DSS013 - Data Sync - XEvent

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Data Sync - XEvent

We can create an extended event session on both databases to be able to get more information.

You will need to:

1. Connect to the database, create and enable the event:

```
--Create the XEvent
CREATE EVENT SESSION [DataSync_XEvent] ON DATABASE
ADD EVENT sqlserver.error_reported
(
ACTION ( sqlserver.client_app_name,sqlserver.client_connection_id,sqlserver.database_id,sqlserver.databas
    WHERE ( [error_number]=(241) OR [error_number]=(242) OR [error_number]=(515) OR [error_number]=(547)
OR [error_number]=(-2) OR [error_number]=(0) OR [error_number]=(207) OR [error_number]=(208) OR [error_nu
)
ADD TARGET package0.ring_buffer
WITH (MAX_MEMORY=4096 KB,EVENT_RETENTION_MODE=ALLOW_SINGLE_EVENT_LOSS,MAX_DISPATCH_LATENCY=30 SECONDS,MAX
GO


--Start the XEvent
ALTER EVENT SESSION [DataSync_XEvent] ON DATABASE
STATE = START;
GO
```

2. Wait for a scheduled sync or trigger a sync

3. Query the event data using:

```
-- Query the event data
WITH cte AS (
    SELECT CAST(target_data AS XML) AS event_data
    FROM sys.dm_xe_database_session_targets xest
    JOIN sys.dm_xe_database_sessions xes ON xes.address = xest.event_session_address
    WHERE xes.name = 'DataSync_XEvent'
),
events_cte AS (
SELECT DATEADD(mi,DATEDIFF(mi, GETUTCDATE(), CURRENT_TIMESTAMP),
event_data.value('(RingBufferTarget/event/@timestamp)[1]', 'datetime2')) AS [err_timestamp],
event_data.value('(RingBufferTarget/event/data[@name="severity"]/value)[1]', 'bigint') AS [err_severity],
event_data.value('(RingBufferTarget/event/data[@name="error_number"]/value)[1]', 'bigint') AS [err_number
event_data.value('(RingBufferTarget/event/data[@name="message"]/value)[1]', 'nvarchar(512)') AS [err_mess
event_data.query('(RingBufferTarget/event/action[@name="sql_text"]/value)[1]') AS [sql_text],
event_data.query('(RingBufferTarget/event/action[@name="tsql_stack"]/value/frames/frame)') AS [tsql_stack
event_data.value('(RingBufferTarget/event/action[@name="client_app_name"]/value)[1]', 'nvarchar(max)') AS
event_data.value('(RingBufferTarget/event/action[@name="username"]/value)[1]', 'nvarchar(max)') AS [usern

event_data
FROM cte)
SELECT * from events_cte order by err_timestamp;
```

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4. After collecting the information and shared it with me you can stop the extended event

```
--Stop the XEvent
ALTER EVENT SESSION [DataSync_XEvent] ON DATABASE
STATE = STOP;
```

5. After we were able to fix the issue you can delete the event using

```
--Delete the XEvent
DROP EVENT SESSION [DataSync_XEvent] ON DATABASE
```

How good have you found this content?