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References:

<https://azure.microsoft.com/en-us/blog/monitoring-on-hdinsight-part-1-an-overview/>

<https://ambari.apache.org/>

QUESTION 40

A company plans to use Azure SQL Database to support a mission-critical application.

The application must be highly available without performance degradation during maintenance windows.

You need to implement the solution.

Which three technologies should you implement? Each correct answer presents part of the solution.

NOTE: Each correct selection is worth one point.

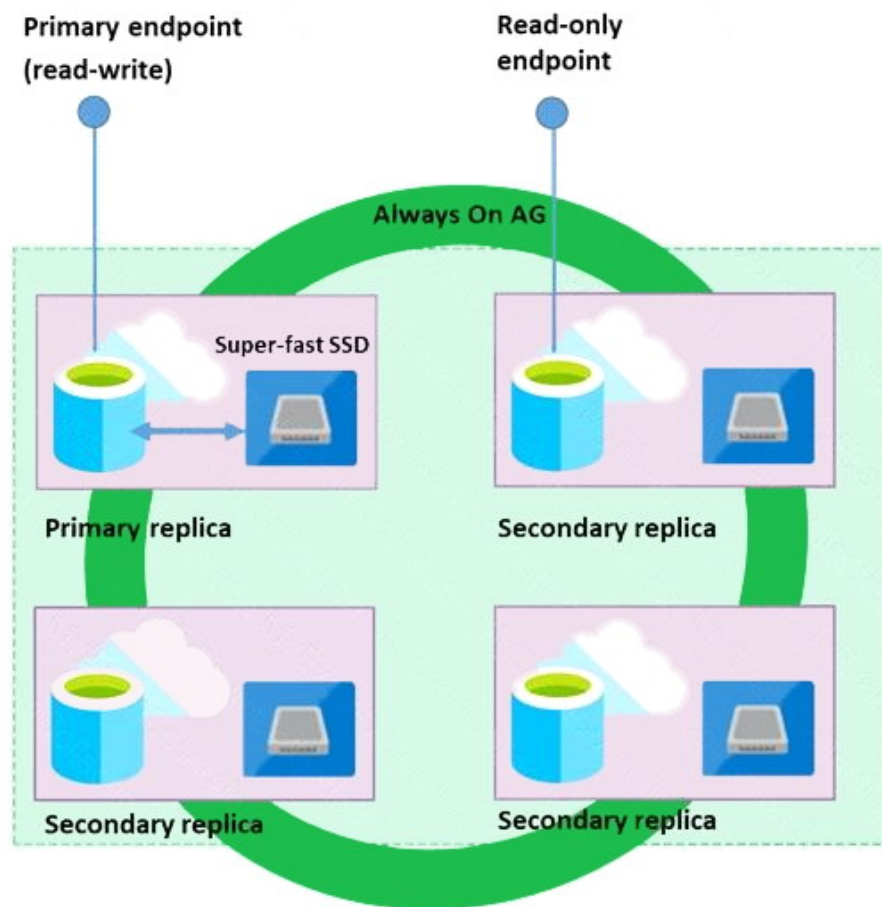
- A. Premium service tier
- B. Virtual machine Scale Sets
- C. Basic service tier
- D. SQL Data Sync
- E. Always On availability groups
- F. Zone-redundant configuration

Correct Answer: AEF

Explanation:

Premium/business critical service tier model that is based on a cluster of database engine processes. This architectural model relies on a fact that there is always a quorum of available database engine nodes and has minimal performance impact on your workload even during maintenance activities.

In the premium model, Azure SQL database integrates compute and storage on the single node. High availability in this architectural model is achieved by replication of compute (SQL Server Database Engine process) and storage (locally attached SSD) deployed in 4-node cluster, using technology similar to SQL Server Always On Availability Groups.



Business Critical service tier: collocated compute and storage

Zone redundant configuration

By default, the quorum-set replicas for the local storage configurations are created in the same datacenter.

With the introduction of Azure Availability Zones, you have the ability to place the different replicas in the quorum-sets to different availability zones in the same region. To eliminate a single point of failure, the control ring is also duplicated across multiple zones as three gateway rings (GW).

References:

<https://docs.microsoft.com/en-us/azure/sql-database/sql-database-high-availability>

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QUESTION 41

Your company uses several Azure HDInsight clusters.

The data engineering team reports several errors with some application using these clusters.

You need to recommend a solution to review the health of the clusters.

What should you include in your recommendation?

- A. Azure Automation
- B. Log Analytics
- C. Application Insights
- D. None of the above

Correct Answer: B

QUESTION 42

A company has a Microsoft Azure HDInsight solution that uses different cluster types to process and analyze data. Operations are continuous.

Reports indicate slowdowns during a specific time window.

You need to determine a monitoring solution to track down the issue in the least amount of time.

What should you use?

- A. Azure Log Analytics log search query
- B. Ambari REST API
- C. Azure Monitor Metrics
- D. HDInsight .NET SDK
- E. Azure Log Analytics alert rule query

Correct Answer: B

Explanation:

Ambari is the recommended tool for monitoring the health for any given HDInsight cluster.

Note:

Azure HDInsight is a high-availability service that has redundant gateway nodes, head nodes, and ZooKeeper nodes to keep your HDInsight clusters running smoothly. While this ensures that a single failure will not affect the functionality of a cluster, you may still want to monitor cluster health so you are alerted when an issue does arise. Monitoring cluster health refers to monitoring whether all nodes in your cluster and the components that run on them are available and functioning correctly.

Ambari is the recommended tool for monitoring utilization across the whole cluster. The Ambari dashboard shows easily glanceable widgets that display metrics such as CPU, network, YARN memory, and HDFS disk usage. The specific metrics shown depend on cluster type. The "Hosts" tab shows metrics for individual nodes so you can ensure the load on your cluster is evenly distributed.

References:

<https://azure.microsoft.com/en-us/blog/monitoring-on-hdinsight-part-1-an-overview/>

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QUESTION 43

HOTSPOT

A company runs Microsoft Dynamics CRM with Microsoft SQL Server on-premises. SQL Server Integration Services (SSIS) packages extract data from Dynamics CRM APIs, and load the data into a SQL Server data warehouse.

The datacenter is running out of capacity. Because of the network configuration, you must extract on premises data to the cloud over https. You cannot open any additional ports. The solution must implement the least amount of effort.

You need to create the pipeline system.

Which component should you use? To answer, select the appropriate technology in the dialog box in the answer area.

NOTE: Each correct selection is worth one point.

Action	Technology
Extract SQL data on-premises	Self-hosted integration runtime
	Azure-SSIS integration runtime
	Azure integration runtime
	Source
Load SQL data warehouse	Self-hosted integration runtime
	Azure-SSIS integration runtime
	Azure integration runtime
	Sink

Correct Answer:

Action	Technology
Extract SQL data on-premises	Self-hosted integration runtime
	Azure-SSIS integration runtime
	Azure integration runtime
	Source
Load SQL data warehouse	Self-hosted integration runtime
	Azure-SSIS integration runtime
	Azure integration runtime
	Sink

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QUESTION 44

DRAG DROP

You manage security for a database that supports a line of business application.

Private and personal data stored in the database must be protected and encrypted.

You need to configure the database to use Transparent Data Encryption (TDE).

Which five actions should you perform in sequence? To answer, select the appropriate actions from the list of actions to the answer area and arrange them in the correct order.

Actions	Answer Area
Create a database encryption key using a certificate generated with the master key.	
Create a certificate and then create the master key using a password.	
Set the context to the master database.	
Create a master key using a password.	
Set the context to the company database.	
Enable encryption.	

Correct Answer: