



THANK YOU, THAT CONFERENCE SPONSORS!

























Tell SQL Server Profiler to Take a Hike

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Yes!

 Slides and demos available at http://blogs.lessthandot.com/?p=4277













Why are you still using Profiler?

I can do everything I need to do in it. Why learn a new tool?

I know Profiler is a separate program I open. How do I open Extended Events?

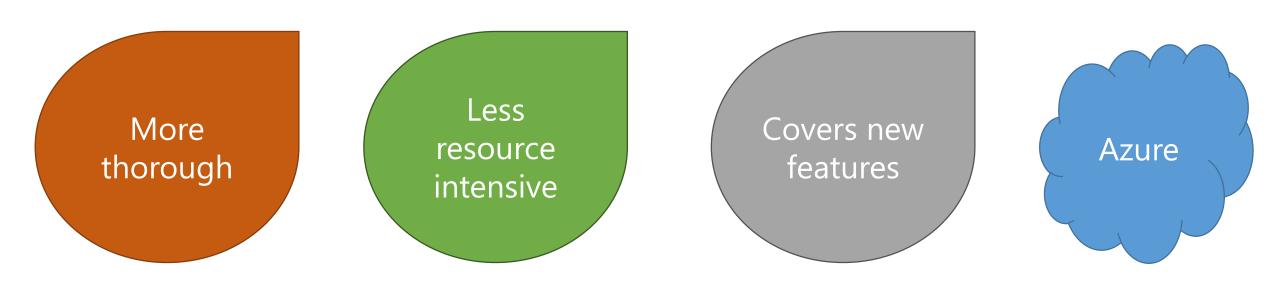
I can save data to a table automatically.

The XE interface isn't exactly the same.

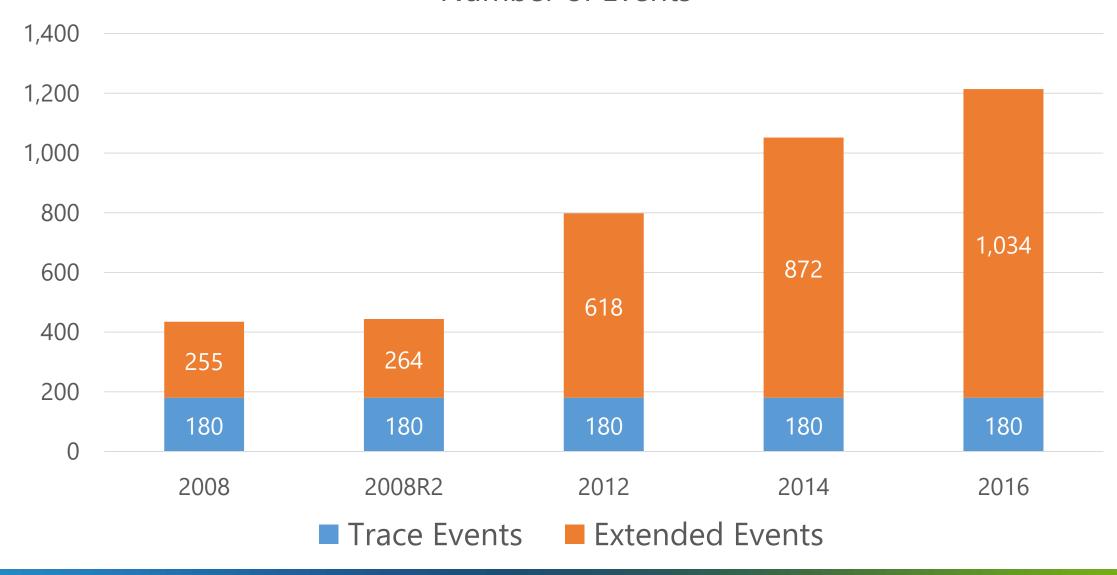




Why use Extended Events?

