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Section	Objectives
Connect to and consume Azure services	- Integrate Azure services • 1. Azure messaging and eventing • 2. Third-party SDKs • 3. Event-driven architectures • 4. Serverless integration patterns • 5. Azure SDKs
Develop containerized solutions on Azure	- Implement containerized applications • 1. Manage containerized compute environments • 2. Deploy AI workloads in containers • 3. Implement scalable hosting patterns
Secure, monitor, troubleshoot Azure solutions	- Operate AI cloud solutions • 1. Performance optimization • 2. Monitoring and observability • 3. Troubleshooting Azure solutions • 4. Security and secret management
Develop AI solutions by using Azure data management services	- Work with Azure data platforms for AI workloads • 1. Data integration for AI applications • 2. Azure data management services • 3. Vector databases

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Microsoft Developing AI Cloud Solutions on Azure Sample Questions (Q78-Q83):

NEW QUESTION # 78
A container in an AKS cluster repeatedly restarts.
Pod events show probe failures, although node-level CPU and memory metrics are normal.
You need to diagnose the cause of the repeating restarts.
What should you do first?

- A. Scale the deployment to more replicas.
- B. Decrease the initialDelaySeconds for the container liveness probe.
- C. Drain and reboot the node hosting the pod.
- D. Inspect the pod events and container logs.

Answer: D

Explanation:
Inspecting the pod events and container logs is the correct first action to take.
Because node-level metrics are normal, the issue is isolated to the specific workload or its individual container boundaries. Pod events will clarify exactly which health probe (liveness or readiness) is triggering the restart, and the logs will reveal why the application inside the container is failing to respond.
Reference:
https://aws.plainenglish.io/why-your-kubernetes-pod-is-crashing-and-how-to-fix-it-5c71f8d2779a?gi=a46b335270ff

NEW QUESTION # 79
Hotspot Question
You are reviewing the message-processing code in a backend worker service.
You review the following Python code that initializes and starts a Service Bus processor.

```
from azure.servicebus import ServiceBusClient, ServiceBusReceiveMode
```

```
01 import json
02 from azure.servicebus import ServiceBusClient, ServiceBusReceiveMode
03 from azure.identity import DefaultAzureCredential
04 credential = DefaultAzureCredential()
05 with client.get_queue_receiver(
06     queue_name="inference-requests",
07     receive_mode=ServiceBusReceiveMode.PEEK_LOCK,
08     max_wait_time=30
09 ) as receiver:
10     for msg in receiver:
11         try:
12             payload = json.loads(str(msg))
13             result = run_inference(payload)
14             save_result(result, payload.get("document_id"))
15             receiver.complete_message(msg)
16         except json.JSONDecodeError:
17             receiver.dead_letter_message(
18                 msg,
19                 reason="MalformedPayload",
20                 error_description="Message body is not valid JSON"
21             )
22         except ModelNotFoundError:
23             receiver.dead_letter_message(
24                 msg,
25                 reason="UnsupportedModel",
26                 error_description=f"Model {payload.get('model')} is not available"
27             )
28         except TransientServiceError:
29             receiver.abandon_message(msg)
```

For each of the following statements, select Yes if the statement is true. Otherwise, select No.
NOTE: Each correct selection is worth one point.

Answer Area

Service Bus processor behavior and SDK defaults

Statement	Yes	No
Messages are removed from the queue as soon as they are received by the processor.	○	○
If message processing fails due to a transient service error, the message can be retried by another consumer.	○	○
Messages with invalid JSON payloads are retried until the maximum delivery count is reached.	○	○

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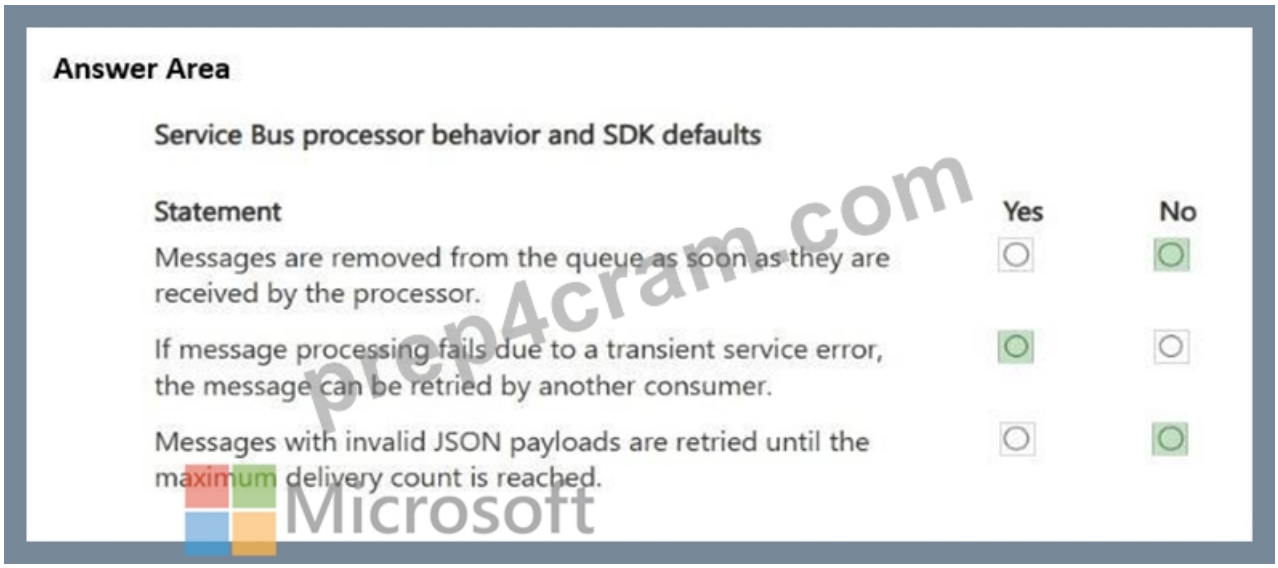
Answer:

