

AZ-305^{Q&As}

Designing Microsoft Azure Infrastructure Solutions

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QUESTION 1

HOTSPOT

You are designing an access policy for 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:

Answer Area

Azure Active Directory (Azure AD) license:

	▼
Free	
Premium P1	
Premium P2	

Security feature:

	▼
Just in time VM access	
A conditional access policy	
Azure AD Privileged Identity Management	

Correct Answer:

Answer Area

Azure Active Directory (Azure AD) license:

	▼
Free	
Premium P1	
Premium P2	

Security feature:

	▼
Just in time VM access	
A conditional access policy	
Azure AD Privileged Identity Management	

QUESTION 2

HOTSPOT

You are designing a data storage solution to support reporting.

The solution will ingest high volumes of data in the JSON format by using Azure Event Hubs. As the data arrives, Event Hubs will write the data to storage. The solution must meet the following requirements:

1.
Organize data in directories by date and time.
2.
Allow stored data to be queried directly, transformed into summarized tables, and then stored in a data warehouse.
- 3.

Ensure that the data warehouse can store 50 TB of relational data and support between 200 and 300 concurrent read operations. Which service should you recommend for each type of data store? To answer, select the appropriate options in the answer area. NOTE: Each correct selection is worth one point.

Hot Area:

Data store for the ingested data:

▼
Azure Blob Storage
Azure Data Lake Storage Gen2
Azure Files
Azure NetApp Files

Data store for the data warehouse:

▼
Azure Cosmos DB for Apache Cassandra
Azure Cosmos DB for NoSQL
Azure SQL Database Hyperscale
Azure Synapse Analytics dedicated SQL pools

Correct Answer:

Data store for the ingested data:

▼
Azure Blob Storage
Azure Data Lake Storage Gen2
Azure Files
Azure NetApp Files

Data store for the data warehouse:

▼
Azure Cosmos DB for Apache Cassandra
Azure Cosmos DB for NoSQL
Azure SQL Database Hyperscale
Azure Synapse Analytics dedicated SQL pools

QUESTION 3

You are developing a sales application that will contain several Azure cloud services and will handle different components of a transaction. Different cloud services will process customer orders, billing, payment, inventory, and shipping.

You need to recommend a solution to enable the cloud services to asynchronously communicate transaction information by using REST messages.

What should you include in the recommendation?

- A. Azure Service Bus
- B. Azure Blob storage
- C. Azure Notification Hubs

D. Azure Application Gateway

Correct Answer: A

Service Bus is a transactional message broker and ensures transactional integrity for all internal operations against its message stores. All transfers of messages inside of Service Bus, such as moving messages to a dead-letter queue or automatic forwarding of messages between entities, are transactional.

Reference: <https://docs.microsoft.com/en-us/azure/service-bus-messaging/service-bus-transactions>
<https://docs.microsoft.com/en-us/azure/service-bus-messaging/service-bus-messaging-overview>

"Service Bus offers a reliable and secure platform for asynchronous transfer of data and state." ... "Service Bus supports standard AMQP 1.0 and HTTP/REST protocols."

QUESTION 4

You plan to deploy an application named App1 that will run on five Azure virtual machines. Additional virtual machines will be deployed later to run App1. You need to recommend a solution to meet the following requirements for the virtual machines that will run App1:

1.

Ensure that the virtual machines can authenticate to Azure Active Directory (Azure AD) to gain access to an Azure key vault, Azure Logic Apps instances, and an Azure SQL database.

2.

Avoid assigning new roles and permissions for Azure services when you deploy additional virtual machines.

3.

Avoid storing secrets and certificates on the virtual machines. Which type of identity should you include in the recommendation?

- A. a service principal that is configured to use a certificate
- B. a system-assigned managed identity
- C. a service principal that is configured to use a client secret
- D. a user-assigned managed identity

Correct Answer: D

Managed identities for Azure resources is a feature of Azure Active Directory. User-assigned managed identity can be shared. The same user-assigned managed identity can be associated with more than one Azure resource.

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

QUESTION 5

HOTSPOT

You have an app that generates 50,000 events daily.

You plan to Stream the events to an Azure event hub and use Event Hubs Capture to implement cold path processing Of the events Output Of Event Hubs Capture will be consumed by a reporting system.

You need to identify which type of Azure storage must be provisioned to support Event Hubs Capture, and which inbound data format the reporting system must support.

What should you identify? To answer. select the appropriate options in the answer area.

NOTE: Each correct selection is worth one point.

Hot Area:

Storage type:
Azure Data Lake Storage Gen2
Premium block blobs
Premium file shares

Data format:
Apache Parquet
Avro
JSON

Correct Answer:

Storage type:
Azure Data Lake Storage Gen2
Premium block blobs
Premium file shares

Data format:
Apache Parquet
Avro
JSON

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