

AZ-301 Dumps

Microsoft Azure Architect Design

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NEW QUESTION 1

- (Exam Topic 1)

You need to recommend a solution to meet the database retention requirement. What should you recommend?

- A. Configure a long-term retention policy for the database.
- B. Configure Azure Site Recovery.
- C. Configure geo replication of the database.
- D. Use automatic Azure SQL Database backups.

Answer: A

NEW QUESTION 2

- (Exam Topic 1)

You need to recommend a data storage strategy for WebApp1. What should you include in in the recommendation?

- A. an Azure SQL Database elastic pool
- B. a vCore-based Azure SQL database
- C. an Azure virtual machine that runs SQL Server
- D. a fixed-size DTU AzureSQL database.

Answer: D

NEW QUESTION 3

- (Exam Topic 1)

You need to recommend a strategy for migrating the database content of WebApp1 to Azure. What should you include in the recommendation?

- A. Use Azure Site Recovery to replicate the SQL servers to Azure.
- B. Use SQLServer transactional replication.
- C. Copy the BACPAC file that contains the Azure SQL database file to Azure Blob storage.
- D. Copy the VHD that contains the Azure SQL database files to Azure Blob storage

Answer: C

NEW QUESTION 4

- (Exam Topic 1)

You need to recommend a notification solution for the IT Support distribution group. What should you include in the recommendation?

- A. Azure Network Watcher
- B. an action group
- C. a SendGrid account with advanced reporting
- D. Azure AD Connect Health

Answer: D

Explanation:

References:

<https://docs.microsoft.com/en-us/azure/active-directory/hybrid/how-to-connect-health-operations>

NEW QUESTION 5

- (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 (RTO) 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 account
- B. Configure Azure site Recover
- C. If a failure occurs, initiate a manual failure over.
- D. Store the disks in a Standard_GRS storage account
- E. Configure Azure Recover
- F. If a failure occurs, initiate a manual failover.
- G. Store the disks in a Standard_LRS storage account
- H. If a disaster occurs, manually create the virtual machines by using Azure Resource Manager templates.
- I. Store the disks in a Standard_GRS storage account
- J. If a disaster occurs, manually create the virtual machines by using Azure Resource Manager templates.

Answer: B

NEW QUESTION 6

- (Exam Topic 2)

You have 100 servers that run Windows Server 2012 R2 and host Microsoft SQL Server 2012 R2 instances. The instances host databases that have the following characteristics:

The largest database is currently 3 TB. None of the databases will ever exceed 4 TB.

Stored procedures are implemented by using CLR.

You plan to move all the data from SQL Server to Azure.

You need to recommend an Azure service to host the databases. The solution must meet the following requirements:

Whenever possible, minimize management overhead for the migrated databases.

Minimize the number of database changes required to facilitate the migration.

Ensure that users can authenticate by using their Active Directory credentials.

What should you include in the recommendation?

- A. Azure SQL Database single databases
- B. Azure SQL Database Managed Instance
- C. Azure SQL Database elastic pools
- D. SQL Server 2016 on Azure virtual machines

Answer: B

Explanation:

References:

<https://docs.microsoft.com/en-us/azure/sql-database/sql-database-managed-instance>

NEW QUESTION 7

- (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 8

- (Exam Topic 2)

You use Azure virtual machines to run a custom application that uses an Azure SQL database on the back end. The IT apartment at your company recently enabled forced tunneling,

Since the configuration change, developers have noticed degraded performance when they access the database

You need to recommend a solution to minimize latency when accessing the database. The solution must minimize costs

What should you include in the recommendation? .

- A. Azure SQL Database Managed instance
- B. Azure virtual machines that run Microsoft SQL Server servers
- C. Always On availability groups
- D. virtual network service endpoint

Answer: D

NEW QUESTION 9

- (Exam Topic 2)

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. Microsoft SQL Server Migration Assistant (SSMA)
- B. Azure Data Factory
- C. Data Migration Assistant
- D. AzCopy

Answer: C

NEW QUESTION 10


- (Exam Topic 2)

You are designing a virtual machine that will run Microsoft SQL Server and will contain two data disks. The first data disk will store log files, and the second data disk will store data. Both disks are P40 managed disks.

You need to recommend a caching policy for each disk. The policy must provide the best overall performance for the virtual machine.

Which caching policy should you recommend for each disk? To answer, drag the appropriate policies to the correct disks. Each policy 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.

