Q&A ?

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AZ-305

Designing Microsoft Azure Infrastructure Solutions

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Question: 68

HOTSPOT

You plan to migrate App1 to Azure.

You need to recommend a high-availability solution for App1. The solution must meet the resiliency requirements.

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

Number of host groups:

1
2
3
6

Number of virtual machine scale sets:

0
1
3

Answer:

Number of host groups:

1
2
3
6

Number of virtual machine scale sets:

0
1
3

Explanation:

Graphical user interface, text, application, email

Description automatically generated

Box 1: 3

Scenario: App1 must meet the following requirements:

   Be hosted in an Azure region that supports availability zones.

   Maintain availability if two availability zones in the local Azure region fail.

A host group is a resource that represents a collection of dedicated hosts. You create a host group in a region and an availability zone, and add hosts to it.

Use Availability Zones for fault isolation

Availability zones are unique physical locations within an Azure region. Each zone is made up of one or more datacenters equipped with independent power, cooling, and networking. A host group is created in a single availability zone. Once created, all hosts will be placed within that zone. To achieve high availability across zones, you need to create multiple host groups (one per zone) and spread your hosts accordingly.

Box 2: 1

Scenario: App1 must meet the following requirements:

   Be hosted on Azure virtual machines that support automatic scaling.

An Azure virtual machine scale set can automatically increase or decrease the number of VM instances that run your application. This automated and elastic behavior reduces the management overhead to monitor and optimize the performance of your application.

Question: 69

HOTSPOT

You plan to migrate DB1 and DB2 to Azure.

You need to ensure that the Azure database and the service tier meet the resiliency and business requirements.

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

Answer Area

Database:
A single Azure SQL database
Azure SQL Managed Instance
An Azure SQL Database elastic pool

Service tier:
Hyperscale
Business Critical
General Purpose

Answer:
Answer Area

Database:

A single Azure SQL database
Azure SQL Managed Instance
An Azure SQL Database elastic pool

Service tier:

Hyperscale
Business Critical
General Purpose
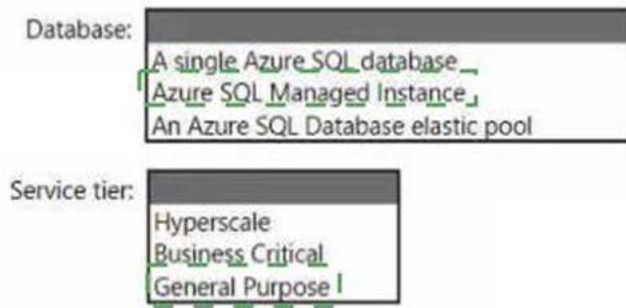
Question: 70

You have an Azure subscription that contains a storage account.

An application sometimes writes duplicate files to the storage account.

You have a PowerShell script that identifies and deletes duplicate files in the storage account. Currently, the script is run manually after approval from the operations manager.

You need to recommend a serverless solution that performs the following actions:

Runs the script once an hour to identify whether duplicate files exist

Sends an email notification to the operations manager requesting approval to delete the duplicate files

Processes an email response from the operations manager specifying whether the deletion was approved

Runs the script if the deletion was approved

What should you include in the recommendation?
A. Azure Logic Apps and Azure Functions
B. Azure Pipelines and Azure Service Fabric
C. Azure Logic Apps and Azure Event Grid
D. Azure Functions and Azure Batch

Answer: A

Explanation:

You can schedule a powershell script with Azure Logic Apps.

When you want to run code that performs a specific job in your logic apps, you can create your own function by using Azure Functions. This service helps you create Node.js, C#, and F# functions so you don't have to build a complete app or infrastructure to run code. You can also call logic apps from inside Azure functions. Azure Functions provides serverless computing in the cloud and is useful for performing tasks such as these examples:

Reference: https://docs.microsoft.com/en-us/azure/logic-apps/logic-apps-azure-functions

Question: 71

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

Question: 72

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: B

Question: 73

HOTSPOT

Your company has the divisions shown in the following table.

Division	Azure subscription	Azure Active Directory (Azure AD) tenant
East	Sub1, Sub2	East.contoso.com
West	Sub3, Sub4	West.contoso.com

You plan to deploy a custom application to each subscription.

