Troubleshooting execution or failures of Data flow Activities

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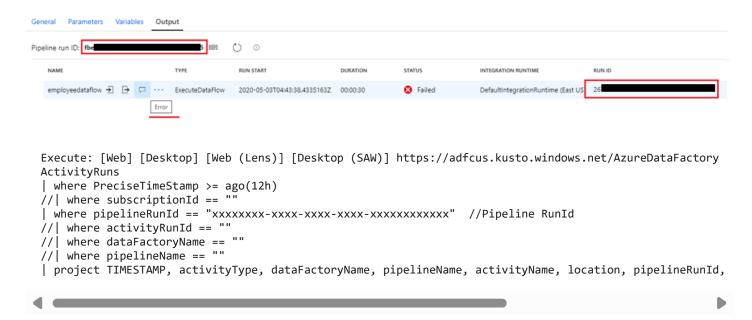
- Investigation
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A detailed description of tables:

| Table | What kind of errors we can expect |
|-----------------------|---|
| CustomLogEvents | Not able to create cluster/Databricks error |
| DatabricksLoggingTest | Error happens while running job on spark including transforming/transformed event - which tells about the progress, how many rows are processed till what stage. (stage is a combination of multiple transformations) |

Investigation

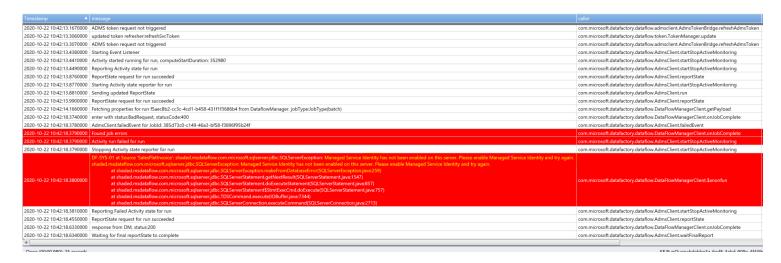
• To troubleshoot issues in executing Dataflow activities, you will need the Pipeline Runld or the Activity Runld. The error details can provide the reason for the failure. In case you have to investigate the issue from the backend, ask customer to share the pipelineRunld or ActivityRunld from the portal, or use the **ActivityRuns** table to get the runlds and status of the pipeline execution:





For more specific errors, you may leverage the DatabrickloggingTest table. (Using another example below as old runld expired)

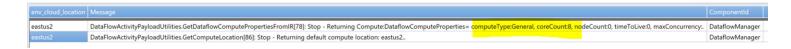
For instance for this specific activity run id



In this case, the DatabrickloggingTest table points to error that MSI auth is not enabled from DW to storage. We can ask the user to check if DW can access the storage account.

To check **Compute Type and Core Count**.

```
cluster('adfcus.kusto.windows.net').database('AzureDataFactory').AdfTraceEvent
| union cluster('adfneu.kusto.windows.net').database('AzureDataFactory').AdfTraceEvent
| where TraceCorrelationId == "XXXXXXXXXXXXXXXXXXXXXXXXXXXXX" //<PipelineRunId>
| where Message contains "DataFlowActivityPayloadUtilities"
| distinct env_cloud_location, Message,ComponentId
```



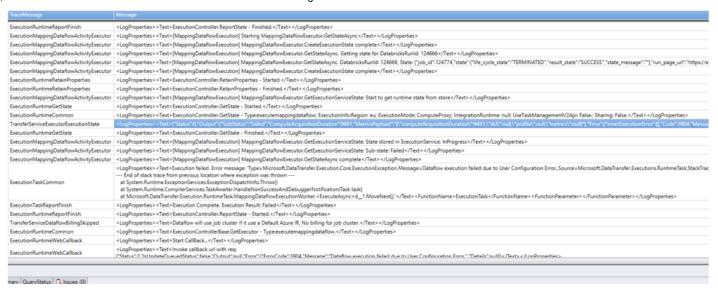
The below query helps us to get the DSL skeleton. Please use PipelineRunId in the below query. Note: May not be available for some Debug runs. PG team is working on this.

```
cluster('adfcus.kusto.windows.net').database('AzureDataFactory').DataFlowTelemetryEvent
| union cluster('adfneu.kusto.windows.net').database('AzureDataFactory').DataFlowTelemetryEvent
| where EventSource == "Broker"
| where TraceCorrelationId == ""
```

```
Event
  ],
  "sinks": [
     "datasetName": "sink1",
     "datasetStore": "adlsgen2",
     "connectorDatasetType": "INLINE",
     "datasetOptions": {
      "format": "'delta'",
      "transactionCommit": null,
      "quoteChar": null,
      "errorHandlingOption": null,
      "outputRejectedData": null,
      "rowDelimiter": null,
      "nullValue": null,
      "charToEscapeQuoteEscaping": null,
      "encodingName": null,
      "compressionCodec": null,
      "escapeChar": null,
      "reportSuccessOnError": null,
      "range": null,
       "commentChar": null,
      "sheetName": null,
      "columnNamesAsHeader": null,
      "sheetIndex": null,
      "columnDelimiter": null,
      "firstRowAsHeader": null
     "authenticationType": "AccountKey",
     "stagingStorageType": "",
     "stagingAuthenticationType": ""
   "transformations": {
    "aggregate": 1,
    "join": 2,
    "source": 3,
    "derive": 1,
    "foldDown": 1,
    'select": 1,
    'alterRow": 1,
    "sink": 1
 "runtimeDetails": {
  "dataflowName": null,
   "sinkRuntimeMetrics": null
```

• You may further guery the **CustomLogEvent** table to find the cause of the error:

```
CustomLogEvent
 where PreciseTimeStamp >= ago(12h)
 where ActivityId == "xxxxxxxx-xxxx-xxxx-xxxxx-xxxxx" //Activity RunId
 where Message has "Dataflow execution failed"
 project PreciseTimeStamp, Role, TraceMessage, Message, EventName, TraceComponent, StatusCode
sort by PreciseTimeStamp asc
```



Data Collection

If you've to engage a SME/EEE/PG, kindly request the following data from the customer:

- Failed Pipeline Runld or Activity Run Id for investigation
- **Pipeline Support Files**

NOTE: To retrieve <u>Dataflow backend logs</u>, please reach out to EEEs as it would need access via SAW machine.

Additional Information:

Icm References: <u>210506861</u> □

Keywords:

How good have you found this content?

