Auditing SQL Server

Jonathan Allen

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Working with SQL Server since 1999 / SQL 7.0

• 15+ years as full time DBA

• 5 years as Premier Field Engineer

Founder of Data South West user group

Auditing options

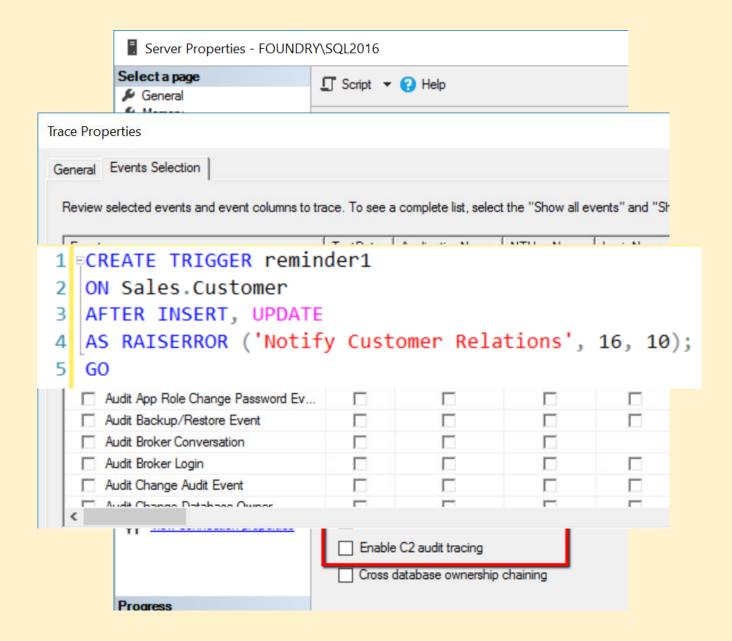
Login auditing

Common Criteria Compliance

C2 Audit

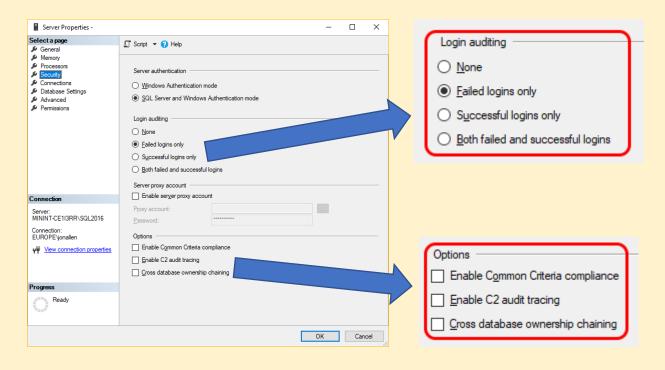
SQL Server Profiler Audit

Server / Database triggers

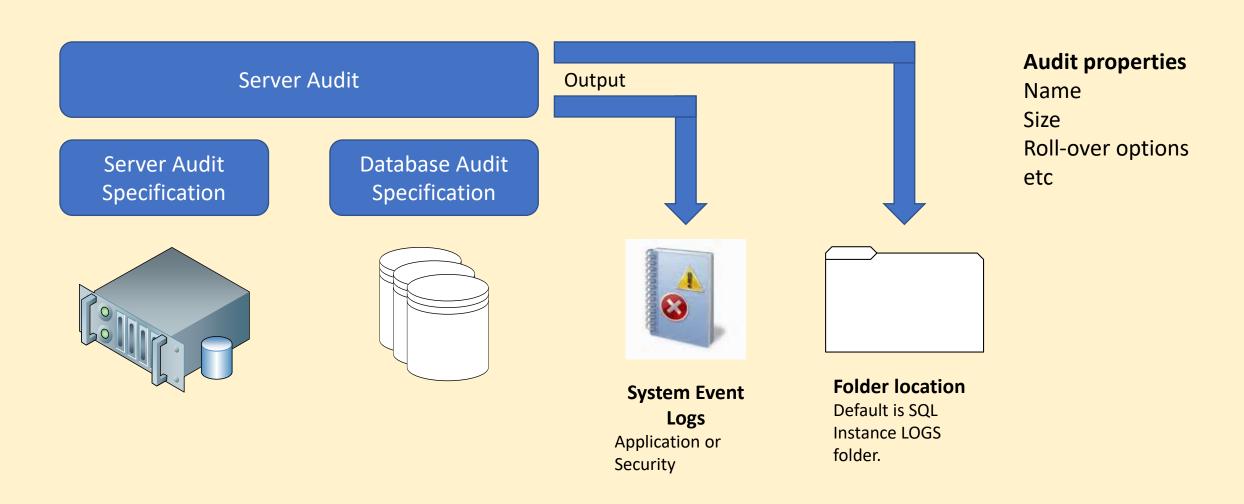


Auditing SQL Server

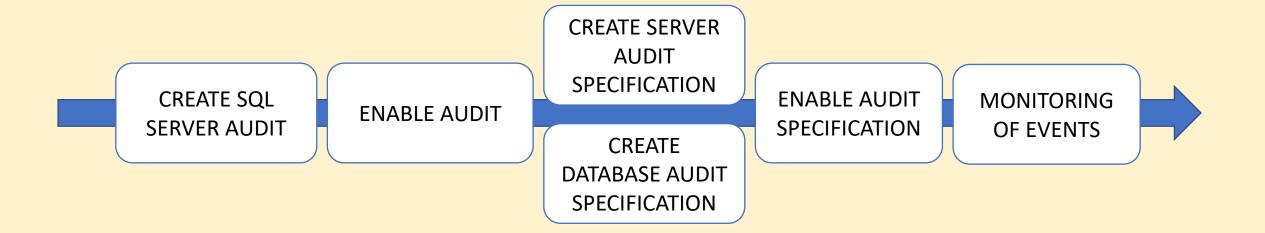
Default login auditing



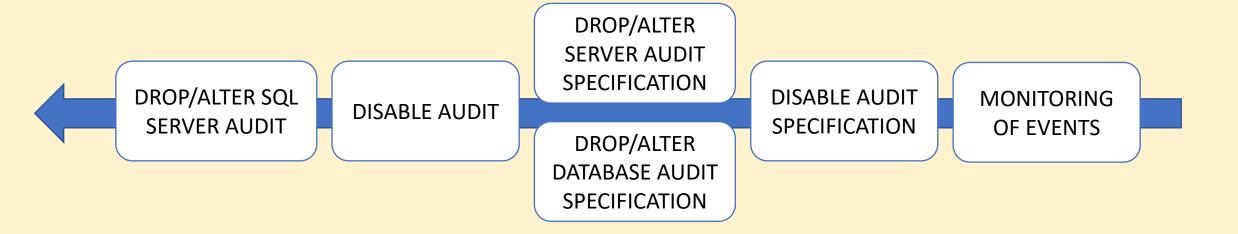
SQL Server – Server and Database Audits



SQL Server Audit – creation workflow



SQL Server Audit – Drop/Alter workflow



Demo

So why SQL Server Audit?

For

- GUI for setup and management
- Easy to recreate via TSQL
- Very configurable
- Great for security
- Little/Zero penalty for usage

Against

- Can collect a lot of information
- Can have a severe effect on your server availability if you choose Stop Service option
- Can get complex to be very specific on event filter

Sponsors















Thank you! We couldn't do it without you.



References and more information

Demo code

https://github.com/fatherjack/Sessions/tree/master/20221007%20DataRelayBristol

SQL Server Audit

https://learn.microsoft.com/en-us/sql/relational-databases/security/auditing/sql-server-audit-database-engine

Action Groups and Actions

https://learn.microsoft.com/en-us/sql/relational-databases/security/auditing/sql-server-audit-action-groups-and-actions

Audit Records

https://learn.microsoft.com/en-us/sql/relational-databases/security/auditing/sql-server-audit-records

EU General Data Protection Regulation (GDPR)

https://microsoft.sharepoint.com/sites/Infopedia_G01/Pages/Cards/TrustedCloud-GDPR.aspx

SQL Server and the GDPR

https://microsoft.sharepoint.com/sites/infopedia/pages/layouts/kcdoc.aspx?k=G01KC-1-26721

