Troubleshooting Web Activity or Web Hook Activity

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This TSG will help in troubleshooting web activity or web hook activity scenarios using Kusto and other tools. Please ensure you've checked the following TSGs for Common Error & Fixes

- Common Errors & Fixes - Web Activity
- Common Errors & Fixes - Azure Function

Data Collection

To start investigating pipeline/web activity failure using Kusto, capture the Pipeline RunId or failing Web Activity RunId from the customer.

It is also advisable to capture the Pipeline Logs from the customer when working on such cases to have better understanding of the pipeline configured.

We usually call a HTTP or REST endpoint using web activity or web hook activity. You can also use Postman to query the endpoint to isolate the issue with the endpoint or the data factory activity. If the endpoint is working from Postman and failing from Data Factory, then we can use the Kusto logs to troubleshoot further, otherwise we need to understand the error thrown by Postman. A Fiddler/HTTP trace can also assist in this scenario.

Troubleshooting

1. Start by looking at the **PipelineRuns** table to check the status of the Pipeline. This table can show you the status of the pipeline execution:

```
cluster('adfcus').database('AzureDataFactory').PipelineRuns | union cluster('adfneu').database('AzureDataFacto
| where TIMESTAMP >= ago(5d)
| where runId == "8a18943a-9572-4e30-840c-6a6f1bc8cbe9"          //PipelineRunId
| project PreciseTimeStamp, dataFactoryName, runId, pipelineName , ['location'], status, failureType, start, e
| order by PreciseTimeStamp asc
```

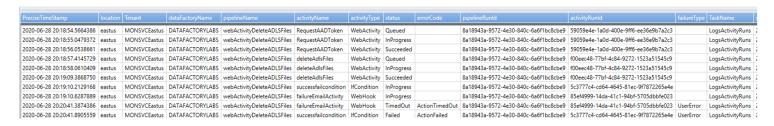| PreciseTimeStamp	dataFactoryName	runId	pipelineName	location	status	failureType	start	end	predecessors
2020-06-28 20:18:53.8316174	DATAFACTORYLABS	8a18943a-9572-4e30-840c-6a6f1bc8cbe9	webActivityDeleteADLSFiles	eastus	Queued		2020-06-28 20:18:53.7496931	1601-01-01 00:00:00.0000000	[{"Name":"Manual","Id":"3a0652df22c24198955c2b4517524ea0","InvokedByType":"Manual"}]
2020-06-28 20:20:42.4058805	DATAFACTORYLABS	8a18943a-9572-4e30-840c-6a6f1bc8cbe9	webActivityDeleteADLSFiles	eastus	Failed	UserError	2020-06-28 20:18:53.7496931	2020-06-28 20:20:42.3573860	[{"Name":"Manual","Id":"3a0652df22c24198955c2b4517524ea0","InvokedByType":"Manual"}]

2. Query the **ActivityRuns** table to show the status of the various activities in that pipeline.

```
cluster('adfcus').database('AzureDataFactory').ActivityRuns | union cluster('adfneu').database('AzureDataFacto
| where TIMESTAMP >= ago(15d)
//| where dataFactoryName == ""
//| where pipelineName == ""
//| where activityRunId == "{activityRunId}" //ActivityRunId
| where pipelineRunId == "{pipelineRunId}"   //PipelineRunId
| order by PreciseTimeStamp asc
```
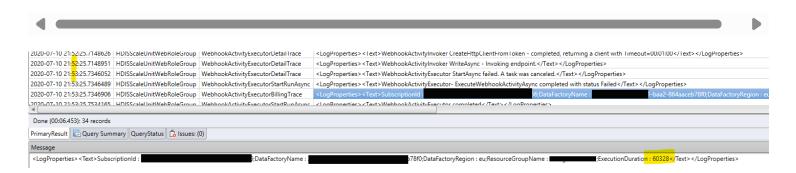
You can query the ActivityRuns table either with the ActivityRunId or PipelineRunId. Each successful activity will have status like Queued -> InProgress -> Succeeded and failed activity will have status similar to Queued -> InProgress -> Failed.

The following screenshot shows all the activities which are called as part of the pipeline execution. You can check the status of each activity in the status column.

