Tips and Tricks for Maintenance Optimization

Maintenance is very important and critical but often underestimated aspect of our DBA's responsibilities





Sponsors



















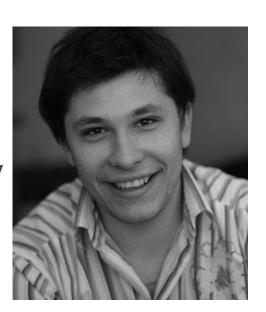


About me

- Senior SQL Server DBA at HP
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Agenda

- Why Maintenance?
- Index Rebuilds
- What about the statistics?
- Integrity Checks
- Backups
- Schedule



Why Maintenance?

- Performance issues =>Angry customers!
- Waits
- Indexes
- 911 Performance Tools
- Start with checking your Maintenance!



Index Rebuilds

- Rebuild all indexes online great!
- Transaction Log
- Size of the indexes
- Unused Indexes?
- SORT_IN_TEMPDB
- Wait priority in SQL 2014



Statistics

Did you forget something?

All statistics vs column statistics

Only modified once



Demo



Integrity Checks

- NO_INFOMSGS!
- Offload the checks
- PHYSICAL_ONLY
- Frequency
- Trace Flags
- TempDB effect



Demo



Backups

- Standard backups?
- Backup Compression
- Page and Row Compression
- Parameter Adjustment
- Useful Trace Flags



Demo



Schedule

Weekly, Monthly

Is your maintenance good enough?

What about the different workloads?



Key Takeaways

- Maintenance is very important!
- Could be crucial for the performance of your SQL Server
- Do not underestimate it!
- Customize it!



Useful Links

- Ola Hallengren's clever maintenance:
 - https://ola.hallengren.com/sql-server-index-andstatistics-maintenance.html
- MS Whitepaper about Online Indexing:
 - https://msdn.microsoft.com/en-US/library/cc966402.aspx
- Minimizing the impact of CHECKDB:
 - http://sqlperformance.com/2012/11/iosubsystem/minimize-impact-of-checkdb



Thank You!

Have you decided the best maintenance for

you yet? ©



Please give feedback to us

http://speakerscore.com/sqlsaturday376

Thank you!



Sponsors



















