Pipeline runs are throttled due to an excessive number of waiting runs

Last updated by | Supreeth Vasudevamurthy | Nov 15, 2022 at 3:16 PM PST

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Issue

Pipeline runs are throttled due to an excessive number of waiting runs

> Execution has been throttled as the concurrency value is set and a maximum number of waiting runs have been queued. Please wait for the current runs to complete or cancel stuck runs.

Cause

Maximum queued runs per pipeline is limited to 100 and Logic Apps has the limitation. [Azure Data Factory limits](#) ⬈

[Limits and configuration reference guide - Azure Logic Apps | Microsoft Learn](#) ⬈

Troubleshooting

1. Review the ActivityRuns and check the activityRunId where you see BadRequest in errorCode

2. You should be able to find the error message [The number of waiting for workflow runs '100' has exceeded the maximum allowed limit of '100']

```
cluster('adfcus.kusto.windows.net').database('AzureDataFactory').AdfTraceEvent
| union cluster('adfneu.kusto.windows.net').database('AzureDataFactory').AdfTraceEvent
| where SubscriptionId == tolower("<subscriptionId")
| where InternalCorrelationId == "<activityId>"
| project env_time, Message
```

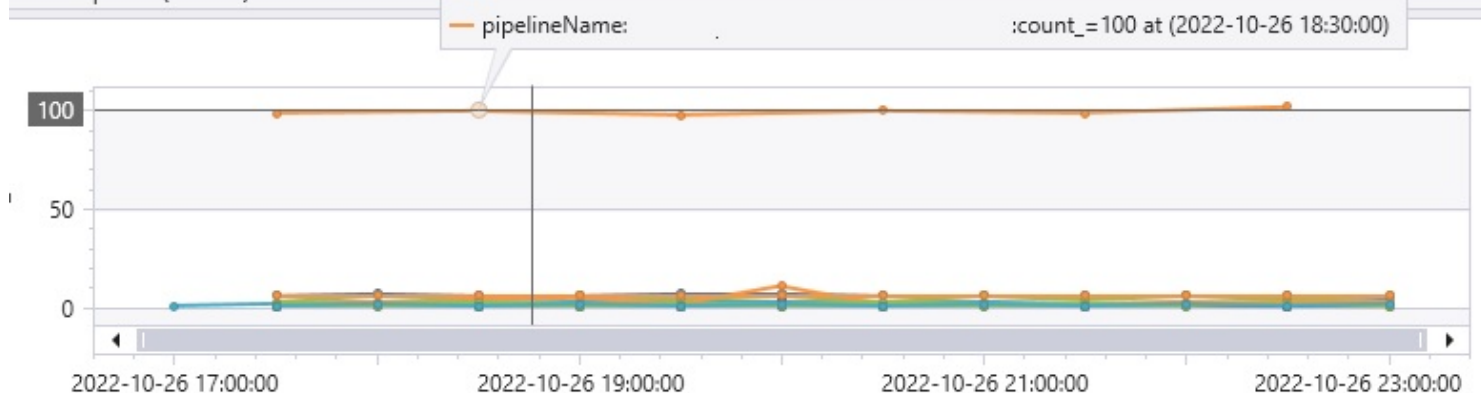| Message |
| --- |
| LogicAppsClient.HandleHttpResponseMessage[30]: Start - with statusCode=TooManyRequests header |
| LogicAppsClient.HandleHttpResponseMessage[59]: ErrorMessage ErrorCode=WorkflowMaximumWaitingRunCountExceeded, ErrorMessage=The number of waiting workflow runs '100' has exceeded the maximum allowed limit of '100'. Try increasing the value of 'maximumWaitingRuns' in trigger concurrency configuration.. |
| ExecutionHandlerBase.TriggerPipelineAsync[180]: TriggerPipelineAsync failed with exception: Microsoft.ADF.Contract.TooManyRequestsException: Execution has been throttled as concurrency value is set and maximum number of waiting runs have been queued. Please wait for current runs to complete or cancel stuck runs.at Microsoft.ADF.Contract.LogicAppsClient.HandleHttpResponseMessage(HttpResponseMessage response, Action`1 handler) in C:\source\Common\src\Contract\External\External\LogicAppsClient.cs:line 129 |

3. At a certain period, high concurrency of the queued pipeline can be observed.

```
>cluster('adfcus.kusto.windows.net').database('AzureDataFactory').PipelineRuns
| union cluster('adfneu.kusto.windows.net').database('AzureDataFactory').PipelineRuns
| where subscriptionId == toupper("<subscriptionId>")
| where PreciseTimeStamp > ago(<some time>)
| where status == "Queued"
| summarize count() by bin(PreciseTimeStamp,30m), pipelineName
| render timechart
```


Recommendation

1. Review the pipeline and its schedule which is causing the throttling
2. Adjust the concurrent pipeline limit

Note

Concurrency is how many pipelines can run at the same time.

Queue is how many pipelines will be in the queue waiting for the in progress pipelines to complete.

The error in this article will only appear if Customer has applied a concurrency setting, if Customer does not apply a concurrency setting, then the value of the queue will be much higher.

Reference 2210260040006963