



Infrastructure Training Lesson 8 Recap

Database Maintenance

Course agenda

1

Database integrity check, Index and Statistics maintenance

2

Creating archive database and tables

3

Archiving and deleting old messages logged by the robots

4

Deleting old unused indices from Elasticsearch

5

Backup database

DB integrity check, index and statistics maintenance



Check the links provided in the lesson. They provide access to Ola Hallengren's maintenance scripts



Run the following stored procedures (after you create them) in this order:
DatabaseIntegrityCheck, DatabaseBackup, IndexOptimize

What are Ola Hallengren's maintenance scripts?

Ola Hallengren's maintenance scripts are a widely used replacement for maintenance plans. His backup, integrity check, and index optimization stored procedures are powerful and flexible. The whole thing is open sourced with the MIT License, which means you can use them at work or even bundle them with paid products. (For example, kCura ships a modified version with Relativity.)

source: www.brentozar.com

Creating archive database and tables



Create tables with the same structure as Logs and *QueueItems*:

Create new database
UiPathArchive

This is a one-time only operation

```
select * into  
[UiPathArchive].[dbo].[ArchiveLogs]  
from [UiPah].[dbo].[Logs] where 1=2
```

```
select * into  
[UiPathArchive].[dbo].[ArchiveQueueItems]  
from [UiPah].[dbo].[QueueItems]  
where 1=2
```

Archive and purge Logs and QueueItems



Copy the data from Logs and QueueItems to the corresponding Archive tables before deleting it



Delete old data from QueueItems (only successfully processed)

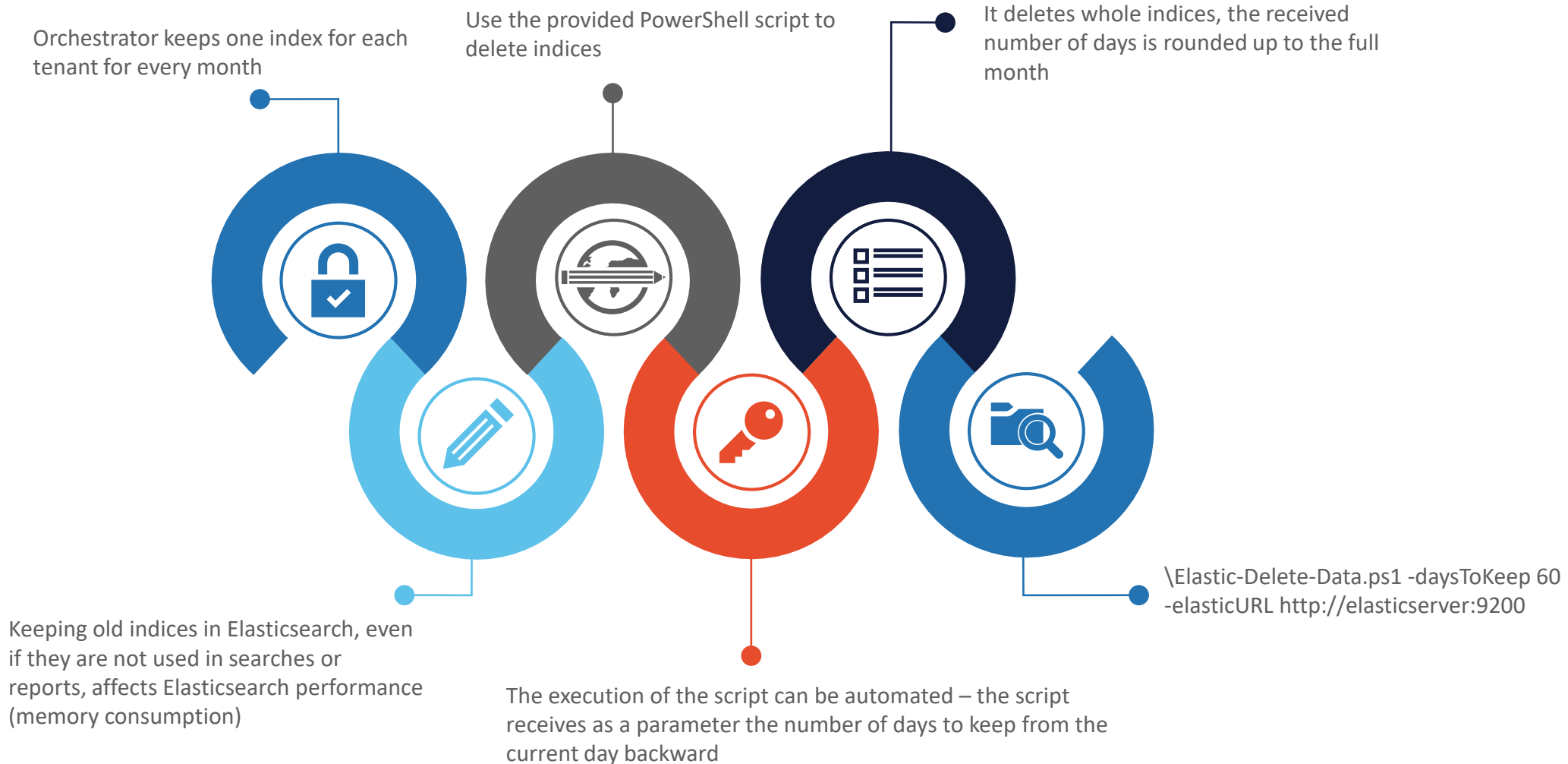


Delete old data from Logs

```
DELETE FROM [UiPath].[dbo].[QueueItems]
-- 0=new, 1=in progress, 2=failed, 3=success,
4=invalid, 5=retried
where status = 3
-- and TenantId = 1 -- default tenant
and ProcessingExceptionId is null
and DateDiff(day, CreationTime, GetDate()) > 60
```

```
DELETE FROM [UiPath].[dbo].[Logs]
where 1=1
-- and TenantId = 1 -- default tenant
and DateDiff(day, TimeStamp,
GetDate()) > 60
```

Deleting old unused indices from Elasticsearch



Backup the Database



Implement regular backups of the SQL Server database



Full backup weekly and incremental backup daily



The recommendation is to use the DatabaseBackup stored procedure that is created using the [awards-winning](#) script of Ola Hallengren

Thank you!