The application will contain the following:

  A resource group

  An Azure web app

  Custom role assignments

  An Azure Cosmos DB account

You need to use Azure Blueprints to deploy the application to each subscription.

What is the minimum number of objects required to deploy the application? To answer, select the appropriate options in the answer area. NOTE: Each correct selection is worth one point.

Management groups:
1
2
3
4

Blueprint definitions:
1
2
3
4

Blueprint assignments:
1
2
3
4

Answer:

Management groups:

1
2
3
4

Blueprint definitions:

1
2
3
4

Blueprint assignments:

1
2
3
4

Explanation:

Box 1: 2

One management group for East, and one for West.

When creating a blueprint definition, you'll define where the blueprint is saved. Blueprints can be saved to a management group or subscription that you have Contributor access to. If the location is a management group, the blueprint is available to assign to any child subscription of that management group.

Box 2: 2

Box 3: 4

One assignment for each subscription.

"Assigning a blueprint definition to a management group means the assignment object exists at the management group. The deployment of artifacts still targets a subscription. To perform a management group assignment, the Create Or Update REST API must be used and the request body must include a value for properties.scope to define the target subscription." https://docs.microsoft.com/en-us/azure/governance/blueprints/overview#blueprint-assignment

Question: 74

You ate designing a SQL database solution. The solution will include 20 databases that will be 20 GB each and have varying usage patterns. You need to recommend a database platform to host the databases.

The solution must meet the following requirements:

• The compute resources allocated to the databases must scale dynamically.

• The solution must meet an SLA of 99.99% uptime.

• The solution must have reserved capacity.

• Compute charges must be minimized.

What should you include in the recommendation?
A. 20 databases on a Microsoft SQL server that runs on an Azure virtual machine
B. 20 instances of Azure SQL Database serverless
C. 20 databases on a Microsoft SQL server that runs on an Azure virtual machine in an availability set
D. an elastic pool that contains 20 Azure SQL databases

Answer: D

Explanation:

Azure SQL Database elastic pools are a simple, cost-effective solution for managing and scaling multiple databases that have varying and unpredictable usage demands. The databases in an elastic pool are on a single server and share a set number of resources at a set price. Elastic pools in Azure SQL Database enable SaaS developers to optimize the price performance for a group of databases within a prescribed budget while delivering performance elasticity for each database.

Guaranteed 99.995 percent uptime for SQL Database

Reference:

https://docs.microsoft.com/en-us/azure/azure-sql/database/elastic-pool-overview

https://azure.microsoft.com/en-us/pricing/details/sql-database/elastic/

https://www.azure.cn/en-us/support/sla/virtual-machines/

https://techcommunity.microsoft.com/t5/azure-sql/optimize-price-performance-with-compute-auto-scaling-in-azure/ba-p/966149
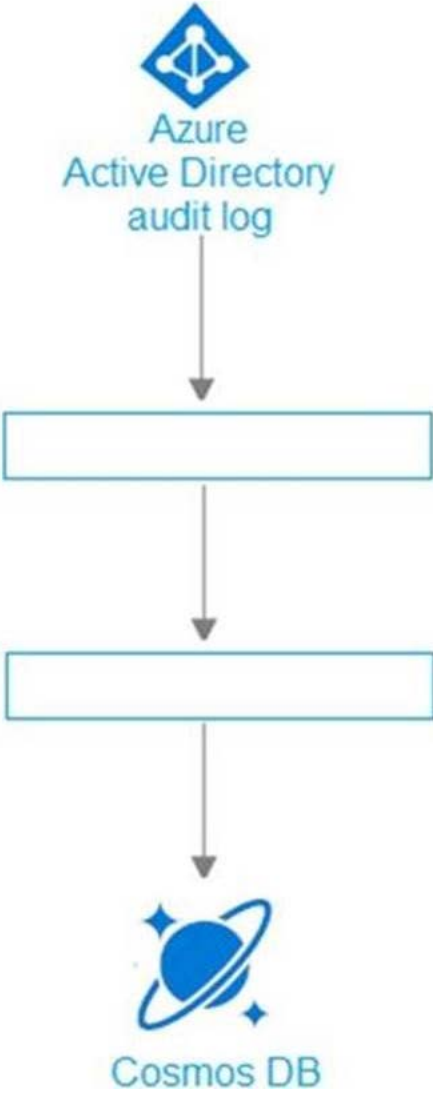
Question: 75

DRAG DROP

You need to design an architecture to capture the creation of users and the assignment of roles. The captured data must be stored in Azure Cosmos DB.

