[CosmosDB] - Write throughput budget not work

Last updated by | Zhangyi Yu | Apr 13, 2022 at 1:28 AM PDT

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Issue

When customer uses dataflow to move/transfer data from different stores into CosmosDB, he/she may find the setting of "writeThroughputBudget" does not work, the RU consumption is still 100%, not partial of the total RU.

Root Cause

Write throughput budget: An integer string that represents the total RUs that you want to allocate in this cosmos write operation, out of the total throughput allocated to the collection, the large value can get better performance.

On Cosmos DB account page, it has "Autoscale" and "Manual" option to set database or collection (container) level RU during creation (https://docs.microsoft.com/en-us/azure/cosmos-db/set-throughput#comparison-of-models).

If customer select "Autoscale", he/she does not need to set "Write throughput budget" while it will not work because cosmos DB itself will automatically/dynamically calculate input-data-size, index, operation (for example, insert, delete, update...) to determine and use reasonable RU.

Resolution

If customer's purpose is to control RU usage, please chosen "Manual" during database/collection creation, it means the total RU on customer's collection/container is fixed (will not dynamically allocated or changed), customer can use "Write throughput budget" to determine how much RU to serve the write operation. For how many RU is needed, it is determined by different factors, for details, customer can reference cosmos public to set the reasonable value. https://docs.microsoft.com/en-us/azure/cosmos-db/optimize-cost-reads-writes#writing-data

Additional Information

- Icm Reference: N/A
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- Keywords:

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