

Extended Events Collect Deletion Operations on tables

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Issue

Sample to create an .xel file with extended events generated each time that is detected a "DELETE FROM" operation

Investigation/Analysis

For SQL DB, if you want the extended events to save the events information on a file it requires the use of remote azure storage because end user doesn't have direct access to local storage. Volume of data is directly related to how busy your server is and filters you apply to the events. If your application has high volume of queries, it's best to do filtering to specifically what you need. High volume (busy) database generates many events, large volume of unfiltered tracing could cause delay writing to remote storage and cause the workload to slowdown.

While doing tracing, monitor your application behavior very closely and stop immediately if you see the performance is being impacted.

If it's a busy system and the performance is crucial, then think about applying the option `WITH EVENT_RETENTION_MODE = ALLOW_MULTIPLE_EVENT_LOSS` but on the other hand if getting the event is critical and having performance impact is something customer can assume responsibility then think about using the option `WITH EVENT_RETENTION_MODE = NO_EVENT_LOSS`.

Keep tracing short if possible and stop it as soon as you get what you need.

Mitigation

```
CREATE DATABASE SCOPED CREDENTIAL [https://azurestorageaccount.blob.core.windows.net/events]
WITH IDENTITY='SHARED ACCESS SIGNATURE',
SECRET = 'sp=racwdl&st=2021-07-15T14:30:44Z&se=2021-07-16T14:30:44Z&sv=2020-08-04&sr=c&sig=xxxxA0Hzo2HkPIgCc%2

CREATE EVENT SESSION ssEventodelete
ON DATABASE
ADD EVENT sqlserver.sql_batch_completed (
ACTION ([sqlserver.client_app_name,sqlserver.client_connection_id,sqlserver.client_hostname,sqlserver.client_p
WHERE ([sqlserver.sql_text] like '%delete from%'))
ADD TARGET package0.event_file(
SET filename=N'https://azurestorageaccount.blob.core.windows.net/events/DemoDelete.xel')

ALTER EVENT SESSION ssEventodelete ON DATABASE STATE=START
```

Public Doc Reference (optional)

[CREATE EVENT SESSION](#) 

How good have you found this content?

