To get there, together

REALDOLMEN
a Gfi Group company

THOMAS VANDEZANDE

# Introducing Red Gate SQL Monitor

**Bring your SQL monitoring to a higher level**

**REALDOLMEN**
a Gfi Group company

# WHOAMI

- Thomas Vandezande
  - Oud-Heverlee
  - Senior SQL DBA
    – Realdolmen

- Contact:
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- Microsoft SQL Server
  - Security & performance

- Powershell

- Experience
  - Dataminds speaker
  - 9y SQL DBA

# POLL

**Wat beschrijft best uw huidige functie?**

# FAQ TO A DBA

- Why was my SQL instance slow yesterday?
- Which query is using all resources?
- Why is my query running slow?
- Do I need additional indexes?
- What is the overall load of my SQL database?
- Is a job taking longer than normal?
- When will my disk be full?
- Who has sysadmin rights?
- Who is running this heavy query?
- What is causing all these deadlocks?
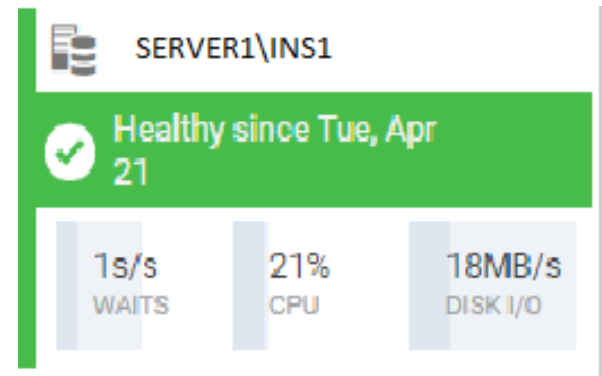- Is my Alwayson cluster still synchronizing?
- ….

# SOLUTIONS

- Custom queries on SQL server
  - ▶ Requires a lot of manual effort
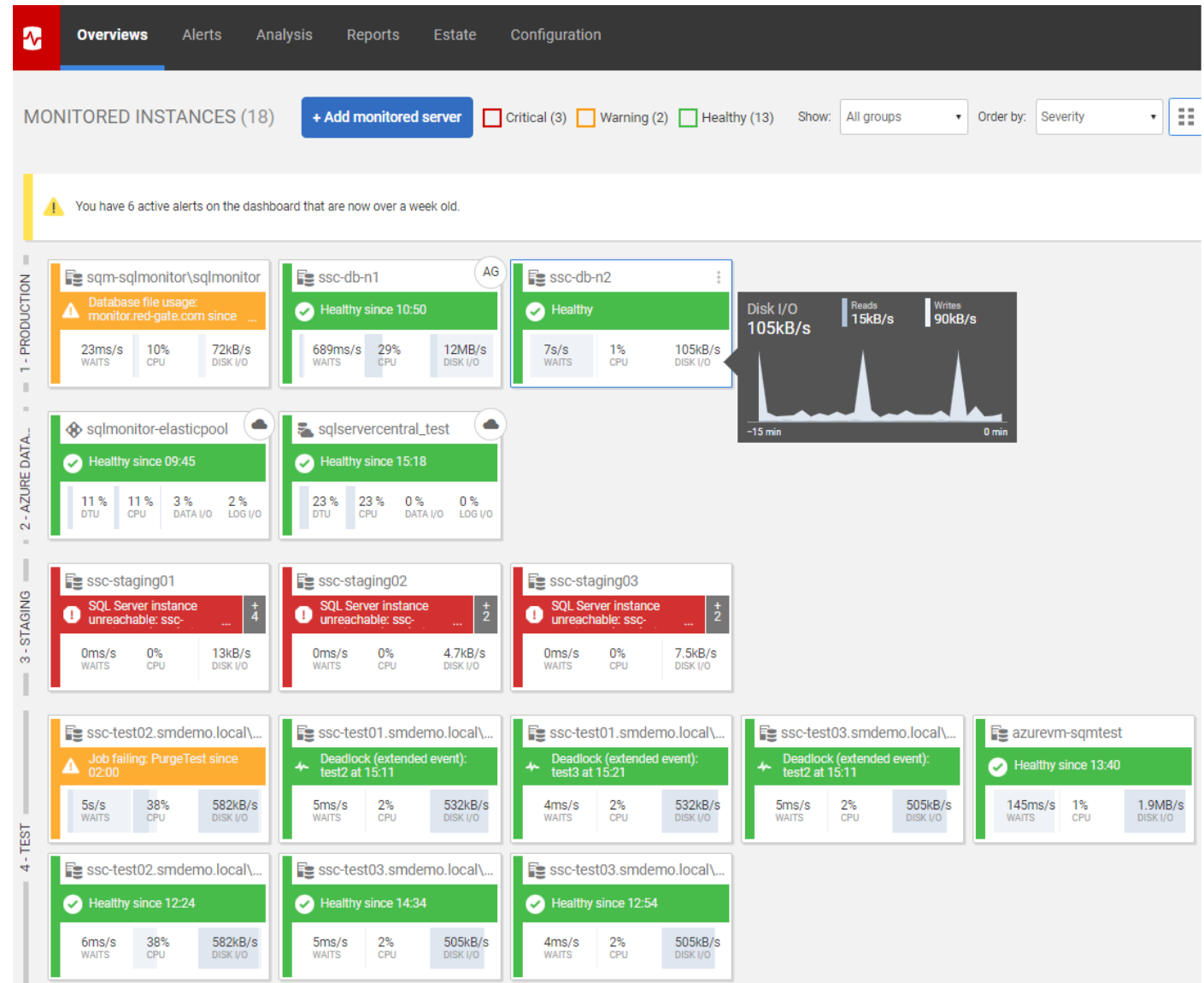
- Custom scripting in POSH or other language