Explanation:



Explanation:
Box 1: No
No, messages are not removed from the queue as soon as they are received when using PEEK_LOCK mode.
How PEEK_LOCK Works
The Lock: The Service Bus processor locks the message exclusively for your worker for a specific duration.
The Invisible State: Other workers cannot see or process the message while the lock is active.
The Removal: The message is only permanently removed from the queue after it is successfully processed and explicitly completed.
Box 2: Yes
Yes, the message can be retried by another consumer if it fails due to a TransientServiceError.
Explicit abandonment: The code calls receiver.abandon_message(msg) when catching a TransientServiceError.
Lock release: Abandoning a message immediately releases the PEEK_LOCK held by the current worker.
Immediate availability: The message returns to the active queue and becomes instantly visible to other competing consumers.
Box 3: No
No, messages with invalid JSON payloads will not be retried until the maximum delivery count is reached. They will be sent to the dead-letter queue (DLQ) immediately on the very first attempt.
Immediate Dead-Lettering: The code catches the json.JSONDecodeError and explicitly calls receiver.dead_letter_message(msg).
Instant Termination: This API call tells Azure Service Bus to move the message to the DLQ right away, bypassing the normal delivery count logic.
No Re-delivery: Because the message is moved to the DLQ, the broker removes it from the main queue, stopping any further processing attempts.
Reference:
https://learn.microsoft.com/en-us/python/api/azure-servicebus/azure.servicebus.aio.servicebusreceiver
https://learn.microsoft.com/en-us/azure/service-bus-messaging/service-bus-python-how-to-use-queues

NEW QUESTION # 80
You are designing an Azure Database for PostgreSQL table for semantic search. Queries frequently filter on the created_at column. The schema must support vector similarity search and reliable date filtering You need to ensure that the table meets the requirements. Which two actions should you perform? Each correct answer presents part of the solution. Choose two NOTE: Each correct selection is worth one point.

- A. Use a typed timestamp column for created_at.
- B. Store embeddings in a pgvector column.
- C. Store embeddings in a varchar column.
- D. Store created_at as a free-form string.

Answer: A,B

Explanation:
Detailed Explanation: A semantic-search schema should use the pgvector vector type for embeddings so PostgreSQL can apply vector distance operators and vector indexes. The creation timestamp should use an actual timestamp data type so comparisons, range predicates, ordering, and indexes use date semantics rather than string ordering. Storing vectors or dates as free-form character data would sacrifice type validation and make similarity or date filtering less efficient and less reliable.

Study Guide Alignment: AI data-management workloads: Cosmos DB, PostgreSQL, caching, vector storage, vector retrieval, consistency, and connection optimization.
Official Microsoft Learn References: AI-200 Study Guide | Vector similarity search with Azure PostgreSQL

NEW QUESTION # 81
You develop a message-processing service deployed to Azure Container Apps. The service reads messages from an Azure Service Bus queue.
The solution must minimize costs by ensuring NO compute resources are consumed when the queue is empty.
You need to configure scaling for the service.
Which two actions should you perform? Each correct answer presents part of the solution.
NOTE: Each correct selection is worth one point.

- A. Configure a Kubernetes Event-driven Autoscaler rule that monitors queue length.
- B. Enable HTTP ingress concurrency scaling.
- C. Increase the scaling rule to allow for the maximum running replica count.
- D. Configure the scaling rule to allow for the termination of all active replicas.

Answer: A,D

Explanation:
[C]
You can configure an Azure Service Bus scale rule in Azure Container Apps, which utilizes built- in KEDA (Kubernetes Event-driven Autoscaling) to monitor queue length and scale the app from zero instances to meet your processing demands.
[B]
Configure the scaling rule to allow for the termination of all active replicas is the correct action to take.
To ensure that no compute resources are consumed when the queue is empty, you must set the minimum replica count (minReplicas) to 0 in your Azure Container Apps scaling configuration.
When the Azure Service Bus queue has zero messages, KEDA will scale the container replicas down to zero, stopping all compute billing.
Reference:
https://learn.microsoft.com/en-us/azure/container-apps/scale-app

NEW QUESTION # 82
An application performs similarity search across 5 million embeddings stored in Azure Database for PostgreSQL with pgvector.
Queries often filter by department before ranking by cosine distance.
P95 latency for vector similarity queries exceeds the SLA target. Monitoring shows sustained high CPU use during query execution.
You need to reduce P95 latency for filtered vector similarity queries.
What should you do?

- A. Increase embedding dimensionality.
- B. Increase statement timeout.
- C. Create B-tree indexes on frequently filtered metadata columns.
- D. Store embeddings as JSON.

Answer: C

Explanation:
Creating a B-tree index on the department column will help, but only if you use the correct indexing strategy, as a standard B-tree index alone is often ignored during vector searches.
When you run a query that filters by metadata before performing a vector similarity search, PostgreSQL must choose between filtering the rows first or searching the vector index first. In many cases, a standard B-tree index on the metadata column combined with an HNSW/IVFFlat index on the vector column results in pre-filtering that defaults to a sequential scan, or post- filtering that returns fewer results than requested.
Reference:
https://learn.microsoft.com/en-us/azure/horizondb/ai/vector-search-pgvector

NEW QUESTION # 83

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