AZ-301^{Q&As}

Microsoft Azure Architect Design

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QUESTION 1

HOTSPOT

You have databases in Azure as shown in the following table.

Name	Type	Pricing tier
SQLdb1	Azure SQL Database	Basic
SQLdb2	Azure SQL Database	Standard
SQLdb3	Azure SQL Database	Premium
DW1	Azure SQL Data Warehouse	*Not available*

You are designing a data retention policy.

You need to identify which databases can retain a daily backup for up to 35 days and which databases can retain monthly backups for up to 120 months.

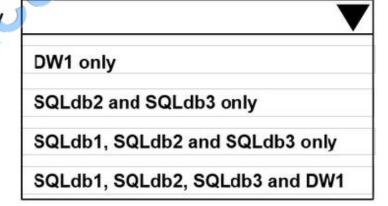Which databases should you identify? To answer, select the appropriate options in the answer area.

NOTE: Each correct selection is worth one point.

Hot Area:

Databases that can retain a daily backup for up to 35 days:

- DW1 only
- SQLdb2 and SQLdb3 only
- SQLdb1, SQLdb2 and SQLdb3 only
- SQLdb1, SQLdb2, SQLdb3 and DW1

Databases that can retain monthly backups for up to 120 months:

- DW1 only
- SQLdb2 and SQLdb3 only
- SQLdb1, SQLdb2 and SQLdb3 only
- SQLdb1, SQLdb2, SQLdb3 and DW1

Correct Answer:

Databases that can retain a daily backup for up to 35 days:
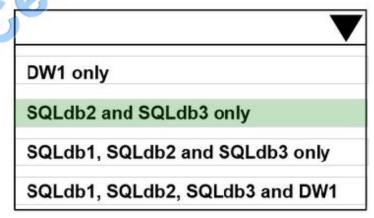
DW1 only
SQLdb2 and SQLdb3 only
SQLdb1, SQLdb2 and SQLdb3 only
SQLdb1, SQLdb2, SQLdb3 and DW1

Databases that can retain monthly backups for up to 120 months:

DW1 only
SQLdb2 and SQLdb3 only
SQLdb1, SQLdb2 and SQLdb3 only
SQLdb1, SQLdb2, SQLdb3 and DW1

QUESTION 2

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.
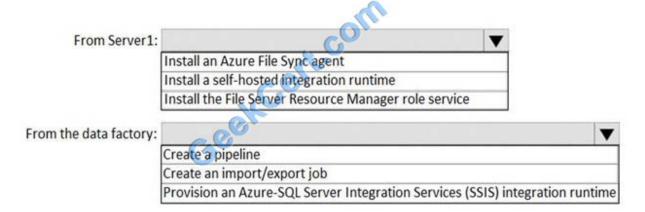
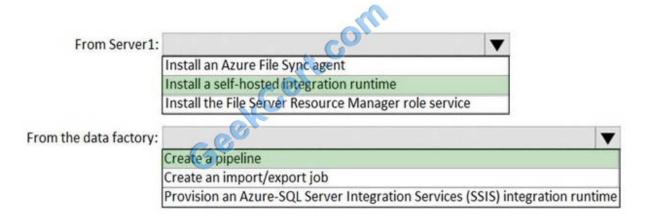NOTE: Each correct selection is worth one point.

Hot Area:

Answer Area

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

Correct Answer:

Answer Area

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

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

QUESTION 3

HOTSPOT

You are designing an access policy for the sales department at your company.

Occasionally, the developers at the company must stop, start, and restart Azure virtual machines. The development team changes often.

You need to recommend a solution to provide the developers with the required access to the virtual machines. The solution must meet the following requirements:

1.

Provide permissions only when needed.

2.

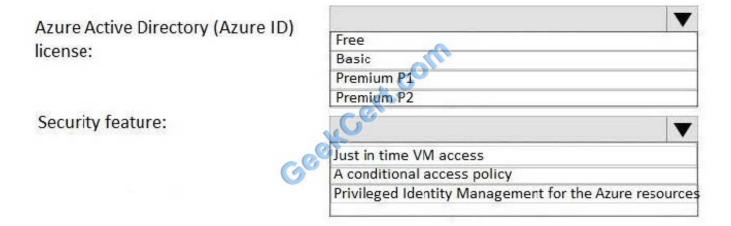Use the principle of least privilege.

3.

Minimize costs.

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.

Hot Area:

Azure Active Directory (Azure ID) license:	▼
	Free
	Basic
	Premium P1
	Premium P2

Security feature:	▼
	Just in time VM access
	A conditional access policy
	Privileged Identity Management for the Azure resources

Correct Answer:

Azure Active Directory (Azure ID) license:

| ▼ |
| Free |
| Basic |
| Premium P1 |
| Premium P2 |

Security feature:

| ▼ |
| Just in time VM access |
| A conditional access policy |
| Privileged Identity Management for the Azure resources |

QUESTION 4

HOTSPOT

You are building an application that will run in a virtual machine (VM). The application will use Managed Service Identity (MSI).

The application uses Azure Key Vault, Azure SQL Database, and Azure Cosmos DB.

You need to ensure the application can use secure credentials to access these services.

Which authorization methods should you recommend? To answer, select the appropriate options in the answer area.

NOTE: Each correct selection is worth one point.

Hot Area:

Azure Key Vault

▼
Hash-based message authentication code (HMAC)
Managed Service Identity (MSI)
Role-Based Access Controls (RBAC)
HTTPS encryption

Azure SQL

▼
Hash-based message authentication code (HMAC)
Managed Service Identity (MSI)
Role-Based Access Controls (RBAC)
HTTPS encryption

Cosmos DB

▼
Hash-based message authentication code (HMAC)
Managed Service Identity (MSI)
Role-Based Access Controls (RBAC)
HTTPS encryption

Correct Answer:

Azure Key Vault

▼
Hash-based message authentication code (HMAC)
Managed Service Identity (MSI)
Role-Based Access Controls (RBAC)
HTTPS encryption

Azure SQL

▼
Hash-based message authentication code (HMAC)
Managed Service Identity (MSI)
Role-Based Access Controls (RBAC)
HTTPS encryption

Cosmos DB

▼
Hash-based message authentication code (HMAC)
Managed Service Identity (MSI)
Role-Based Access Controls (RBAC)
HTTPS encryption

Explanation:

Note: Managed identities for Azure resources is the new name for the service formerly known as Managed Service Identity (MSI).

Reference: https://docs.microsoft.com/en-us/azure/active-directory/managed-identities-azure-resources/overview

QUESTION 5

You manage a solution in Azure.

You must collect usage data including MAC addresses from all devices on the network.

You need to recommend a monitoring solution.

What should you recommend?

A. Activity Log Analytics

B. Azure Network Security Group Analytics

C. Network Performance Monitor

D. Azure Application Gateway Analytics

E. Azure Wire Data

Correct Answer: B

A network security group (NSG) includes rules that allow or deny traffic to a virtual network subnet, network interface, or both. When you enable diagnostic logging for an NSG, you can log the following categories of information:

Event: Entries are logged for which NSG rules are applied to VMs, based on MAC address. The status for these rules is collected every 60 seconds. Rule counter: Contains entries for how many times each NSG rule is applied to deny or allow traffic.

Reference: https://docs.microsoft.com/en-us/azure/virtual-network/virtual-network-nsg-manage-log

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