PreciseTimeStamp	location	Tenant	dataFactoryName	pipelineName	activityName	activityType	status	errorCode	pipelineRunId	activityRunId	failureType	TaskName
2020-06-28 20:18:54.5664386	eastus	MONSVCEastus	DATAFACTORYLABS	webActivityDeleteADLSFiles	RequestAADToken	WebActivity	Queued		8a18943a-9572-4e30-840c-6a6f1bc8cbe9	59059e4e-1a0d-400e-9ff6-ee36e9b7a2c3		LogsActivityRuns
2020-06-28 20:18:55.0479372	eastus	MONSVCEastus	DATAFACTORYLABS	webActivityDeleteADLSFiles	RequestAADToken	WebActivity	InProgress		8a18943a-9572-4e30-840c-6a6f1bc8cbe9	59059e4e-1a0d-400e-9ff6-ee36e9b7a2c3		LogsActivityRuns
2020-06-28 20:18:56.0538661	eastus	MONSVCEastus	DATAFACTORYLABS	webActivityDeleteADLSFiles	RequestAADToken	WebActivity	Succeeded		8a18943a-9572-4e30-840c-6a6f1bc8cbe9	59059e4e-1a0d-400e-9ff6-ee36e9b7a2c3		LogsActivityRuns
2020-06-28 20:18:57.4145729	eastus	MONSVCEastus	DATAFACTORYLABS	webActivityDeleteADLSFiles	deleteAdlsFiles	WebActivity	Queued		8a18943a-9572-4e30-840c-6a6f1bc8cbe9	f00eec48-77bf-4c84-9272-1523a51545c9		LogsActivityRuns
2020-06-28 20:18:58.0610409	eastus	MONSVCEastus	DATAFACTORYLABS	webActivityDeleteADLSFiles	deleteAdlsFiles	WebActivity	InProgress		8a18943a-9572-4e30-840c-6a6f1bc8cbe9	f00eec48-77bf-4c84-9272-1523a51545c9		LogsActivityRuns
2020-06-28 20:19:09.3868750	eastus	MONSVCEastus	DATAFACTORYLABS	webActivityDeleteADLSFiles	deleteAdlsFiles	WebActivity	Succeeded		8a18943a-9572-4e30-840c-6a6f1bc8cbe9	f00eec48-77bf-4c84-9272-1523a51545c9		LogsActivityRuns
2020-06-28 20:19:10.2129168	eastus	MONSVCEastus	DATAFACTORYLABS	webActivityDeleteADLSFiles	successfailcondition	IfCondition	InProgress		8a18943a-9572-4e30-840c-6a6f1bc8cbe9	5c3777c4-cd64-4645-81ec-9f7872265e4e		LogsActivityRuns
2020-06-28 20:19:10.6287889	eastus	MONSVCEastus	DATAFACTORYLABS	webActivityDeleteADLSFiles	failureEmailActivity	WebHook	InProgress		8a18943a-9572-4e30-840c-6a6f1bc8cbe9	85ef4999-14da-41c1-94bf-5705dbbfe023		LogsActivityRuns
2020-06-28 20:20:41.3874386	eastus	MONSVCEastus	DATAFACTORYLABS	webActivityDeleteADLSFiles	failureEmailActivity	WebHook	TimedOut	ActionTimedOut	8a18943a-9572-4e30-840c-6a6f1bc8cbe9	85ef4999-14da-41c1-94bf-5705dbbfe023	UserError	LogsActivityRuns
2020-06-28 20:20:41.8905559	eastus	MONSVCEastus	DATAFACTORYLABS	webActivityDeleteADLSFiles	successfailcondition	IfCondition	Failed	ActionFailed	8a18943a-9572-4e30-840c-6a6f1bc8cbe9	5c3777c4-cd64-4645-81ec-9f7872265e4e	UserError	LogsActivityRuns

3. Query **CustomEventLog** table to query the logs for Web Activity or WebHook activity.

```
cluster('Azuredmprod').database('AzureDataMovement').CustomLogEvent
| where PreciseTimeStamp >= ago(15d)
| where ActivityId == "{activityRunId}"
| project PreciseTimeStamp, Role, TraceMessage, Message, EventName, TraceComponent, StatusCode, SubscriptionId
| sort by PreciseTimeStamp asc
```

2020-07-10 21:52:25.7148626	HDISScaleUnitWebRoleGroup	WebhookActivityExecutorDetailTrace	<LogProperties><Text>WebhookActivityInvoker CreateHttpClientFromToken - completed, returning a client with Timeout=00:01:00</Text></LogProperties>
2020-07-10 21:52:25.7148951	HDISScaleUnitWebRoleGroup	WebhookActivityExecutorDetailTrace	<LogProperties><Text>WebhookActivityInvoker WriteAsync - Invoking endpoint.</Text></LogProperties>
2020-07-10 21:53:25.7346052	HDISScaleUnitWebRoleGroup	WebhookActivityExecutorDetailTrace	<LogProperties><Text>WebhookActivityExecutor StartAsync failed. A task was canceled.</Text></LogProperties>
2020-07-10 21:53:25.7346489	HDISScaleUnitWebRoleGroup	WebhookActivityExecutorStartRunAsync	<LogProperties><Text>WebhookActivityExecutor- ExecuteWebhookActivityAsync completed with status Failed</Text></LogProperties>
2020-07-10 21:53:25.7346906	HDISScaleUnitWebRoleGroup	WebhookActivityExecutorBillingTrace	<LogProperties><Text>SubscriptionId : ████████████████6;DataFactoryName : ████████-baa2-864aaceb78f0;DataFactoryRegion : eu
2020-07-10 21:53:25.7534165	HDISScaleUnitWebRoleGroup	WebhookActivityExecutorStartRunAsync	<LogProperties><Text>WebhookActivityExecutor completed</Text></LogProperties>

Done (00:06.453): 34 records

PrimaryResult | Query Summary | QueryStatus | Issues: (0)

Message

<LogProperties><Text>SubscriptionId : ███████████████████6;DataFactoryName : ███████████████78f0;DataFactoryRegion : eu;ResourceGroupName : ██████████;ExecutionDuration : 60328</Text></LogProperties>

Additional Information:

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

How good have you found this content?