Which Azure services should you include in the design? To answer, drag the appropriate services to the correct targets. Each service 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.
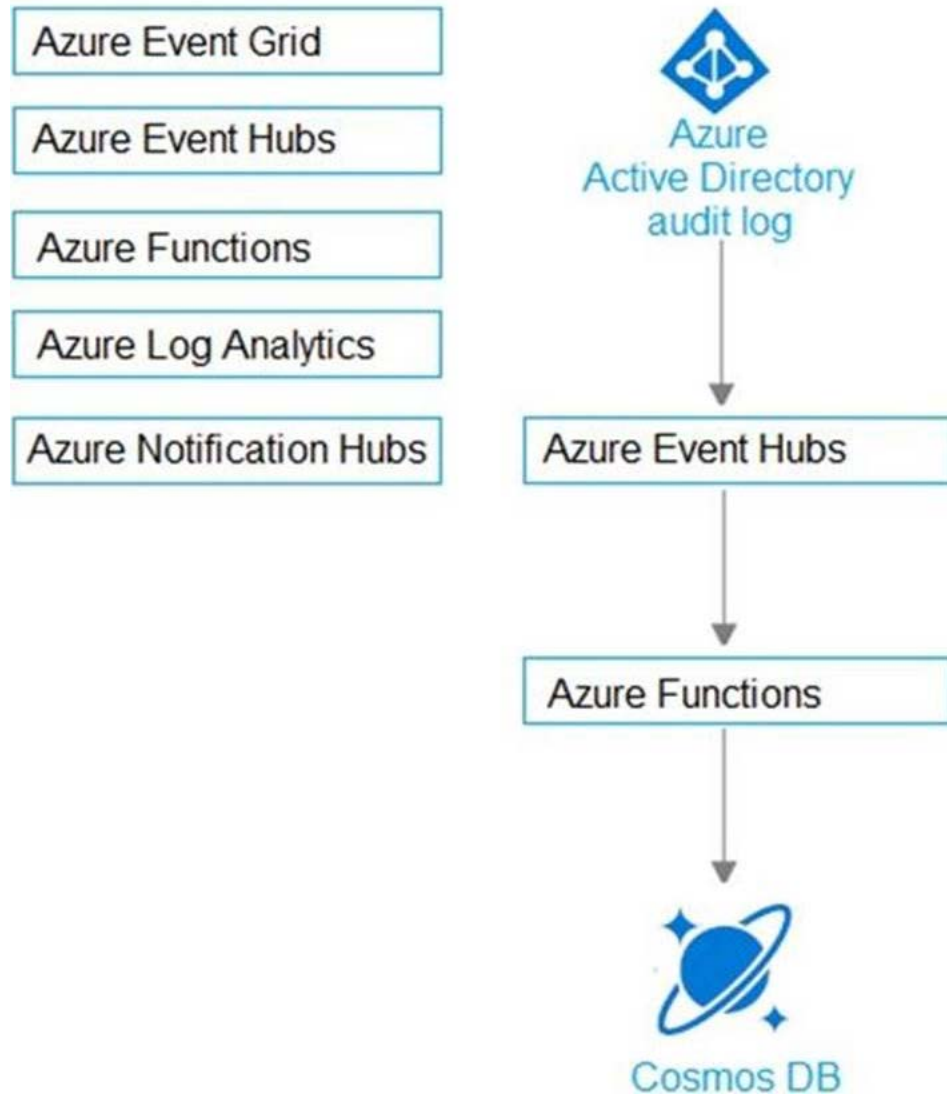
Azure Services

- Azure Event Grid
- Azure Event Hubs
- Azure Functions
- Azure Log Analytics
- Azure Notification Hubs

Answer Area

Azure
Active Directory
audit log

↓

[ ]

↓

[ ]

↓

Cosmos DB

Answer:

Azure Services

Azure Event Grid
Azure Event Hubs
Azure Functions
Azure Log Analytics
Azure Notification Hubs

Answer Area

Azure Active Directory audit log

↓

Azure Event Hubs

↓

Azure Functions

↓

Cosmos DB

Explanation:

