Creating SQL Server Performance Baseline

By

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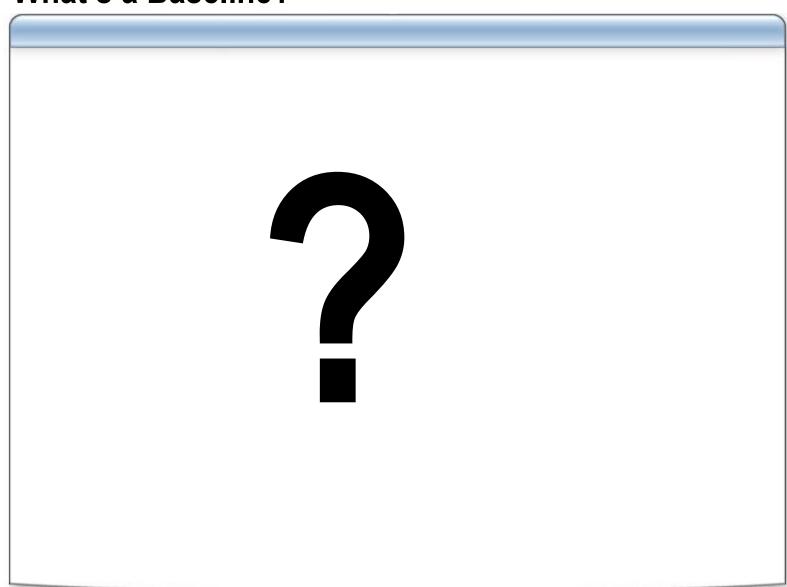
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Agenda

- What is a Baseline?
- Why do we even bother about creating a baseline, what's the use?
- What all need to be captured while creating a baseline?
- Different ways to capture a SQL Server Performance Baseline
- Best Practices around baseline creation

What's a Baseline?



Have you seen such advertisements?



Why do we need a SQL Server Performance Baseline?

- Proactive Management
- Health Check post a change
 - Server Pack
 - Hotfix
 - New Software\App Release
 - Added new Hardware
 - Capacity Planning
 - Storage Change Standard & Regular
- Just to check if something changed
- Justify your job



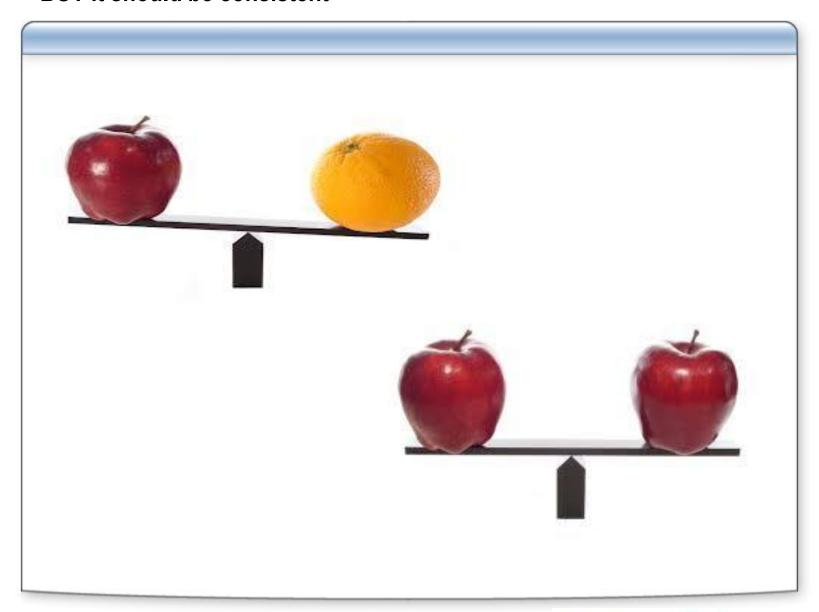
What all do we need to capture?

- Counters
 - Which counters?
- Anythings Else?

Things to consider

- In a perfect world, Baseline should have data for a full business cycle
 - Peak Time
 - Off Peak Time
 - Weekly\Monthly\Quaterly\Yearly Load
 - Reporting if That's is there.

BUT it should be consistent



Different Ways to create a Performance Baseline

- Performance Monitor aka Perfmon
- Perfmon with CSV\BIN Files
 - Import\ Analyse

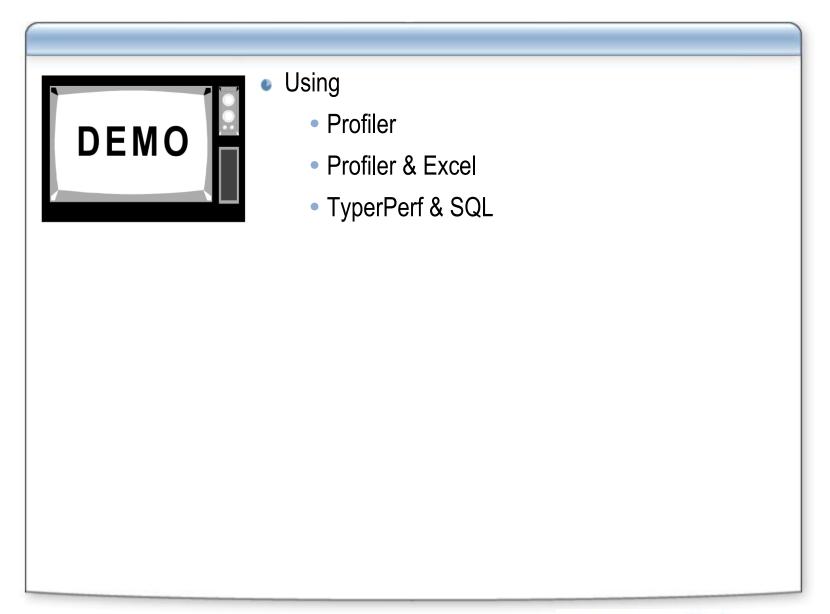
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SQL Server
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Excel

Third-Party Tools

- Dynamic Management Views (sys.dm_os_performance_counters)
- Powershell
- Relog
- TyperPerf
- Etc.

Let's see how to create a Performance baseline



Summary

- Not collecting enough data = bad choices
- Not collecting the *right* data = bad choices
- *Misinterpreting* the data = bad choices
- Collecting too much data = problem of overlooking details

Thank you [©]

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