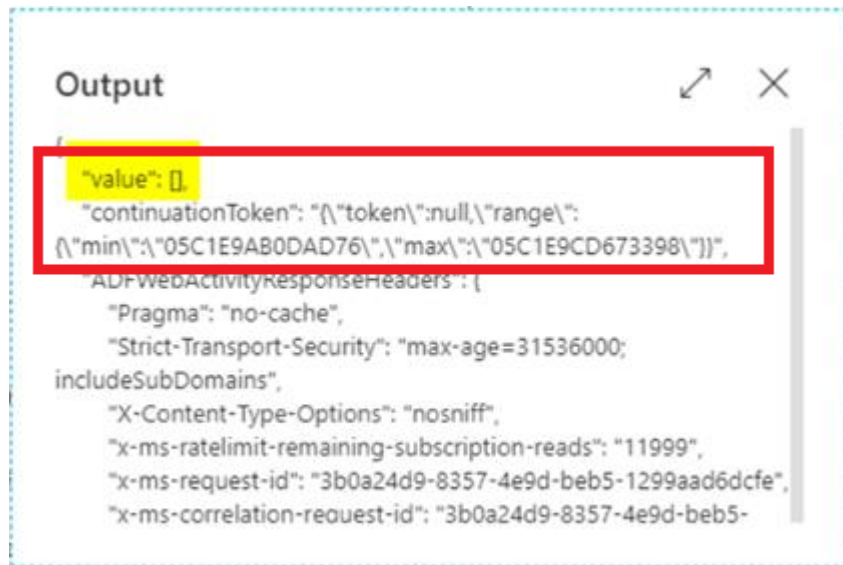


[REST] How to work with the API queryActivityruns and continuationToken

Last updated by | Jackie Huang | Jan 4, 2022 at 12:24 AM PST

Symptom

The customer was working with *queryActivityRuns* successfully for some time, but after a specific date they started to receive as response an empty array and a continuationToken in the following format `{\"token\":null,\"range\":{\"min\":\"05C1E9AB0DAD76\",\"max\":\"05C1E9CD673398\"}}`. The full response output looked like:



Cause

Depending on partitioning of data in the backend DB, querying can yield page with 0 results and non-null continuation token to query next page, even though the result set for the query may be small.

To share more context about the partitioning for activity runs in ADF, we support overflow partitions in the backend database for activity runs to scale storage for all 45 days worth of activity runs in a single customer factory. So, when total storage size of 45 days of activity runs exceeds 10GB, we create another partition to store newer activity runs. At any point in time, ADF supports querying across two partitions (original and overflow included).


When querying across multiple partitions, our backend DB returns continuation token in JObject format with 3 properties: token, min and max key ranges which is the format for customer's continuation token (for instance, `{\"token\":null,\"range\":{\"min\":\"05C1E9AB0DAD76\",\"max\":\"05C1E9CD673398\"}}`).

Resolution

When the continuationToken is non-null, as the string `{\"token\":null,\"range\":{\"min\":\"05C1E9AB0DAD76\",\"max\":\"05C1E9CD673398\"}}`, it's expected the customer to call *queryActivityRuns* API again with the continuation token from the previous response.

They need to pass the full highlighted string above for the query API again.

The activities will be returned in the subsequent pages for the query result. Customer should ignore that there is empty array in this page, as long as the full continuationToken value != null, they need continue querying.

This is well documented in our official [documentation](#) :

ActivityRunsQueryResponse

A list activity runs.

Name	Type	Description
continuationToken	string	The continuation token for getting the next page of results, <u>if any remaining results exist, null otherwise.</u>
value	ActivityRun[]	List of activity runs.

An example of API call using the continuation token is **(with the backslashes)**:

Body

```
{
  "lastUpdatedAfter": "1900-01-01T00:00:00.0000000Z",
  "lastUpdatedBefore": "2100-12-31T00:00:00.0000000Z",
  "continuationToken": "{\\"token\\":null,\\"range\\":{\\"min\\":\\"05C1E9AB0DAD76\\",\\"max\\":\\"05C1E9CD673398\\"}}"
```

Additional Information:

- Icm References: 241440358
- Keywords: ContinuationToken, pagination, Continuation Token, REST API, queryActivityruns
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