recover data.

You need to move the backups to Azure. The solution must minimize costs. Where should you store the backups?

- A. Azure Blob storage that uses the Archive tier
- B. Azure SQL Database
- C. Azure Blob storage that uses the Cool tier
- D. a Recovery Services vault

Answer: A

Explanation:

Azure Front Door enables you to define, manage, and monitor the global routing for your web traffic by optimizing for best performance and instant global failover for high availability. With Front Door, you can transform your global (multi-region) consumer and enterprise applications into robust, high-performance personalized modern applications, APIs, and content that reaches a global audience with Azure.

Front Door works at Layer 7 or HTTP/HTTPS layer and uses anycast protocol with split TCP and Microsoft's global network for improving global connectivity. Reference:

https://docs.microsoft.com/en-us/azure/frontdoor/front-door-overview

NEW QUESTION 19

- (Exam Topic 5)

You have an Azure subscription. The subscription contains 100 virtual machine that am Windows Server. You need to recommend a solution that will provide monitoring and an audit trail of the following modifications:

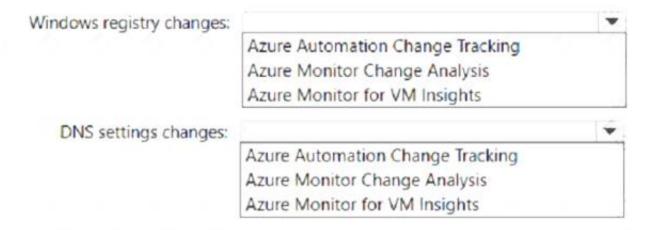
- Changes to the Windows registry on the virtual machines
- Changes to the DNS settings of the virtual machines

The solution must minimize administrative effort.

What should you recommend using for each change? To answer, select the appropriate options in the answer area.

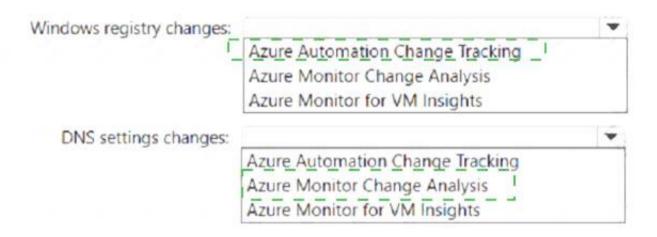
NOTE: Each correct selection is worth one point.

Answer Area



Solution:

Answer Area



Does this meet the goal?

A. Yes B. No

Answer: A

NEW QUESTION 20

- (Exam Topic 5)

Your company, named Contoso, Ltd, implements several Azure logic apps that have HTTP triggers: The logic apps provide access to an on-premises web service. Contoso establishes a partnership with another company named Fabrikam, Inc.

Fabrikam does not have an existing Azure Active Directory (Azure AD) tenant and uses third-party OAuth 2.0 identity management to authenticate its users.

Developers at Fabrikam plan to use a subset of the logics apps to build applications that will integrate with the on-premises web service of Contoso.

You need to design a solution to provide the Fabrikam developers with access to the logic apps. The solution must meet the following requirements:

- Requests to the logic apps from the developers must be limited to lower rates than the requests from the users at Contoso.
- The developers must be able to rely on their existing OAuth 2.0 provider to gain access to the logic apps.
- The solution must NOT require changes to the logic apps.
- The solution must NOT use Azure AD guest accounts.

What should you include in the solution?

- A. Azure AD business-to-business (B2B)
- B. Azure Front Door
- C. Azure API Management
- D. Azure AD Application Proxy

Answer: C

Explanation:

API Management helps organizations publish APIs to external, partner, and internal developers to unlock the potential of their data and services.

You can secure API Management using the OAuth 2.0 client credentials flow. Reference:

https://docs.microsoft.com/en-us/azure/api-management/api-management-key-concepts

https://docs.microsoft.com/en-us/azure/api-management/api-management-features https://docs.microsoft.com/en-us/azure/api-management/api-management-howto-protect-backend-with-aad#ena

NEW QUESTION 21

- (Exam Topic 5)

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 Analysis Services
- B. Application Insights
- C. Azure Monitor action groups
- D. Azure Log Analytics

Answer: D



Explanation:

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:

what operations were taken on the resources in your subscription

Answer Area

- who started the operation
- when the operation occurred
- the status of the operation
- the values of other properties that might help you research the operation

https://docs.microsoft.com/en-us/azure/azure-resource-manager/management/view-activity-logs https://docs.microsoft.com/en-us/azure/automation/changetracking

NEW QUESTION 22

- (Exam Topic 5)

Blades

You have two app registrations named App1 and App2 in Azure AD. App1 supports role-based access control (RBAC) and includes a role named Writer.

You need to ensure that when App2 authenticates to access App1, the tokens issued by Azure AD include the Writer role claim.

Which blade should you use to modify each app registration? To answer, drag the appropriate blades to the correct app registrations. Each blade 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.

API permissions	App1:	Blade
App roles	App2:	Blade
Token configuration	Аррг.	Didde
olution:		
lades	Answer	Area
	Answer	
API permissions	1	Area op1: App roles
API permissions App roles	Ap	

B. No

Answer: A

NEW QUESTION 23

- (Exam Topic 5)

You have the Azure subscriptions shown in the following table.

Name Location		Azure AD tenant
Sub1	East US	contoso.onmicrosoft.com
Sub2	East US	contoso-recovery.onmicrosoft.com

Contoso.onmicrosft.com contains a user named User1.

You need to deploy a solution to protect against ransomware attacks. The solution must meet the following requirements:

- Ensure that all the resources in Sub1 are backed up by using Azure Backup.
- Require that User1 first be assigned a role for Sub2 before the user can make major changes to the backup configuration.

