Intermittent Errors and Timeouts with ADF Oracle Connector to Oracle Sink

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

Contents

Issue Description

Intermittent Errors and Timeouts with below messages while using Copy Activity using Oracle Connector to Load records from Source : Azure SQL or Oracle via ADF Oracle Connector to Oracle Sink, (On-prem or in Oracle Cloud).

Error Signature

Error Messages: Error: Failure happened on 'Sink' side. ErrorCode=UserErrorOdbcOperationFailed,'Type=Microsoft.DataTransfer.Common.Shared.HybridDeliveryException,Message=ERROR [HY000] [Microsoft][ODBC Oracle Wire Protocol driver][Oracle]ORA-39776: fatal Direct Path API error loading table 'FM'.'STG_EXCEPTION' ORA-03137: malformed TTC packet from client rejected: [klaprs_11] [273] [512] [193] [60] [11643] [] [],Source=Microsoft.DataTransfer.ClientLibrary.Odbc.OdbcConnector,''Type=Microsoft.DataTransfer.ClientLibrary.Odbc.Exceptions.OdbcException,Message=ERROR [HY000] [Microsoft][ODBC Oracle Wire Protocol driver][Oracle]ORA-39776: fatal Direct Path API error loading table 'FM'.'STG_EXCEPTION' ORA-03137: malformed TTC packet from client rejected: [klaprs_11] [273] [512] [193] [60] [11643] [] [],Source=msora28.dll,'

Failure happened on 'Sink' side. ErrorCode=UserErrorOdbcOperationFailed,'Type=Microsoft.DataTransfer.Common.Shared.HybridDeliveryException,Message=ERROR [HY000] [Microsoft][ODBC Oracle Wire Protocol driver][Oracle]ORA-39776: fatal Direct Path API error loading table 'STAGE'.'STG_CASH_FLOW' ORA-03137: malformed TTC packet from client rejected: [klaprs_11] [94] [512] [195] [60] [5262] [] [],Source=Microsoft.DataTransfer.ClientLibrary.Odbc.OdbcConnector,''Type=Microsoft.DataTransfer.ClientLibrary.Odbc.Exceptions.OdbcException,Message=ERROR [HY000] [Microsoft][ODBC Oracle Wire Protocol driver][Oracle]ORA-39776: fatal Direct Path API error loading table 'STAGE'.'STG_CASH_FLOW' ORA-03137: malformed TTC packet from client rejected: [klaprs_11] [94] [512] [195] [60] [5262] [] [],Source=msora28.dll,'

Troubleshooting

- Smaller set of Records tends to load without issue.

- Copy fails with errors for larger record size load/copy activity (> ~30k-40K) into Oracle Database Sink From Azure Data Factory (https://docs.microsoft.com/en-us/azure/data-factory/connector-oracle ⤢)
- Customer is found to be using Self-hosted Integration Run time version 5.2.7740.4 after collecting SHIR logs
- EnableBulkLoad=1 in Linked Service Properties/Connection String

Workaround

If the customer is prefers to stay on Self-hosted IR 5.2.7740.4, they need to disable "Bulk Load" Parameter, by setting value to 0 like below. Set EnableBulkLoad=0 for larger record loads to be successful and performant.

Resolution

Upgrade to the latest Version of SHIR, PG confirmed that the hotfix released by progress software has been incorporated in versions 5.4.7749.1 and above.

https://www.microsoft.com/en-us/download/details.aspx?id=39717 ⤢

Additional Information:

- **Icm References:**
- **Author:** haravis, ahmahmo
- **Reviewer:** brianwan
- **Keywords:**
- **Ava Post:** AVA post : Harish Ravishankar: Ava 121040724003650 Customer getting ORA-39776/ ORA03137 erro... ⤢ posted in ADF - CSS Collaboration / General at Friday, April 9, 2021 4:55:07 AM

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