

[Draft] Repickup related troubleshooting

Last updated by | Ruoyu Li | Dec 1, 2022 at 1:13 AM PST

Normal pickup process

Orch --> executeActivityAsync --> ADMS - Execution API

Understanding repickup

- Repickup is **by design** behavior, it's like a service retry operation.
- Service needs to avoid any pickup delay/stuck so we implement to retry pickup to protect from transient failure and improve resilience.
- Only once activity execution is not always guaranteed and customer should make sure their activity is idempotent

Note: Repickup is just the result which can be caused by many reasons.

How to detect repickup

- Multiple **PullOffNewTask** lines and increased **TaskCurrentRetryCount**
- Pickup retry **interval**: 10 min

PreciseTimeStamp	TraceComponent	LogId	Message
2022-08-10 18:49:09.1396912	StorageQueueAccess	JobEntityCreatedInAzureTable	null
2022-08-10 18:49:09.1920629	StorageQueueAccess	JobCreated	null
2022-08-10 18:49:09.2676922	TaskManagementService	PulledOffNewTask	TaskMaxRetryCount:10, TaskCurrentRetryCount:1
2022-08-10 18:49:09.2678490	TaskManagementService	TaskPickUpLatency	null
2022-08-10 18:59:09.2836113	TaskManagementService	PulledOffNewTask	TaskMaxRetryCount:10, TaskCurrentRetryCount:2
2022-08-10 18:59:09.2836934	TaskManagementService	TaskPickUpLatency	null

- Maximum pickup retry count is 10, afterwards it will report error like *SystemErrorActivityRunExecutedMoreThanOnce*

2022-03-16 08:25:23.9560250	TraceComponentId: TransferTask TraceMessageId: ExecutionRuntimeReportActivityRepickup @logId: Warning jobId: 5290f470-4cbe-414e-90e5-e1398a23d36c activityId: 5290f470-4cbe-414e-90e5-e1398a23d36c eventId: ExecutionRuntimeReportActivityRepickup message: Task Repickup 11 times exceed maxRetryCount 10.
2022-03-15 20:43:56.1704329	Copy failed with error: 'Type: Microsoft.DataTransfer.Common.Shared.HybridDeliveryException,Message= The activity run failed due to service internal error, please retry this activity run later.,Source=Mic... at Microsoft.DataTransfer.TransferTask.CopyTask.FailTaskFor(PickupTaskFailure) at Microsoft.DataTransfer.TransferTask.CopyTask.DoCopy() at Microsoft.DataTransfer.TransferTask.CopyTaskBase.Execute(); Job ID: 739c081e-970d-f431-b694-4ec36ff3634b Log ID: Error

Why repickup happened

Typical Scenario 1 - Worker Crash after pickup

[Copy-activity-failed-with-ErrorCode-SystemErrorActivityRunExecutedMoreThanOnce-\(due-to-parquet-serializer-crashed-diawp\)](#)

Typical Scenario 2 - repickup causes duplicate run

[Add a separate page]