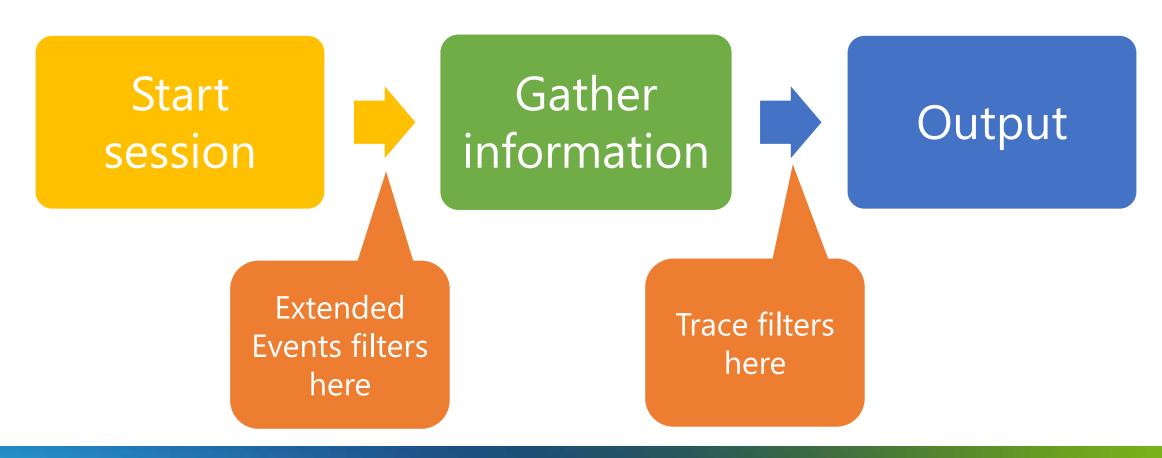


Number of Events





Post-processing vs Pre-processing





Extended Events in Real Life



Common uses of Profiler

- Capture all queries executed and their performance
- Capture deadlocks
- Capture errors and warnings as they're generated



Common uses of Extended Events

- Capture all queries executed and their performance
- Capture deadlocks
- Capture errors and warnings as they're generated