Policies		Answer Area
None	 	Log: Policy
ReadOnly		Data: Policy
ReadWrite		

- A. Mastered
- B. Not Mastered

Answer: A

Explanation:

References:

<https://docs.microsoft.com/en-us/azure/virtual-machines/windows/sql/virtual-machines-windows-sql-performan>

NEW QUESTION 10

- (Exam Topic 2)

You deploy two instances of an Azure web app. One instance is in the East US Azure region and the other instance is in the West US Azure region. The web app uses Azure Blob storage to deliver large files to end users.

You need to recommend a solution for delivering the files to the users. The solution must meet the following requirements:

Ensure that the users receive files from the same region as the web app that they access.

Ensure that the files only need to be updated once.

Minimize costs.

What should you include in the recommendation?

- A. Azure File Sync
- B. Distributed File System (DFS)
- C. read-access geo-redundant storage (RA-GRS)
- D. geo-redundant storage (GRS)

Answer: C

NEW QUESTION 15

- (Exam Topic 2)

Your company has users who work remotely from laptops.

You plan to move some of the applications accessed by the remote users to Azure virtual machines. The users will access the applications in Azure by using a point-to-site VPN connection. You will use certificates generated from an on-premises-based certification authority (CA).

You need to recommend which certificates are required for the deployment.

What should you include in the recommendation? To answer, drag the appropriate certificates to the correct targets. Each certificate 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.

Certificates		Answer Area
A root CA certificate that has the private key	Trusted Root Certification Authorities certificate store on each laptop: The users' Personal store on each laptop: The Azure VPN gateway:	Certificate
A root CA certificate that has the public key		Certificate
A user certificate that has the private key		Certificate
A user certificate that has the public key		

- A. Mastered
- B. Not Mastered

Answer: A

Explanation:

Certificates	Answer Area
A root CA certificate that has the private key	Trusted Root Certification Authorities certificate store on each laptop:
A root CA certificate that has the public key	The users' Personal store on each laptop:
A user certificate that has the private key	The Azure VPN gateway:
A user certificate that has the public key	

NEW QUESTION 19

- (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 24

- (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 must 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 Active Directory forest in Azure.

Answer: A

NEW QUESTION 26

- (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 a virtual machine scale set that uses autoscaling.

Does this meet the goal?

- A. Yes
- B. No

Answer: B

NEW QUESTION 27

- (Exam Topic 2)

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

You need to use Azure Log Analytics 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.

Tables

AzureActivity

AzureDiagnostics

Event

Syslog

Answer Area

Events from Windows event logs:

Events from Linux system logging:

Table

Table

- A. Mastered
- B. Not Mastered

Answer: A

Explanation:

Tables

AzureActivity

AzureDiagnostics

Event

Syslog

Answer Area

Events from Windows event logs:

Events from Linux system logging:

Event

Syslog

NEW QUESTION 29

- (Exam Topic 2)
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 include in the recommendation?

- A. conditional access policies
- B. Azure Policy
- C. Azure Resource Manager templates
- D. role-based access control (RBAC)

Answer: B

NEW QUESTION 32

- (Exam Topic 2)
You are designing a data protection strategy for Azure virtual machines. All the virtual machines are in the Standard tier and use managed disks.
You need to recommend a solution that meets the following requirements:
The use of encryption keys is audited.
All the data is encrypted at rest always.
You manage the encryption keys, not Microsoft.
What should you include in the recommendation?

- A. BitLocker Drive Encryption (BitLocker)
- B. Azure Storage Service Encryption
- C. client-side encryption
- D. Azure Disk Encryption

Answer: D

Explanation:
References:
<https://docs.microsoft.com/en-us/azure/security/azure-security-disk-encryption-overview>

NEW QUESTION 36

- (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: On RG1, assign the Contributor role to the ResearchUsers group. Create a custom Azure Policy definition and assign the policy to RG1.

Does this meet the goal?

A. Yes

B. No

Answer: A

NEW QUESTION 39

- (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 User Access Administrator role for the Project2 subscription. Assign App2Dev the Owner role for the Project2 subscription.

Does this meet the goal?

A. Yes

B. No

Answer: B

NEW QUESTION 44

- (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 49

- (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 52

- (Exam Topic 2)

Your company identifies the following business continuity and disaster recovery objectives for virtual machines that host sales, finance, and reporting application in the company's on-premises data center.