What should you create in each subscription? To answer, select the appropriate options in the answer area. NOTE: Each correct selection is worth one point.



Answer Area



Solution: Answer Area



Does this meet the goal?

A. Yes B. No

Answer: A

NEW QUESTION 24

- (Exam Topic 5)

You have an Azure subscription that is linked to an Azure Active Directory Premium Plan 2 tenant The tenant has multi-factor authentication (MFA) enabled for all users.

You have the named locations shown in the following table.

Name	IP address range	Trusted
NY	192.168.2.0/27	Yes
DC	192.168.1.0/27	No
LA	192.168.3.0/27	No

You have the users shown in the following table.

Name	Device operating system	User-risk level	Matching compliance policies
User1	Windows 10	High	None
User2	Windows 10	Medium	None
User3	macOS	Low	None

You plan to deploy the Conditional Access policies shown in the following table.

Name	Assignment	Conditions: Locations	Conditions: User risk	Conditions: Sign-in risk	Access Control: Grant
CA1	All users	Trusted locations	High, Medium	None	Block access
CA2	All users	NY	None	High, Medium	Block access
CA3	All users	LA	None	None	Grant access: Require device to marked as compliant

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
To ensure that the conditions in CA1 can be evaluated, you must enforce an Azure Active Directory (Azure AD) Identity Protection user risk policy.	0	0
To ensure that the conditions in CA2 can be evaluated, you must enforce an Azure Active Directory (Azure AD) Identity Protection sign-in risk policy.	0	0
To ensure that the conditions in CA3 can be evaluated, you must deploy Microsoft Endpoint Manager.	0	0

Solution:

A screenshot of a computer Description automatically generated with medium confidence

Does this meet the goal?

A. Yes B. No

Answer: A

NEW QUESTION 25

- (Exam Topic 5)

You have an Azure subscription that contains an Azure SQL database. You plan to use Azure reservations on the Azure SQL database. To which resource type will the reservation discount be applied?

- A. vCore compute
- B. DTU compute
- C. Storage
- D. License

Answer: A

Explanation:

Quantity: The amount of compute resources being purchased within the capacity reservation. The quantity is a number of vCores in the selected Azure region and Performance tier that are being reserved and will get the billing discount. For example, if you run or plan to run multiple databases with the total compute capacity of Gen5 16 vCores in the East US region, then you would specify the quantity as 16 to maximize the benefit for all the databases.

Reference:

https://docs.microsoft.com/en-us/azure/azure-sql/database/reserved-capacity-overview

NEW QUESTION 26

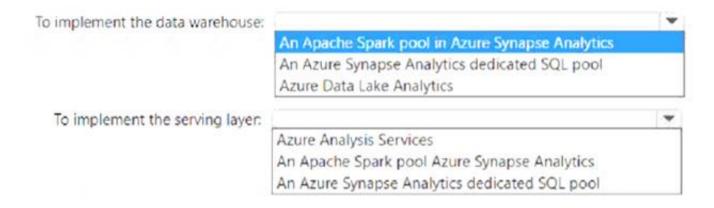
- (Exam Topic 5)

You are designing a data pipeline that will integrate large amounts of data from multiple on-premises Microsoft SQL Server databases into an analytics platform in Azure. The pipeline will include the following actions:

- Database updates will be exported periodically into a staging area in Azure Blob storage.
- Data from the blob storage will be cleansed and transformed by using a highly parallelized load process.
- The transformed data will be loaded to a data warehouse.
- Each batch of updates will be used to refresh an online analytical processing (OLAP) model in a managed serving layer.
- The managed serving layer will be used by thousands of end users. You need to implement the data warehouse and serving layers.

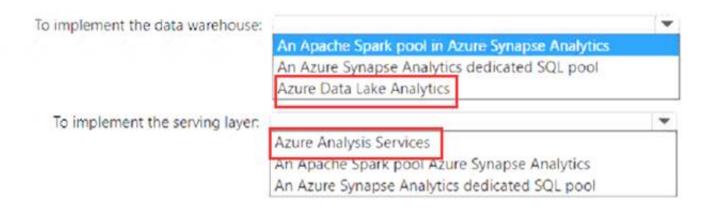
What should you use? To answer, select the appropriate options in the answer area. NOTE: Each correct selection is worth one point.

Answer Area



Solution:

Answer Area



Does this meet the goal?

A. Yes B. No

Answer: A

NEW QUESTION 27

- (Exam Topic 5)

A company needs a datastore created in Azure for an application. Below are the key requirements for the data store.

Ability to store JSON based items

Ability to use SQL like queries on the datastore Ability to provide low latency access to data items

Which of the following would you consider as the data store?

A. Azure BLOB storage

- B. Azure CosmosDB
- C. Azure HDInsight
- D. Azure Redis

Answer: B

NEW QUESTION 28

- (Exam Topic 5)

You have an on-premises storage solution.

You need to migrate the solution to Azure. The solution must support Hadoop Distributed File System (HDFS).

What should you use?

A. Azure Data Lake Storage Gen2

- B. Azure NetApp Files
- C. Azure Data Share
- D. Azure Table storage

Answer: A

NEW QUESTION 29

- (Exam Topic 5)

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 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 two Azure virtual machines to two Azure regions, and you create a Traffic Manager profile.

Does this meet the goal?

A. Yes B. No

Answer: A

Explanation:

Azure Traffic Manager is a DNS-based traffic load balancer that enables you to distribute traffic optimally to services across global Azure regions, while providing high availability and responsiveness.

https://docs.microsoft.com/en-us/azure/traffic-manager/traffic-manager-overview

NEW QUESTION 30

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