Pipeline execution failing with the error: There are substantial concurrent external activity executions

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

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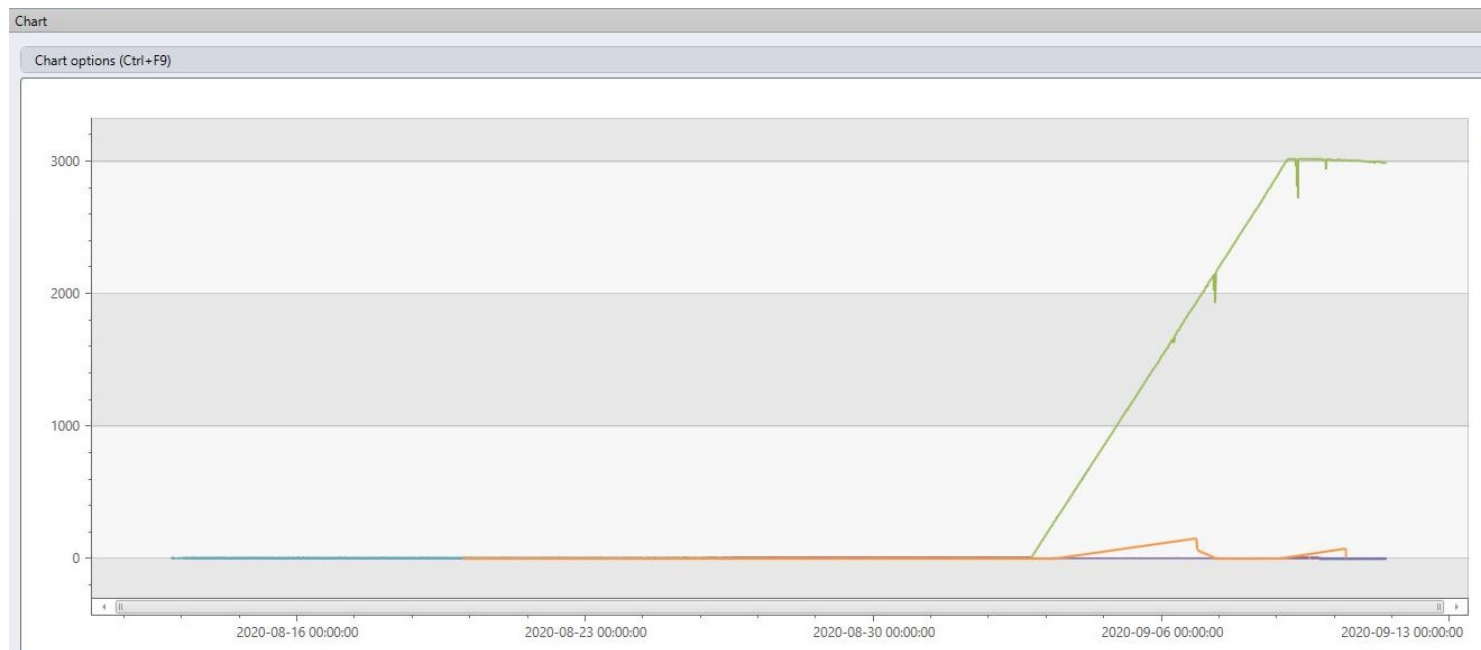- Resolution

Issue

Pipeline execution failing with the following error:

Operation on target <activityName> failed: There are substantial concurrent **external activity** executions which is causing failures due to throttling under subscription xxxxxxxx-xxxx-xxxx-xxxx-xxxxxxxxxxxx, region <region> and limitation 3000. Please reduce the concurrent executions or contact Microsoft support for further assistance. For limits, refer https://aka.ms/adflimits ⧉.

Investigation

Checked the current pipeline executions under the subscription:

```
ExecutionApiCall
| where SubscriptionId == "<subscriptionId>"
| summarize dcount(ActivityId) by bin(TIMESTAMP,5m), Status
| render timechart
```

Notice the InProgress job count and if it's 3000, it means customer is hitting the subscription limit as mentioned in this article: https://aka.ms/adflimits ☑

Resolution

Please check with the customer to understand the job he's running and how frequently he's executing it. ADF has limitation on concurrent run count. Max is 3000. If job creation speed exceeds the job handle speed, the concurrent count continues to grow and finally hit this limitation.

In this case, customer was running custom batch jobs every 3 mins which caused this issue. Probably, Batch started throttling the requests from ADF.

Additional Information:

- **Icm References:** Icm link ☑
- **Author:** vimals
- **Reviewer:** vimals
- **Keywords:**

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