- The finance application requires that data be retained for seven years. In the event of a disaster, the application must be able to run from Azure. The recovery in objective (RTO) is 10 minutes,

- The reporting application must be able to recover point in-time data at a daily granularity. The RTO is eight hours.

- The sales application must be able to fail over to second on-premises data center.

You need to recommend which Azure services meet the business continuity and disaster recovery objectives. The solution must minimize costs. What should you recommend for each application? To answer, drag the appropriate services to the correct application. Each service may be used once, more than once, or not at all. You may need to drag the spin bar between panes or scroll to view content.

Actions		Answer Area	
Azure Backup only	<div>◀</div> <div>▶</div>	Sales:	Service or Services
Azure Site Recovery only		Finance:	Service or Services
Azure Site Recovery and Azure Backup		Reporting:	Service or Services

- A. Mastered
- B. Not Mastered

Answer: A

Explanation:

Actions		Answer Area	
Azure Backup only	<div>◀</div> <div>▶</div>	Sales:	Azure Site Recovery and Azure Backup
Azure Site Recovery only		Finance:	Azure Backup only
Azure Site Recovery and Azure Backup		Reporting:	Azure Site Recovery only

NEW QUESTION 55

- (Exam Topic 2)

You plan to deploy 200 Microsoft SQL Server databases to Azure by using SQL Database and Azure SQL Database Managed Instance.

You need to recommend a monitoring solution that provides a consistent monitoring approach for all deployments. The solution must meet the following requirements: Support current-state analysis on metrics collected near real-time multiple times per minute and maintained for up to one hour.

Support longer term analysis based on metrics collected multiple times per hour and maintained for up to two weeks.

Support monitoring of the number of concurrent logins and concurrent sessions. What should you include in the recommendation?

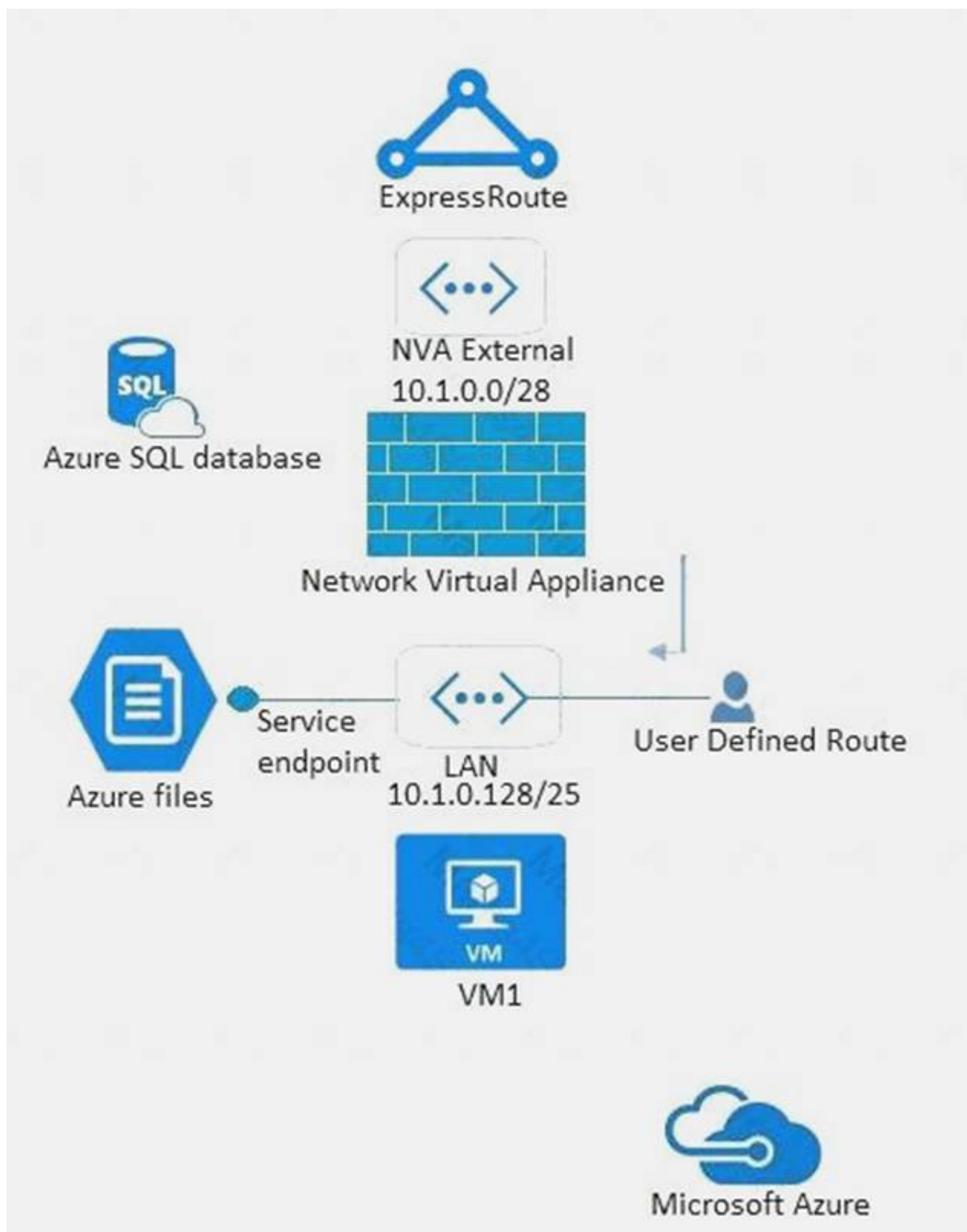
- A. Azure Monitor
- B. dynamic management views
- C. SQL Server-Profiler
- D. trace flags

