Q1: When would you use Azure Storage Queues vs Azure Service Bus? Related To: Azure

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Answer

Choose Storage Queues if:

You need a simple (REST-based GET/PUT/PEEK interface) queue with no particular additional requirements (point-to-point communication).

You need an audit trail of all messages that pass through the queue.

You expect the queue to exceed 80 GB in size.

You want to track progress for processing a message inside of the queue.

Choose Service Bus Queues if:

You need duplicate detection.

You need an at-most-once delivery guarantee.

You need a FIFO/ordering guarantee (using sessions).

You need to group messages into transactions.

You want to receive messages without polling the queue.

You need to provide role-based access to the queues.

You need to handle messages larger than 64 KB but smaller than 256 KB.

Your queue size will not grow larger than 80 GB.

You need to have dead-lettering.

You would like to be able to publish and consume batches of messages.

You want to use a publish-subscribe messaging pattern (using topics and subscribtions).

Source: medium.com

Q2: Explain why would you use Scheduled messages in Azure Service Bus?

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Answer

Message scheduling is helpful when you want to postpone non-critical yet essential workloads to a later point in time. Then consumers can pick them up after peak hours. Scheduled messages can be canceled before the enqueue time. To cancel a message, you need its sequence number.

For example, you can delay email-sending tasks until midnight to save the computational capacity of consumers.

Another case is a consumer writing to an eventually consistent database. Adding a delay will help the message processor catch up with database writes made by upstream components.

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Source: medium.com

Q3: Can Azure Service Bus message be empty?

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Answer

Yes.

Messages carry a payload and metadata. The metadata is in the form of key-value pair properties and describes the payload, and gives handling instructions to Service Bus and applications. Occasionally, that metadata alone is sufficient to carry the information that the sender wants to communicate to receivers, and the payload remains empty.

Source: learn.microsoft.com

Q4: What is the difference between Receive and Peek in the context of Azure Service Bus Topics?

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Answer

Peek: This method enables you to view messages without locking or receiving them.

Receive: Can work in 2 modes:

PeekLock (receives the message but keeps it peek-locked until the receiver abandons the message. The maximum timeout is 5 minutes before message expiration) and

ReceiveAndDelete (deletes the message after it is received).

So this means you'll use the Peek when your goal is to look at the messages without actually consuming them (maybe you're building a "Queue browser", ... or your process needs to decided if it wants/can consume the message). And you'll use Receive when you're really planning to consume the message and do whatever you need to do with it.

Q5: What is the purpose of the dead-letter queue (DLQ) in Azure Service Bus?

Q6: Explain the difference between Event vs Message Services in the context of Azure Services? Related To: Azure

Q7: When would you use Azure Service Bus over Azure Event Grid and vice versa?

Q8: When would you use Azure Event Grid vs Azure Service Bus and vice versa? Related To: Azure

Q9: Compare different message receiving modes in queuing technology

Q10: Explain the difference between At-most-once vs At-least-once message processing in Azure Service Bus Related To: Azure

Q11: Explain the use case for At-most once delivery mode/message processing

Q12: Is it possible to send a message directly to a Subscription queue in Azure Service Bus?

Q13: Does Poison Queue exists in Azure Service Bus?

Q14: What is the difference between Azure Queue Storage and Azure Service Bus with regards to dead letter queues & poison messages? Related To: Azure

Q15: What are Transactions in Azure Service Bus?

Q16: Do messages in dead-letter queues in Azure Service Bus expire?

Q17: Explain the difference between Azure Service bus vs. Event Hub vs Event Grid

Q18: Explain the difference between Scheduled vs Deferred messages in Azure Service Bus Related To: Azure

Q19: Provide a use case for At-least once message receiving mode in Azure Service Bus

Q20: What is the best way to ensure exact-once delivery using Azure Services Bus?

Q21: Is Competing Consumers Patter possible with Azure Service Bus queues?

Q22: Explain the use of Express Entities in Azure Service Bus Related To: Azure

Q23: What are main considerations when creating Azure Service Bus queues/topics? Related To: Azure

Q24: Explain how to abandon ASB message so it becomes visible again in a way you can control?

Expert

Q25: Compare Message Sequencing (SequenceNumber) vs Sessions in Azure Service Bus. When would you use one vs another?