Cover Page

ST10261925

CLDV6216

1 October 2024

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Section B

Azure Event Hubs

- Description
    - when it comes to the description of Azure Event Hub it is an ingestion service which will let a user collect a big amount of real time event data/information for real time analysis and for real time processing (Prabhakaran, 2019).
- Mechanism
    - When it comes to the mechanism of Event Hubs a model is used, this model is called the partitioned consumer model which is there to handle big amounts/a number of events/activities and it will make sure that the events/activities are delivered/conveyed in a sequence within a partition (Prabhakaran, 2019).
- The value for the end users
    - When it comes to the value of the event hubs for the users, it can better the customers experience by enabling real time responsiveness, an example of this is that it can be used to react or it can be used to monitor real time events such as the transaction made by a customer (Prabhakaran, 2019).

Azure Event Bus

- <u>Description</u>
    - When it comes to the description of Azure Event Bus which is also know as service bus, it is a fully managed organisation messaging system with message queues and publish-subscribe topics. It is designed in a way to enable genuine/good communication between different services and applications (Venkatasubramanian, 2024).
- <u>Mechanism</u>
    - When it comes to the mechanism of Azure Event Bus, this service will allow for non blocking messaging, load distribution and there is reliable/genuine delivery cross the all the distributed systems (Venkatasubramanian, 2024).

- <u>Value to End Users</u>

    - When it comes to the value to end users of Event Bus it betters the experience for the customer by making sure that the functions/operations between the various different parts of the system are being handled in a efficient and reliable way, and even during the times where there is high volume of load , as an example when an order is placed by a customer it will make sure that all the system which are related to the order are updated in a reliable way without there being an effect on performance (Venkatasubramanian, 2024).

Link

https://github.com/ST10261925/ST10261925_CLDV_Part2

Screenshots

+ Add message   🗑 Dequeue message   ✕ Clear queue   ⟳ Refresh   ▦ Edit columns

▦ Queues > ▦ order-processing

Authentication method: Access key (Switch to Microsoft Entra user account)

🔍

Showing all 1 items

Message text	Id	Insertion time	Expiration time
Processing order 67	2b72b2a6-1587-43f3-bf...	10/1/2024, 9:37:29 PM	10/8/2024, 9:37:29 PM

+ Add entity   ⟳ Refresh | 🗑 Delete   ▦ Edit columns

▦ Tables > ▦ CustomerProfiles

Authentication method: Access key (Switch to Microsoft Entra user account)

▽ Add filter   ⬤ Advanced filters

Showing all 1 items

	PartitionKey	RowKey	Timestamp	FirstName
☐	CustomerProfile	103b5b9e-b41d-45b6-a...	2024-10-01T19:36:38.91...	Michael

+ Add Directory   ↑ Upload   🔒 Change access level   ⟳ Refresh | 🗑 Delete   ⧉ Copy   ⋯

🖼 Blob containers > 🖼 product-images

Authentication method: Access key (Switch to Microsoft Entra user account)

▽ Add filter

🔍 Search blobs by prefix (case-sensitive)   Only show active blobs ⌄

Showing all 6 items

	Name	Last modified	Access tier	Blob type	S
☐	Monitor.jpeg	8/30/2024, 11:45:06 AM	Hot (Inferred)	Block blob	
☐	Smartwatch...	8/30/2024, 11:44:36 AM	Hot (Inferred)	Block blob	5
☐	Tablet.jpeg	8/30/2024, 11:44:16 AM	Hot (Inferred)	Block blob	5
☐	airpods.jpeg	8/30/2024, 11:45:26 AM	Hot (Inferred)	Block blob	4
☐	cap-remov...	10/1/2024, 9:34:30 PM	Hot (Inferred)	Block blob	7
☐	iPHONE.jpg	8/30/2024, 11:45:49 AM	Hot (Inferred)	Block blob	5

↑ Upload   + Add directory   ⟳ Refresh | 🗑 Delete   ⧉ Copy   📋 Paste   ▭ Rename   ⋯

📁 File shares > 📁 contracts-logs

Authentication method: Access key (Switch to Microsoft Entra user account)

🔍 Search files by prefix

Showing all 1 items

	Name	Type	Size	
☐	Contract.txt	File	0	⋯

References

Prabhakaran, N. (2019, July 10). *Microsoft Azure Event Hubs*. Retrieved from
    turbo360: https://turbo360.com/guide/azure-event-hub

Venkatasubramanian, S. (2024, July 25). *Azure Event Hubs vs Service Bus*.
    Retrieved from turbo360:
    https://turbo360.com/blog/azure-event-hubs-vs-service-bus