Diagram

Description automatically generated

DRAG DROP

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

None
ReadOnly
ReadWrite

Answer Area

Log: [Policy]

Data: [Policy]

Answer:

Policies

None
ReadOnly
ReadWrite

Answer Area

Log: [None]

Data: [ReadOnly]

Explanation:

Graphical user interface, application

Description automatically generated

References: https://docs.microsoft.com/en-us/azure/virtual-machines/windows/sql/virtual-machines-windows-sql-performance

Question: 77

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 Pricing calculator
C. Azure Migrate
D. Azure Advisor

Answer: C

Explanation:

https://docs.microsoft.com/en-us/azure/migrate/migrate-appliance#collected-data—vmware

"Metadata discovered by the Azure Migrate appliance helps you to figure out whether servers are ready for migration to Azure, right-size servers, plans costs, and analyze application dependencies".

https://docs.microsoft.com/en-us/learn/modules/design-your-migration-to-azure/2-plan-your-azure-migration

Question: 78

HOTSPOT

Your on-premises network contains a file server named Server1 that stores 500 GB of data.

You need to use Azure Data Factory to copy the data from Server1 to Azure Storage.

You add a new data factory.

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

From Server1:

| Install an Azure File Sync agent |
| Install a self-hosted integration runtime |
| Install the File Server Resource Manager role service |

From the data factory:

| Create a pipeline |
| Create an import/export job |
| Provision an Azure-SQL Server Integration Services (SSIS) integration runtime |

Answer:

From Server1:

| Install an Azure File Sync agent |
| Install a self-hosted integration runtime |
| Install the File Server Resource Manager role service |

From the data factory:

| Create a pipeline |
| Create an import/export job |
| Provision an Azure-SQL Server Integration Services (SSIS) integration runtime |

Explanation:

Graphical user interface, text, application, email

Description automatically generated

Box 1: Install a self-hosted integration runtime

The Integration Runtime is a customer-managed data integration infrastructure used by Azure Data Factory to provide data integration capabilities across different network environments.

Box 2: Create a pipeline

With ADF, existing data processing services can be composed into data pipelines that are highly available and managed in the cloud. These data pipelines can be scheduled to ingest, prepare, transform, analyze, and publish data, and ADF manages and orchestrates the complex data and processing dependencies

References:

https://docs.microsoft.com/en-us/azure/machine-learning/team-data-science-process/move-sql-azure-adf

https://docs.microsoft.com/pl-pl/azure/data-factory/tutorial-hybrid-copy-data-toolsyu31svc 3 months, 4 weeks ago

https://docs.microsoft.com/en-us/azure/data-factory/create-self-hosted-integration-runtime?tabs=data-factory

"A self-hosted integration runtime can run copy activities between a cloud data store and a data store in a private network"

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

"With Data Factory, you can use the Copy Activity in a data pipeline to move data from both on-premises and cloud source data stores to a centralization data store in the cloud for further analysis"

Question: 79

HOTSPOT

You plan to create an Azure Storage account that will host file shares. The shares will be accessed from on-premises applications that are transaction-intensive.

You need to recommend a solution to minimize latency when accessing the file shares.

The solution must provide the highest-level of resiliency for the selected storage tier.

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

Storage tier:
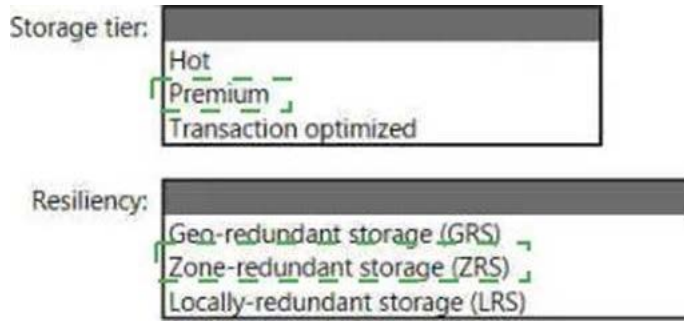
Hot
Premium
Transaction optimized

Resiliency:

Geo-redundant storage (GRS)
Zone-redundant storage (ZRS)
Locally-redundant storage (LRS)

Answer:

Storage tier:	
	Hot
	⌐Premium⌐
	Transaction optimized

Resiliency:	
	Geo-redundant storage (GRS) ⌐
	Zone-redundant storage (ZRS) ⌐
	Locally-redundant storage (LRS)

Explanation:

Box 1: Premium

Premium: Premium file shares are backed by solid-state drives (SSDs) and provide consistent high performance and low latency, within single-digit milliseconds for most IO operations, for IO-intensive workloads.

