# TumblingWindow trigger didn't execute the pipeline

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This Troubleshooting Guide is part of a case study to find out the root cause why the Tumbling Window trigger didn't execute the pipeline.

## **Scenario**

Customer had configured a Tumbling window trigger to execute a pipeline run every 15 minutes. He observed that the trigger status as failed at  $\sim 04/22$  09:30 PM PST and pipeline didn't execute.



## Information shared by customer

## **Trigger Run Ids:**

- 08586139915838852823597470563CU31
- 08586139915846685337855758661CU08

#### **Trigger definition:**

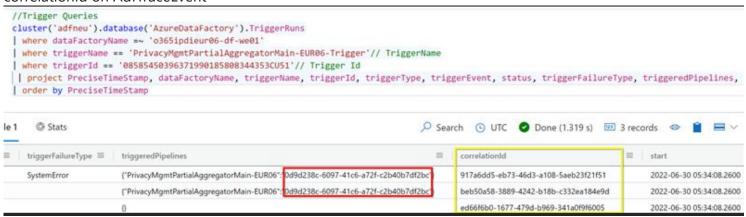
```
"type": "TumblingWindowTrigger",
"typeProperties": {
    "frequency": "Minute",
     "interval": 15,
     "startTime": "2020-01-17T00:00:00Z",
     "delay": "00:30:00",
     "maxConcurrency": 5
```

# Investigating the issue

1. Start by querying **TriggerRuns** table to find the TriggerStatus, error and TraceCorrelationId (PipelineRunId)

# 

**Note**: - you can find the PipelineRunId direct on triggeredPipelines column, rather than researching by the correlationId on AdfTraceEvent



2. Query the **ApiOperationEvent** table to find if the trigger was started or not

```
ApiOperationEvent
| where env_time >= datetime(2020-04-23 04:25) and env_time < datetime(2020-04-23 04:35:00)
//| where operationName has "PUT TriggerEvent" and
| where RequestUri has "08586139915838852823597470563CU31" //TriggerRunId
| where DataFactoryName =~ "COSMOSSINKERV2-VISUALSTUDIO" //DataFactoryName
| project env_time, operationName, DataFactoryName, RequestUri, TraceCorrelationId
```



#### ApiOperationEvent

```
| where env_time >= datetime(2020-04-23 04:25) and env_time < datetime(2020-04-23 04:35:00) | where TraceCorrelationId == "41495974-e5b6-4359-bce3-9e17247a2062" //PipelineRunId | where DataFactoryName =~ "COSMOSSINKERV2-VISUALSTUDIO" //DataFactoryName | project env_time, operationName, DataFactoryName, RequestUri, TraceCorrelationId
```

4				
env_time	▲ operationName	DataFactoryName	RequestUri	TraceCorrelationId
2020-04-23 04:30:53.161754	3 GET Events/GetAsync	Managashika VI Manastada	GET https://monsvccentralus.svc.datafactory.azure.com/api/tenants/5ce7bb44-1f62-49e4-bb55-16605ef36659/indexes/triggerruns/events/08586139915838852823597470563CU31?api-version=2016-11-01	41495974-e5b6-4359-bce3-9e17247a2062
2020-04-23 04:30:59.268653	6 PUT TriggerEvent/ReportTriggerEventStatusAsync	Ostomos Sinder VM Visual Situalis	PUT https://pmcentralus.svc.datafactory.azure.com/triggerevent/TumblingWindowTrigger/\$ 08586139915838852823597470563CU31	41495974-e5b6-4359-bce3-9e17247a2062
2020-04-23 04:30:59.274532	2 PUT Events/CreateOrUpdateAsync	Assessable 1/2 Mariands	PUT https://monsvccentralus.svc.datafactory.azure.com/api/tenants/5ce7bb44-1f62-49e4-bb55-16605ef36659/indexes/triggerruns/events?api-version=2016-11-01	41495974-e5b6-4359-bce3-9e17247a2062

Ideally, we should be seeing the **PUT Workflow/StartPipelineAsync** after the **PUT TriggerEvent** call, but it's not there, which means the trigger failed to execute the LogicApps workflow.

3. We can further debug this by querying the **AdfTraceEvent** table

```
AdfTraceEvent
```

```
where env_time >= datetime(2020-04-23 04:25) and env_time < datetime(2020-04-23 04:35:00)
where TraceCorrelationId == "41495974-e5b6-4359-bce3-9e17247a2062"
where ComponentId in ("PipelineManager", "MonitoringServiceClient")
project ComponentId ,env_cloud_role, env_time, Message , TraceCorrelationId</pre>
```