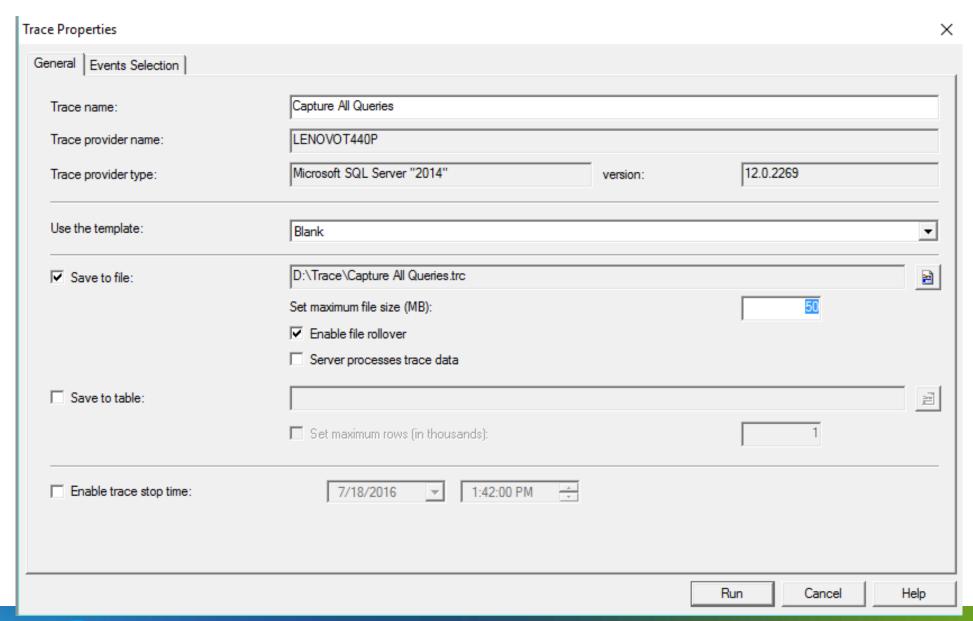
Capturing all queries



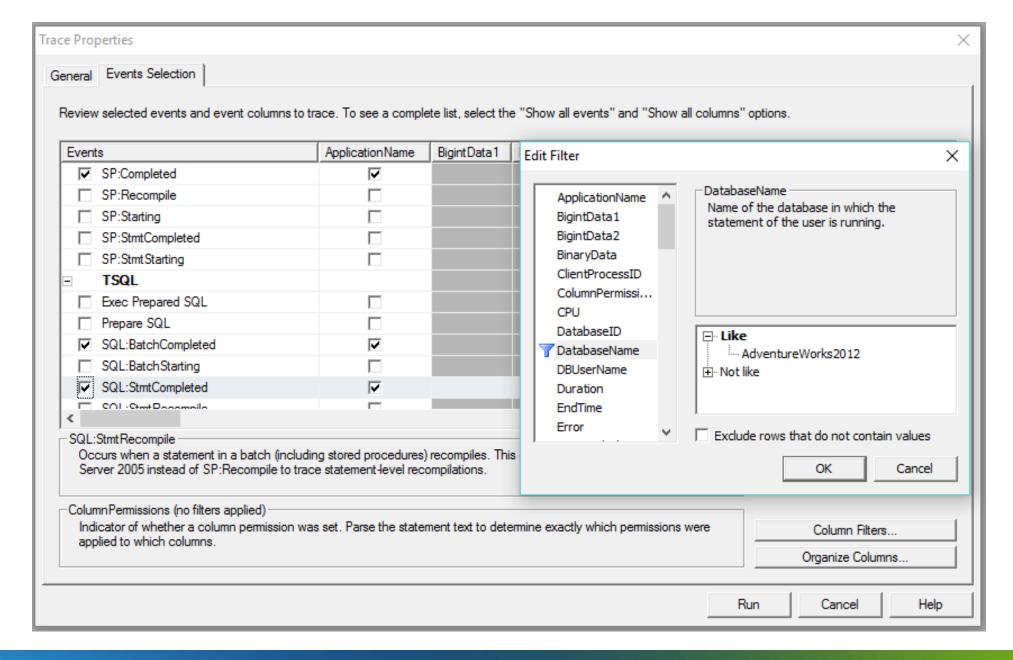
Microsoft SQL Server Management Studio













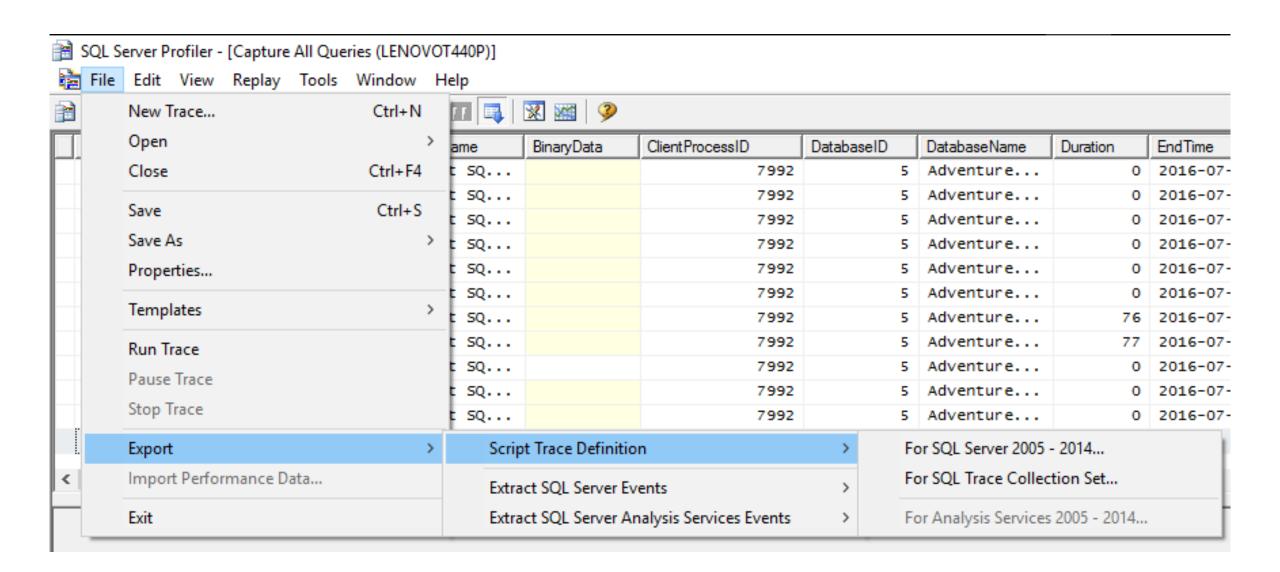


|--|

EventClass	ApplicationName	BinaryData	ClientProcessID	DatabaseID	DatabaseName	Duration
Trace Start						
SQL:StmtCompleted	Microsoft SQ		7992	5	Adventure	0
SQL:StmtCompleted	Microsoft SQ		7992	5	Adventure	0
SQL:BatchCompleted	Microsoft SQ		7992	5	Adventure	0
SQL:StmtCompleted	Microsoft SQ		7992	5	Adventure	0
SQL:BatchCompleted	Microsoft SQ		7992	5	Adventure	0
SQL:StmtCompleted	Microsoft SQ		7992	5	Adventure	0
SQL:StmtCompleted	Microsoft SQ		7992	5	Adventure	0
SQL:StmtCompleted	Microsoft SQ		7992	5	Adventure	0
SQL:StmtCompleted	Microsoft SQ		7992	5	Adventure	0
SQL:StmtCompleted	Microsoft SQ		7992	5	Adventure	0
SQL:StmtCompleted	Microsoft SQ		7992	5	Adventure	0
SOI:StmtCompleted	Microsoft SO		7992	5	Adventure	0

exec uspGetBillOfMaterials 505, '1/1/2009'







```
-- Create a Queue
 8 ⊟declare @rc int
 9 | declare @TraceID int
10 | declare @maxfilesize bigint
11 set @maxfilesize = 50
12
13 å-- Please replace the text InsertFileNameHere, with an appropriate
14 -- filename prefixed by a path, e.g., c:\MyFolder\MyTrace. The .trc extension
15 | -- will be appended to the filename automatically. If you are writing from
16 -- remote server to local drive, please use UNC path and make sure server has
   -- write access to your network share
18
19 | exec @rc = sp_trace_create @TraceID output, 0, N'InsertFileNameHere', @maxfiles
   if (@rc != 0) goto error
21
22 \(\daggerightarrow\) -- Client side File and Table cannot be scripted
23
24 -- Set the events
25 declare @on bit
26 | set @on = 1
