

# Alert based on metrics PipelineElapsedTimeRuns isn't triggered

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## Issue

Alert based on metrics PipelineElapsedTimeRuns isn't triggered by Azure Monitor even if the condition is met

## Troubleshooting

1. Obtain the pipeline support files and see if the setting is correctly configured
2. Investigate the pipeline running status and see if metrics is processed
3. Collaborate with the Azure monitor team and check
  - correctly configured in Azure monitor side
  - Have them (Azure Monitor) check if the condition is evaluated in ASC
4. If the ADF side can confirm if metrics are processed in steps 1,2 and 3, you might want to suggest Azure monitor team to file an ICM

**Note** Involve SME as required if the Azure Monitor team requests a further investigation.


**Note for step 2** After receiving runId from the customer, inspect the AdfTraceEvent and find below messages that represent metrics that are correctly stored and sent.

```
>cluster('adfcus.kusto.windows.net').database('AzureDataFactory').AdfTraceEvent
| union cluster('adfneu.kusto.windows.net').database('AzureDataFactory').AdfTraceEvent
| where TraceCorrelationId == "b19d263d-766b-4084-af7e-d551e05cbc31"
| where Message contains "ElapsedTimerPipelineAlertAsync" or Message contains "ElapsedTimerPipelineMetricAsync"
| project env_time,Message
env_time      Message
```


env_time	Message
2022-06-09 18:26:01.5195619	WorkflowController.ElapsedTimerPipelineAlertAsync[90]: Start - RunId=b19d263d-766b-4084-af7e-d551e05cbc31, pipelineResourceType=Pipeline.
2022-06-09 18:26:01.5196502	WorkflowHandler.ElapsedTimerPipelineMetricAsync[370]: Start - For runId=b19d263d-766b-4084-af7e-d551e05cbc31.
2022-06-09 18:26:01.5311462	WorkflowHandler.ElapsedTimerPipelineMetricAsync[382]: Calling ElapsedTime Metric Emit ResourceID: /SUBSCRIPTIONS/ a91421b4a8df/RESOURCEGROUPS/ ANALYTICS/PROVIDERS/MICROSOFT.DATAFACTORY/FACTORIES/ ANALYTICS, sub -a91421b4a8df, rg: ANALYTICS, dfn: ANALYTICS, name: pipeline2, duration:11, region:canadacentral.
2022-06-09 18:26:01.5405176	WorkflowHandler.ElapsedTimerPipelineMetricAsync[401]: ElapsedTime Metric Logged sucessfully.
2022-06-09 18:26:01.5405715	WorkflowHandler.ElapsedTimerPipelineMetricAsync[404]: Stop - For runId=b19d263d-766b-4084-af7e-d551e05cbc31.
2022-06-09 18:26:01.5406154	WorkflowController.ElapsedTimerPipelineAlertAsync[104]: Stop - RunId=b19d263d-766b-4084-af7e-d551e05cbc31.

## Additional information

Data Factory metrics and alerts <https://docs.microsoft.com/en-us/azure/data-factory/monitor-metrics-alerts> 

Deliver service level agreement for data pipelines <https://docs.microsoft.com/en-us/azure/data-factory/tutorial-operationalize-pipelines> 

In ASC, the Azure monitor team can view how metrics are evaluated and alerts sent under Microsoft.Insights/Execution History. Also, you can see the Geneva logs for the alert.

 Show additional status

- > Microsoft.DataFactory
- > Microsoft.DocumentDb
- > Microsoft.EventHub
- ✓ microsoft.insights
  - > actiongroups
  - ✓ metricalerts

Pipeline is running over 10 min

▼ SUCCESS : EVALUATION COMPLETE - ALERT ACTIVATED - NOTIFICATION SENT						
—	664d1aa8-397f-486d-9a7c-6f89d99f6b55	2022-06-17 05:12:16	2022-06-17 05:05:16 - 2022-06-17 05:09:16	1 timeseries evaluated, 0 timeseries healthy, 1 timeseries unhealthy	COMPLETE	FIRED
<a href="#">logs</a>						
Monitor Trace Id 664d1aa8-397f-486d-9a7c-6f89d99f6b55						
Execution Start Time 2022-06-17 05:12:16						
Metric Data Window 2022-06-17 05:05:16 - 2022-06-17 05:09:16						
Evaluation Result 1 timeseries evaluated, 0 timeseries healthy, 1 timeseries unhealthy						
Evaluation Data {} -> {"Event 1 evaluation":"Event [1 * (+[Sum of Sum of (PipelineElapsedTimeRuns,Sum)])] >= 1]. Evaluated value 1.,"Events violating						
Evaluation status COMPLETE						
Alert status FIRED						
Evaluation Logs <a href="#">logs</a>						
Status SUCCESS : EVALUATION COMPLETE - ALERT ACTIVATED - NOTIFICATION SENT						
AMP Confirmed Yes (CorrelationId = 4dc13ab6-0180-4d06-8294-f1bdf449b0f4)						
Notification Sent From AMP True						
Notification status SENT						

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