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Designing Microsoft Azure Infrastructure Solutions

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Microsoft Designing Microsoft Azure Infrastructure Solutions Sample Questions (Q261-Q266):

NEW QUESTION # 261

You need to recommend a solution to ensure that App1 can access the third-party credentials and access strings. The solution must meet the security 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.

Authenticate App1 by using:

A certificate
A service principal
A system-assigned managed identity
A user-assigned managed identity

Authorize App1 to retrieve Key Vault secrets by using:

An access policy
A connected service
A private link
A role assignment

Answer:

Explanation:

Authenticate App1 by using:

A certificate
A service principal
A system-assigned managed identity
A user-assigned managed identity

Authorize App1 to retrieve Key Vault secrets by using:

An access policy
A connected service
A private link
A role assignment

Explanation

Graphical user interface, text, application, table Description automatically generated

Authenticate App1 by using:

A certificate
A service principal
A system-assigned managed identity
A user-assigned managed identity

Authorize App1 to retrieve Key Vault secrets by using:

An access policy
A connected service
A private link
A role assignment

Scenario: Security Requirement

All secrets used by Azure services must be stored in Azure Key Vault.

Services that require credentials must have the credentials tied to the service instance. The credentials must NOT be shared between services.

Box 1: A service principal

A service principal is a type of security principal that identifies an application or service, which is to say, a piece of code rather than a user or group. A service principal's object ID is known as its client ID and acts like its username. The service principal's client secret acts like its password.

Note: Authentication with Key Vault works in conjunction with Azure Active Directory (Azure AD), which is responsible for authenticating the identity of any given security principal.

A security principal is an object that represents a user, group, service, or application that's requesting access to Azure resources. Azure assigns a unique object ID to every security principal.

Box 2: A role assignment

You can provide access to Key Vault keys, certificates, and secrets with an Azure role-based access control.

Reference:

<https://docs.microsoft.com/en-us/azure/key-vault/general/authentication>

NEW QUESTION # 262

You plan to migrate App1 to Azure.

You need to estimate the compute costs for App1 in Azure. The solution must meet the security and compliance requirements.

What should you use to estimate the costs, and what should you implement to minimize the costs? To answer, select the appropriate options in the answer area.

NOTE: Each correct selection is worth one point.

To estimate the costs use:

Azure Advisor
The Azure Cost Management Power BI app
The Azure Total Cost of Ownership (TCO) calculator

Implement:

Azure Reservations
Azure Hybrid Benefit
Azure Spot Virtual Machine pricing

Answer:

Explanation:

To estimate the costs, use:

Azure Advisor
The Azure Cost Management Power BI app
The Azure Total Cost of Ownership (TCO) calculator

Implement:

Azure Reservations
Azure Hybrid Benefit
Azure Spot Virtual Machine pricing

Explanation

Text Description automatically generated

To estimate the costs, use:

Azure Advisor
The Azure Cost Management Power BI app
The Azure Total Cost of Ownership (TCO) calculator

Implement:

Azure Reservations
Azure Hybrid Benefit
Azure Spot Virtual Machine pricing

Box 1: The Azure Total Cost of Ownership (TCO) Calculator

The Total Cost of Ownership (TCO) Calculator estimates the cost savings you can realize by migrating your workloads to Azure. Note: The TCO Calculator recommends a set of equivalent services in Azure that will support your applications. Our analysis will show each cost area with an estimate of your on-premises spend versus your spend in Azure. There are several cost categories that either decrease or go away completely when you move workloads to the cloud.

Box 2: Azure Hybrid Benefit

Azure Hybrid Benefit is a licensing benefit that helps you to significantly reduce the costs of running your workloads in the cloud. It works by letting you use your on-premises Software Assurance-enabled Windows Server and SQL Server licenses on Azure. And now, this benefit applies to RedHat and SUSE Linux subscriptions, too.

Scenario:

Litware identifies the following security and compliance requirements:

- * Once App1 is migrated to Azure, you must ensure that new data can be written to the app, and the modification of new and existing data is prevented for a period of three years.
- * On-premises users and services must be able to access the Azure Storage account that will host the data in App1.
- * Access to the public endpoint of the Azure Storage account that will host the App1 data must be prevented.
- * All Azure SQL databases in the production environment must have Transparent Data Encryption (TDE) enabled.
- * App1 must not share physical hardware with other workloads.

Reference:

<https://azure.microsoft.com/en-us/pricing/tco/>

<https://azure.microsoft.com/en-us/pricing/hybrid-benefit/>

NEW QUESTION # 263

You are evaluating whether to use Azure Traffic Manager and Azure Application Gateway to meet the connection requirements for App1.

What is the minimum numbers of instances required for each service? To answer, select the appropriate options in the answer area.

NOTE: Each correct selection is worth one point.

Answer Area**Answer:****Explanation:****NEW QUESTION # 264**

You are designing a data analytics solution that will use Azure Synapse and Azure Data Lake Storage Gen2.

You need to recommend Azure Synapse pools to meet the following requirements:

- * Ingest data from Data Lake Storage into hash-distributed tables.
- * Implement, query, and update data in Delta Lake.

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

Answer Area

Ingest data from Data Lake Storage into hash-distributed tables: A dedicated SQL pool

Implement, query, and update data in Delta Lake: A serverless SQL pool

Microsoft

Answer:**Explanation:****Answer Area**

Ingest data from Data Lake Storage into hash-distributed tables: A dedicated SQL pool

Implement, query, and update data in Delta Lake: A serverless SQL pool

Microsoft

Explanation:**Answer Area**

Ingest data from Data Lake Storage into hash-distributed tables: A dedicated SQL pool

Implement, query, and update data in Delta Lake: A serverless SQL pool

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NEW QUESTION # 265

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.

The screenshot shows a Microsoft Azure interface with a list of monitoring metrics. For the condition 'An unavailable virtual machine:', the 'Data Path Availability' metric is selected. For the condition 'More than 50,000 connection attempts per minute:', the 'SYN Count' metric is selected.

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:

Explanation:

The screenshot shows a Microsoft Azure interface with a list of monitoring metrics. For the condition 'An unavailable virtual machine:', the 'Data Path Availability' metric is selected. For the condition 'More than 50,000 connection attempts per minute:', the 'SYN Count' metric is selected.

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

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



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.

Reference:

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

NEW QUESTION # 266

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