27 exec sp trace setevent @TraceID, 43, 1, @on
28 | exec sp_trace_setevent @TraceID, 43, 9, @on
29 exec sp trace setevent @TraceID, 43, 2, @on
30 exec sp trace setevent @TraceID, 43, 66, @on
31 exec sp trace setevent @TraceID, 43, 3, @on
32 exec sp trace setevent @TraceID, 43, 4, @on
33 exec sp trace setevent @TraceID, 43, 5, @on
34 exec sp_trace_setevent @TraceID, 43, 6, @on
```



Now let's see that in Extended Events



Of note

- Use the New Session option, not New Session Wizard
- Use the event search box
- Script the session out and review



You can still

- Filter
- Save to a file & open the file later
- Create templates



Do I need sa?

Profiler/Trace	Extended Events 2008/2008R2	Extended Events 2012 +
ALTER TRACE	CONTROL SERVER	ALTER ANY EVENT SESSION



Start and stop trace at specific time

- Create Agent Jobs
 - OALTER EVENT SESSION [SessionName] ON SERVER
 STATE = START;
 - OALTER EVENT SESSION [SessionName] ON SERVER
 STATE = STOP;
- Schedule



That's great, but... what about my existing traces?



Find XE equivalents to trace events



Demo

Find XE equivalents to Trace Event Classes



Convert existing trace to XE session



Demo

Convert existing trace to XE session

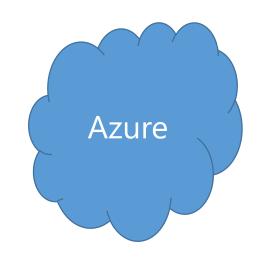


Extended Events is great because:

More thorough

Less resource intensive

Covers new features



Action Items

- Identify your top uses for Profiler/traces
- In existing traces, determine which XE events can replace the trace events
- Convert traces to XE sessions







Use my GitHub repo

- https://github.com/grrlgeek/extended-events
- Scripts for common XE sessions
- Please contribute!



Questions?





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