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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              |   |

**Correct 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              |   |

**QUESTION 47**

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You have an application named App1. App1 generates log files that must be archived for five years. The log files must be readable by App1 but must not be modified. Which storage solution should you recommend for archiving?

- A. Ingest the log files into an Azure Log Analytics workspace
- B. Use an Azure Blob storage account and a time-based retention policy
- C. Use an Azure Blob storage account configured to use the Archive access tier
- D. Use an Azure file share that has access control enabled

**Correct Answer: B**

**Explanation:**

Immutable storage for Azure Blob storage enables users to store business-critical data objects in a WORM (Write Once, Read Many) state.

Immutable storage supports:

Time-based retention policy support: Users can set policies to store data for a specified interval. When a time-based retention policy is set, blobs can be created and read, but not modified or deleted. After the retention period has expired, blobs can be deleted but not overwritten.

Reference:

<https://docs.microsoft.com/en-us/azure/storage/blobs/storage-blob-immutable-storage>

### **QUESTION 48**

#### **HOTSPOT**

Your company has two on-premises sites in New York and Los Angeles and Azure virtual networks in the East US Azure region and the West US Azure region. Each on-premises site has Azure ExpressRoute circuits to both regions.

You need to recommend a solution that meets the following requirements:

- Outbound traffic to the Internet from workloads hosted on the virtual networks must be routed through the closest available on-premises site.
- If an on-premises site fails, traffic from the workloads on the virtual networks to the Internet must reroute automatically to the other site.

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.

|   |   |
|---|---|
| Routing from the virtual networks to the on-premises locations must be configured by using: | <div><div>▼</div><div>Azure default routes</div><div>Border Gateway Protocol (BGP)</div><div>User-defined routes</div></div>                                      |
| The automatic routing configuration following a failover must be handled by using:          | <div><div>▼</div><div>Border Gateway Protocol (BGP)</div><div>Hot Standby Routing Protocol (HSRP)</div><div>Virtual Router Redundancy Protocol (VRRP)</div></div> |

**Correct Answer:**

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|   |  |
|---|--|
| Routing from the virtual networks to the on-premises locations must be configured by using: | <div><div></div><div>Azure default routes</div><div>Border Gateway Protocol (BGP)</div><div>User-defined routes</div></div>                                      |
| The automatic routing configuration following a failover must be handled by using:          | <div><div></div><div>Border Gateway Protocol (BGP)</div><div>Hot Standby Routing Protocol (HSRP)</div><div>Virtual Router Redundancy Protocol (VRRP)</div></div> |

### QUESTION 49

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

**Correct Answer: B**

**Explanation:**

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

SQL Managed Instance allows existing SQL Server customers to lift and shift their on-premises applications to the cloud with minimal application and database changes. At the same time, SQL Managed Instance preserves all PaaS capabilities (automatic patching and version updates, automated backups, high availability) that drastically reduce management overhead and TCO.

<https://docs.microsoft.com/en-us/azure/azure-sql/managed-instance/transact-sql-tsql-differences-sql-server#clr>

<https://docs.microsoft.com/en-gb/azure/azure-sql/database/transact-sql-tsql-differences-sql-server#transact-sql-syntax-not-supported-in-azure-sql-database>

### QUESTION 50

You plan to archive 10 TB of on-premises data files to Azure.

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You need to recommend a data archival solution. The solution must minimize the cost of storing the data files.

Which Azure Storage account type should you include in the recommendation?

- A. Standard StorageV2 (general purpose v2)
- B. Standard Storage (general purpose v1)
- C. Premium StorageV2 (general purpose v2)
- D. Premium Storage (general purpose v1)

**Correct Answer:** A

**Explanation:**

Standard StorageV2 supports the Archive access tier, which would be the cheapest solution.

Reference:

<https://docs.microsoft.com/en-us/azure/storage/common/storage-introduction>

### **QUESTION 51**

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 have an Azure Storage account that contains two 1-GB data files named File1 and File2. The data files are set to use the archive access tier.

You need to ensure that File1 is accessible immediately when a retrieval request is initiated.

Solution: For File1, you set Access tier to Cool .

Does this meet the goal?

- A. Yes
- B. No

**Correct Answer:** A

**Explanation:**

The data in the cool tier is "considered / intended to be stored for 30 days". But this is not a must. You can store data indefinitely in the cool tier. The mentioned reference (see below) even gives an example of large scientific or otherwise large data which is stored for long duration in the cool tier.

Reference:

<https://docs.microsoft.com/en-us/azure/storage/blobs/storage-blob-storage-tiers?tabs=azure-portal>

### **QUESTION 52**

Your network contains an on-premises Active Directory forest.

You discover that when users change jobs within your company, the membership of the user groups are not being updated. As a result, the users can access resources that are no longer relevant to their job.

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You plan to integrate Active Directory and Azure Active Directory (Azure AD) by using Azure AD Connect.

You need to recommend a solution to ensure that group owners are emailed monthly about the group memberships they manage.

What should you include in the recommendation?

- A. conditional access policies
- B. Tenant Restrictions
- C. Azure AD access reviews
- D. Azure AD Identity Protection

**Correct Answer: C**

**Explanation:**

<https://docs.microsoft.com/en-us/azure/active-directory/governance/access-reviews-overview>

### **QUESTION 53**

#### **HOTSPOT**

You plan to deploy a network-intensive application to several Azure virtual machines.

You need to recommend a solution that meets the following requirements:

- Minimizes the use of the virtual machine processors to transfer data
- Minimizes network latency

Which virtual machine size and feature should you use? To answer, select the appropriate options in the answer area.

NOTE: Each correct selection is worth one point.

|                       |   |
|-----------------------|---|
| Virtual machine size: | <div><div></div><div>▼</div><div>Compute optimized Standard_F8s</div><div>General purpose Standard_B8ms</div><div>High performance compute Standard_H16r</div><div>Memory optimized Standard_E16s_v3</div></div>    |
| Feature:              | <div><div></div><div>▼</div><div>Receive side scaling (RSS)</div><div>Remote Direct Memory Access (RDMA)</div><div>Single root I/O virtualization (SR-IOV)</div><div>Virtual Machine Multi-Queue (VMMQ)</div></div> |

**Correct Answer:**