ComponentId	env_cloud_role	env_time	Message
PipelineManager	PipelineManager.PipelineWebRole	2020-04-23 04:30:53.0619548	Start RunTokenValidationFilter:OnAuthorization
PipelineManager	PipelineManager.PipelineWebRole	2020-04-23 04:30:53.0619548	RunTokenValidationFilter:OnAuthorization. Controller TriggerEvent expects Service Token
PipelineManager	PipelineManager.PipelineWebRole	2020-04-23 04:30:53.0619548	Stop RunTokenValidationFilter:OnAuthorization
PipelineManager	PipelineManager.PipelineWebRole	2020-04-23 04:30:53.0619548	TriggerEventController.ReportTriggerEventStatusAsync[229]: Start - for TriggerName=CosmosSinkerTrigger1, TriggerId=08586139915838852823597470563CU31 with SystemPropertStatusAsync[229]: Start - for TriggerName=CosmosSinkerTrigger1, TriggerName=CosmosSinkerTrigger1, TriggerName=CosmosSinkerTrigger1, TriggerName=CosmosSinkerTrigger1, TriggerName=CosmosSinkerTri
PipelineManager	PipelineManager.PipelineWebRole	2020-04-23 04:30:53.0619548	Start TriggerFactoryHandler.ReportTriggerEventToMonitoring
PipelineManager	PipelineManager.PipelineWebRole	2020-04-23 04:30:53.0619548	TumblingWindowTriggerHandler.ReportTriggerEventToMonitoring[263]: Start.
MonitoringServiceClient	PipelineManager.PipelineWebRole	2020-04-23 04:30:53.0619548	DataFactoryMonitoringServiceClient.GetTriggerRunAsync - starting for dataFactoryId 5ce7bb44-1f62-49e4-bb55-16605ef36659, id 08586139915838852823597470563CU31.
MonitoringServiceClient	PipelineManager.PipelineWebRole	2020-04-23 04:30:53.0813891	DataFactoryMonitoringServiceClient.GetRunAsync - started for dataFactoryId 5ce7bb44-1f62-49e4-bb55-16605ef36659, id 08586139915838852823597470563CU31.
MonitoringServiceClient	PipelineManager.PipelineWebRole	2020-04-23 04:30:53.1718657	DataFactoryMonitoringServiceClient.GetRunAsync - finished for dataFactoryId 5ce7bb44-1f62-49e4-bb55-16605ef36659, id 08586139915838852823597470563CU31. Run: Partitio
MonitoringServiceClient	PipelineManager.PipelineWebRole	2020-04-23 04:30:53.1718657	DataFactoryMonitoringServiceClient.GetTriggerRunAsync - finished for dataFactoryId 5ce7bb44-1f62-49e4-bb55-16605ef36659, id 08586139915838852823597470563CU31. Resul
PipelineManager	Pipeline Manager, Pipeline Web Role	2020-04-23 04:30:53.1718657	Tumbling/WindowTriggerHandler.ReportTriggerEventToMonitoring[283]: Retrieved triggerRun status: WaitingOnDependency, # of runs for triggered pipeline: 0, triggerName: Cosn "name": "Trigger_42188CAF-8E66-42CF-83DA-E3028693F304",     "inputs": {         "delay1: "PT30M"         },         "outputs": {         "windowStartTime": "2020-04-23T03:45:00Z",         "windowStartTime": "2020-04-23T04:00:00Z"
PipelineManager	PipelineManager.PipelineWebRole	2020-04-23 04:30:53.1718657	TumblingWindowTriggerHandler.ReportTriggerEventToMonitoring[307]: Updated triggerRun.Status = > Failed.
PipelineManager	PipelineManager.PipelineWebRole	2020-04-23 04:30:53.1718657	TumblingWindowTriggerHandler.ProcessUpstreamDependencyAsync[389]: Start.
MonitoringServiceClient	PipelineManager.PipelineWebRole	2020-04-23 04:30:53.1718657	DataFactoryMonitoringServiceClient.CreateOrUpdateTriggerRunAsync - starting for dataFactoryId 5ce7bb44-1f62-49e4-bb55-16605ef36659, run Partition , Id: 0858613991583885;
Monitoring Service Client	PipelineManager.PipelineWebRole	2020-04-23 04:30:53.1718657	Data Factory Monitoring Service Client. Create Or Update Run Async - started for data Factory Id 5ce7bb44-1f62-49e4-bb55-16605ef36659, run Partition , Id: 08586139915838852823597
MonitoringServiceClient	PipelineManager.PipelineWebRole	2020-04-23 04:30:59.2686536	Data Factory Monitoring Service Client. Create Or Update Run Async - finished for data Factory Id 5ce7bb44-1f62-49e4-bb55-16605ef36659, run Partition , Id: 0858613991583885282359
MonitoringServiceClient	PipelineManager.PipelineWebRole	2020-04-23 04:30:59.2686536	Data Factory Monitoring Service Client. Create Or Update Trigger Run Async-finished for data Factory Id 5ce7bb44-1f62-49e4-bb55-16605ef36659, run Partition, Id: 0858613991583885
PipelineManager	PipelineManager.PipelineWebRole	2020-04-23 04:30:59.2686536	TumblingWindowTriggerHandler.ProcessUpstreamDependencyAsync[410]: Stop - the triggerRun is not waiting on dependencies.
PipelineManager	PipelineManager.PipelineWebRole	2020-04-23 04:30:59.2686536	TumblingWindowTriggerHandler.ReportTriggerEventToMonitoring[361]: Stop.
PipelineManager	PipelineManager.PipelineWebRole	2020-04-23 04:30:59.2686536	Stop TriggerFactoryHandler.ReportTriggerEventToMonitoring
PipelineManager	PipelineManager.PipelineWebRole	2020-04-23 04:30:59.2686536	TriggerEventController.ReportTriggerEventStatusAsync[241]: Stop.

Kindly raise an Icm with ADF Orchestration team to find out the root cause for this issue. In this case, product group provided the root cause as below:

## Workaround

You may try to increase the tumbling trigger maxConcurrency on advanced settings to avail more threads than the stuck ones.

# **Product Group Root Cause**

The issue turned out to be a backend issue. Pipeline wasn't dispatched due a high load network issue and the user retries only apply after the pipeline run has dispatched

#### **Additional Information:**

- Icm References:
- Author: vimals
- Reviewer: vimals
- Keywords:

### How good have you found this content?

