How to find the Child Pipeline activity runs in ExecutePipeline activity scenario

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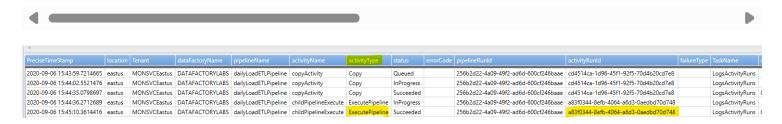
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Issue

Sometimes our Parent pipeline fails due to activity failure in one of the child pipelines. This TSG will help to find the activity in child pipeline (ExecutePipeline) runs which has failed.
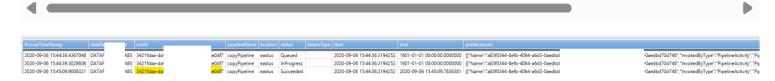
Resolution

1. Query the **ActivityRuns** table and provide the Pipeline RunId of the Parent Pipeline:

```
cluster('adfcus').database('AzureDataFactory').ActivityRuns | union cluster('adfneu').database('AzureDataFacto
| where TIMESTAMP >= ago(21d)
//| where dataFactoryName =~ "<DataFactoryName>"
//| where pipelineName =~ "<PipelineName>"
//| where activityRunId == "<ActivityRunId>"    //ActivityRunId
| where pipelineRunId == "<PipelineRunId>" //PipelineRunId of the ParentPipeline
| project PreciseTimeStamp, location, Tenant, dataFactoryName, pipelineName, activityName, activityType, statu
| order by PreciseTimeStamp asc
```

PreciseTimeStamp	location	Tenant	dataFactoryName	pipelineName	activityName	activityType	status	errorCode	pipelineRunId	activityRunId	failureType	TaskName	
2020-09-06 15:43:59.7214665	eastus	MONSVCEastus	DATAFACTORYLABS	dailyLoadETLPipeline	copyActivity	Copy	Queued		256b2d22-4a09-49f2-ad6d-600cf246baae	cd4514ca-1d96-45f1-92f5-70d4b20cd7e8		LogsActivityRuns	
2020-09-06 15:44:02.5521476	eastus	MONSVCEastus	DATAFACTORYLABS	dailyLoadETLPipeline	copyActivity	Copy	InProgress		256b2d22-4a09-49f2-ad6d-600cf246baae	cd4514ca-1d96-45f1-92f5-70d4b20cd7e8		LogsActivityRuns	
2020-09-06 15:44:35.0798697	eastus	MONSVCEastus	DATAFACTORYLABS	dailyLoadETLPipeline	copyActivity	Copy	Succeeded		256b2d22-4a09-49f2-ad6d-600cf246baae	cd4514ca-1d96-45f1-92f5-70d4b20cd7e8		LogsActivityRuns	
2020-09-06 15:44:36.2712689	eastus	MONSVCEastus	DATAFACTORYLABS	dailyLoadETLPipeline	childPipelineExecute	ExecutePipeline	InProgress		256b2d22-4a09-49f2-ad6d-600cf246baae	a83f0344-8efb-4064-a6d3-0aedbd70d748		LogsActivityRuns	
2020-09-06 15:45:10.3614416	eastus	MONSVCEastus	DATAFACTORYLABS	dailyLoadETLPipeline	childPipelineExecute	ExecutePipeline	Succeeded		256b2d22-4a09-49f2-ad6d-600cf246baae	a83f0344-8efb-4064-a6d3-0aedbd70d748		LogsActivityRuns	

2. Copy the activityRunId from the result and query the **PipelineRuns** table as below:

```
cluster('adfcus').database('AzureDataFactory').PipelineRuns | union cluster('adfneu').database('AzureDataFacto
| where TIMESTAMP >= ago(21d)
| where predecessors has "a83f0344-8efb-4064-a6d3-0aedbd70d748" //Replace with ExecutePipeline activityRunId
| project PreciseTimeStamp, dataFactoryName, runId, pipelineName , ['location'], status, failureType, start, e
| order by PreciseTimeStamp asc
```

PreciseTimeStamp	dataFa...	e	runId		pipelineName	location	status	failureType	start	end	predecessors	
2020-09-06 15:44:36.4367048	DATAF	ABS	3421fdaa-da!	e0df7	copyPipeline	eastus	Queued		2020-09-06 15:44:36.3194252	1601-01-01 00:00:00.0000000	[{"Name":"a83f0344-8efb-4064-a6d3-0aedbd	-0aedbd70d748","InvokedByType":"PipelineActivity","Pi
2020-09-06 15:44:39.3028606	DATAF	ABS	3421fdaa-da!	e0df7	copyPipeline	eastus	InProgress		2020-09-06 15:44:36.3194252	1601-01-01 00:00:00.0000000	[{"Name":"a83f0344-8efb-4064-a6d3-0aedbd	-0aedbd70d748","InvokedByType":"PipelineActivity","Pi
2020-09-06 15:45:09.9008321	DATAF	ABS	3421fdaa-da!	e0df7	copyPipeline	eastus	Succeeded		2020-09-06 15:44:36.3194252	2020-09-06 15:45:09.7836381	[{"Name":"a83f0344-8efb-4064-a6d3-0aedbd	-0aedbd70d748","InvokedByType":"PipelineActivity","Pi

3. Copy the runId and query the **ActivityRuns** table again to get the child pipeline activity runs:

```
cluster('adfcus').database('AzureDataFactory').ActivityRuns | union cluster('adfneu').database('AzureDataFacto
| where TIMESTAMP >= ago(21d)
| where pipelineRunId == "3421fdaa-da92-41ec-978b-a42b223e0df7" //PipelineRunId of the childPipeline
| project PreciseTimeStamp, location, Tenant, dataFactoryName, pipelineName, activityName, activityType, statu
| order by PreciseTimeStamp asc
```

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Additional Information:

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

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