Answer: D

NEW QUESTION 58

- (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.	<input type="radio"/>	<input type="radio"/>
From VM1, traffic destined to the Azure file share will be routed to the Internet.	<input type="radio"/>	<input type="radio"/>
From VM1, traffic destined to the Azure SQL database will be routed to the Internet.	<input type="radio"/>	<input type="radio"/>

- A. Mastered
B. Not Mastered

Answer: A

Explanation:

References:

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

NEW QUESTION 59

- (Exam Topic 2)

You plan to deploy an API by using Azure API Management.

You need to recommend a solution to protect the API from a distribute derail of service (DDoS) attack. What should you recommend/

- A. Create network security groups (NSG)
- B. Enable rate limiting
- C. Strip the Power-By response header
- D. Enable quotas.

Answer: A

NEW QUESTION 63

- (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 65

- (Exam Topic 2)

You have 100 Standard F2vs-v2 Azure virtual machines. Each virtual machine has two network adapter. You need to increase the network performance of the workloads running an the virtual machine The solution must meet the following requirements.

*The CPU-to-memory ratio must remain the same.

*The solution must minimize costs. What should you do?

- A. Enable SRIOV
- B. Enable ROMA over InfiniBand
- C. Install an additional network adapter.
- D. Configure NIC teaming.

Answer: A

NEW QUESTION 69

- (Exam Topic 2)

You are planning the implementation of an order processing web service that will contain microservices hosted in an Azure Service Fabric cluster.

You need to recommend a solution to provide developers with the ability to proactively identify and fix performance issues. The developers must be able to simulate user connections to the order processing web service from the Internet, as well as simulate user transactions. The developers must be notified if the goals for the transaction response times are not met.

What should you include in the recommendation?

- A. container health
- B. Azure Network Watcher
- C. Application Insights
- D. Service Fabric Analytics

Answer: C

NEW QUESTION 72

- (Exam Topic 3)

You need to recommend a solution for the collection of security logs the middle tier of the payment processing system.

What should you include in the recommendation?

- A. Azure Notification Hubs
- B. the Azure Diagnostics agent
- C. Azure Event Hubs
- D. the Azure Log Analytics agent

Answer: D

Explanation:

References:

<https://docs.microsoft.com/en-us/azure/azure-monitor/platform/diagnostics-extension-overview>

NEW QUESTION 73

- (Exam Topic 3)

You need to recommend a solution for the network configuration of the front-end tier of the payment processing.

What should you include in the recommendation?

- A. Azure Application Gateway
- B. Traffic Manager
- C. a Standard Load Balancer

D. a Basic load Balancer

Answer: B

NEW QUESTION 77

- (Exam Topic 3)

You need to recommend a solution for protecting the content of the back-end tier of the payment processing system.

What should you include in the recommendations?

- A. Always Encrypted with deterministic encryption
- B. Transparent Date Encryption (TDE)
- C. Azure Storage Service Encryption
- D. Always Encrypted with randomized encryption

Answer: A

NEW QUESTION 81

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