The remote server returned an error : (409)

Last updated by | Ranjith Katukojwala | Mar 7, 2023 at 11:35 AM PST

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Issue

When customer try to run delete activity with deleting files (*.csv, *.avro, *.parquet, *.json...) from azure blob storage and meet following error:

Failed to execute delete activity with data source 'AzureBlobStorage' and error 'The remote server returned an error: (409) Conflict'

Root Cause

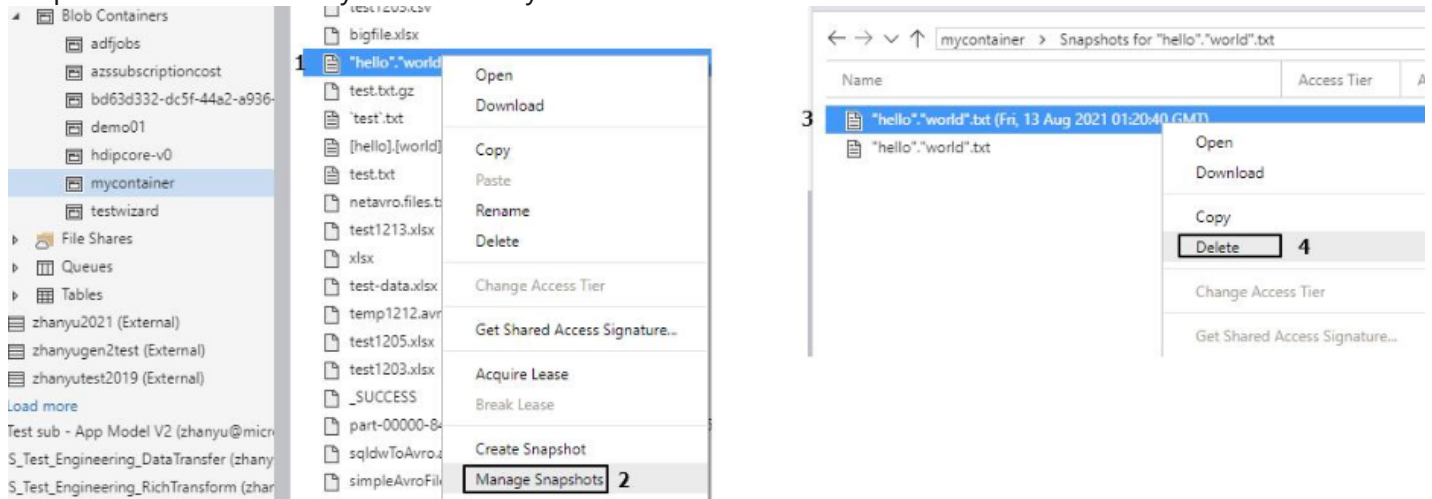When customer meets up error, for most time, it is because of

- the permission issue on that files will be deleted. (or)
- may use Blob API to delete the folder.

Mitigation

Please ask the customer to do the following operation and validation:

1. Please double-check whether it has multiple activities which are operating the same file (for example "m_mrchnt.csv"), if yes, the deletion on this file will meet 409. For details, please reference delete activity public document: https://docs.microsoft.com/en-us/azure/data-factory/delete-activity ⧉

2. Please double-check whether the file (which is failed to be deleted with 409 issue) is open by some tools or software while customer try to delete it through delete activity, if yes, it will meet 409 issue.

3. Please double-check whether the file (which is failed to be deleted with 409 issue) has snapshot, if yes, the deletion on it will meet 409 issue throwed by blob service, for details, please reference this doc: https://docs.microsoft.com/en-us/rest/api/storageservices/delete-blob ⧉ The customer needs to delete all

snapshots of the file firstly and manually.

4. Please ask customer to put one temp-created file under the same folder, then use delete activity to delete it with specify folderPath + files and see whether it can work.

5. If the error is not due to permission issue, check whether the customer is using deleteBlob API with the blob endpoint instead of the DFS endpoint for ADLS Gen2. If yes, this is a known limitation as mentioned here ⧉. If a customer using the Delete Blob API to delete a directory, that directory will be deleted only if it's empty. This means that the customer can't use the Blob API delete directories recursively.

   o In this case, change the ADF config to use ADLS Gen2 instead of using blob. If the issue persists, consider cleaning up data written using the blob APIs, and rerun using ADLS Gen2.

Additional Information:

- **Icm References:**
- **Author:** zhanyu
- **Reviewer:** charles; chargu; vimals
- **Micro-service:** Transfer Web, Self-hosted IR, Azure IR, Task Management Service
- **Keywords:** Delete

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