Box 2: Zone-redundant storage (ZRS):

Premium Azure file shares only support LRS and ZRS. Zone-redundant storage (ZRS): With ZRS, three copies of each file stored, however these copies are physically isolated in three distinct storage clusters in different Azure availability zones.
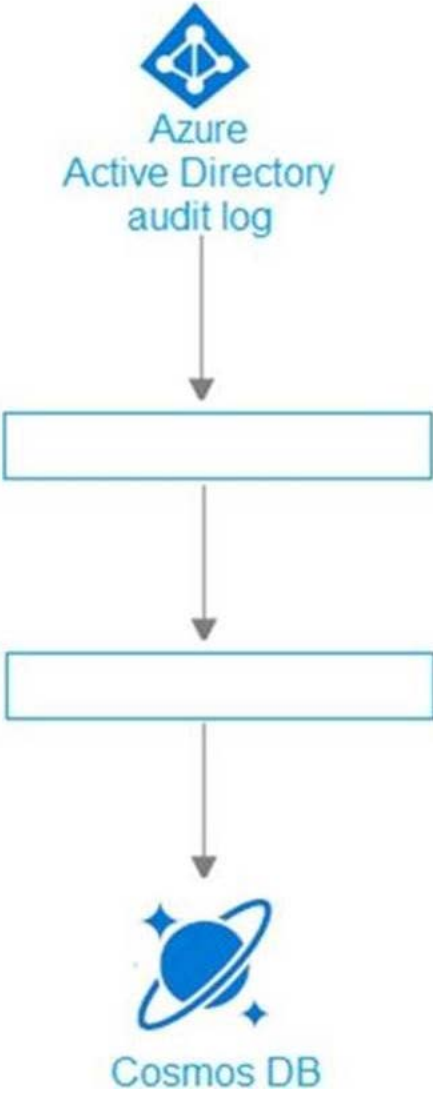
Question: 80

DRAG DROP

You need to design an architecture to capture the creation of users and the assignment of roles. The captured data must be stored in Azure Cosmos DB.

Which Azure services should you include in the design? To answer, drag the appropriate services to the correct targets. Each service 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.

Azure Services

Azure Event Grid

Azure Event Hubs

Azure Functions

Azure Log Analytics

Azure Notification Hubs

Answer Area

Azure
Active Directory
audit log

↓

↓

↓

Cosmos DB

Answer:

Azure Services

Azure Event Grid

Azure Event Hubs

Azure Functions

Azure Log Analytics

Azure Notification Hubs

Answer Area

Azure
Active Directory
audit log

↓

Azure Event Hubs

↓

Azure Functions

↓

Cosmos DB
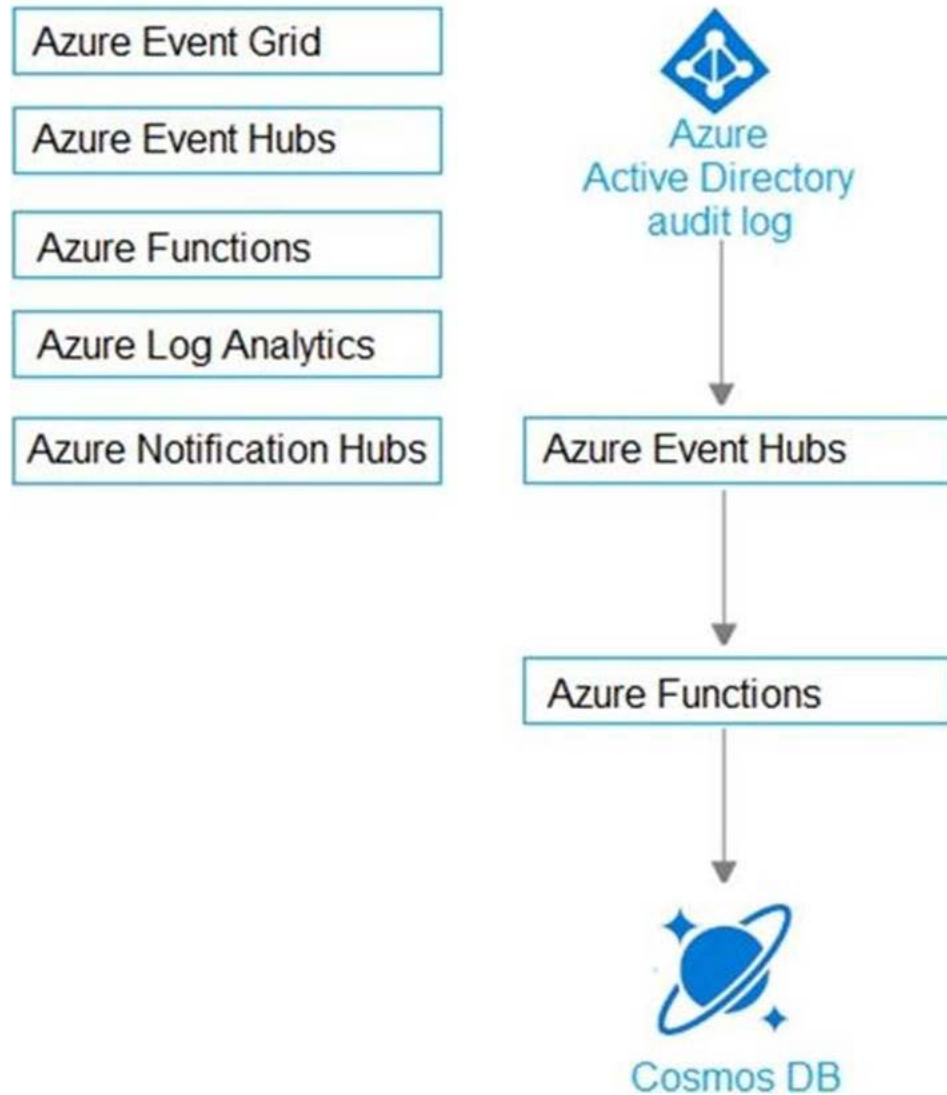
Explanation:

Diagram

Description automatically generated

Question: 81

HOTSPOT

You have an Azure Load Balancer named LB1 that balances requests to five Azure virtual machines.

You need to develop a monitoring solution for LB1.

The solution must generate an alert when any of the following conditions are met:

  A virtual machine is unavailable.

  Connection attempts exceed 50,000 per minute.

Which signal should you include in the solution for each condition? To answer, select the appropriate options in the answer area. NOTE: Each correct selection is worth one point.

An unavailable virtual machine:

| Byte Count |
| Data Path Availability |
| Health Probe Status |
| Packet Count |
| SYN Count |

More than 50,000 connection attempts per minute:

| Byte Count |
| Data Path Availability |
| Health Probe Status |
| Packet Count |
| SYN Count |

Answer:

An unavailable virtual machine:

| Byte Count |
| **Data Path Availability** |
| Health Probe Status |
| Packet Count |
| SYN Count |

More than 50,000 connection attempts per minute:

| Byte Count |
| Data Path Availability |
| Health Probe Status |
| Packet Count |
| **SYN Count** |

Explanation:

Graphical user interface, text, application

Description automatically generated

Box 1: Data path availability

Standard Load Balancer continuously exercises the data path from within a region to the load balancer front end, all the way to the SDN stack that supports your VM. As long as healthy instances remain, the measurement follows the

same path as your application's load-balanced traffic. The data path that your customers use is also validated. The measurement is invisible to your application and does not interfere with other operations.

Note: Load balancer distributes inbound flows that arrive at the load balancer's front end to backend pool instances. These flows are according to configured load-balancing rules and health probes. The backend pool instances can be Azure Virtual Machines or instances in a virtual machine scale set.

Box 2: SYN count

SYN (synchronize) count: Standard Load Balancer does not terminate Transmission Control Protocol (TCP) connections or interact with TCP or UDP packet flows. Flows and their handshakes are always between the source and the VM instance. To better troubleshoot your TCP protocol scenarios, you can make use of SYN packets counters to understand how many TCP connection attempts are made. The metric reports the number of TCP SYN packets that were received.

Question: 82

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.

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: Use the Azure Traffic Analytics solution in Azure Log Analytics 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.

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

SAMPLE QUESTIONS

KILL EXAMS

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