**Windows PowerShell**

```
PS C:\> Get-MyCustomSQLCheckScript -SQLInstance SERVER1\INS1
```

- Red Gate SQL Monitor

SQL Monitor

SERVER1\INS1

✓ Healthy since Tue, Apr 21

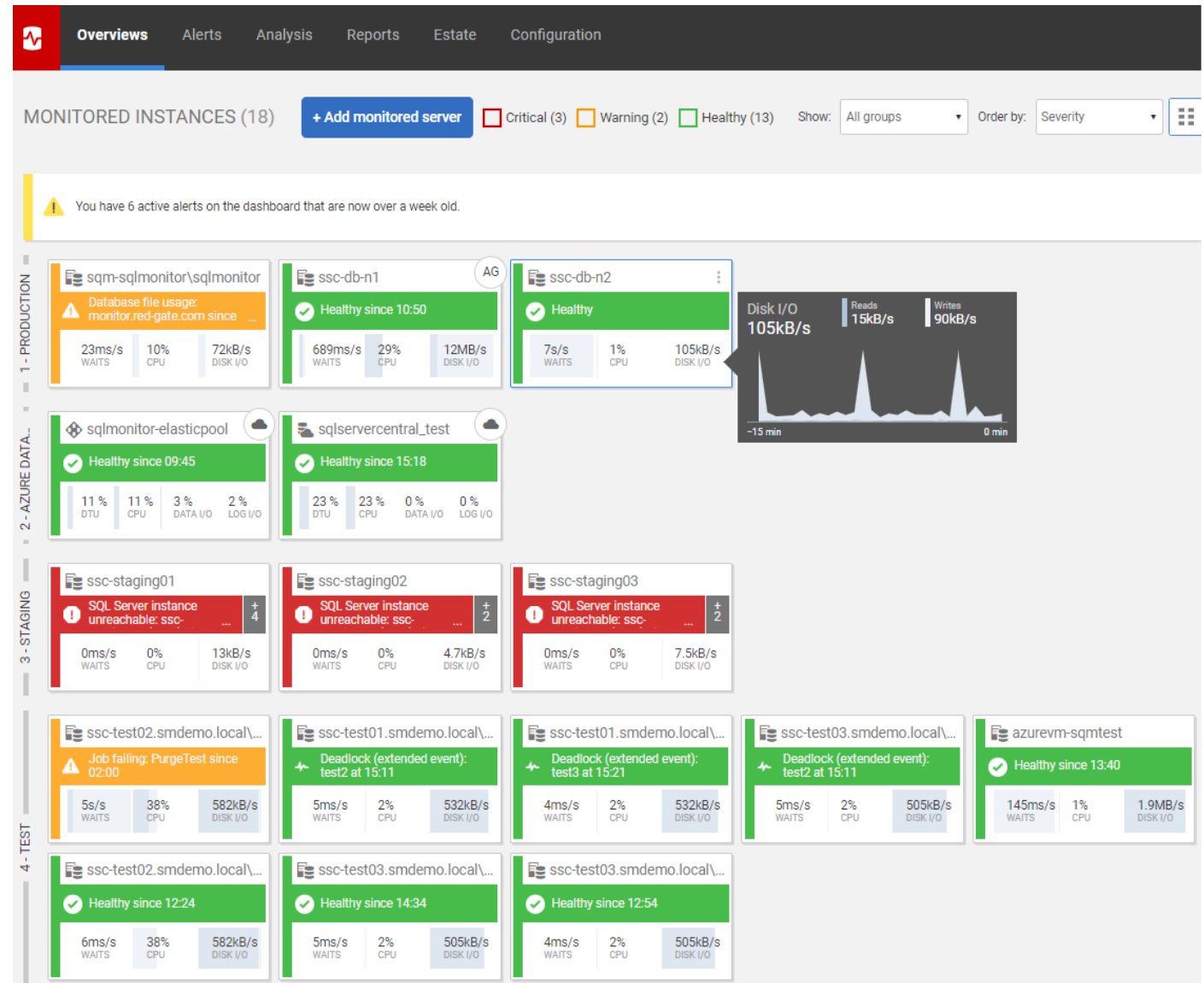| 1s/s | 21% | 18MB/s |
|------|-----|--------|
| WAITS | CPU | DISK I/O |

# IMPORTANT FEATURES

- Monitors cloud & on-prem

- SQL Performance history

- Multi-tenant

- Webhooks capabilities
  - Allows single pane of glass

# IMPORTANT FEATURES

- Powershell CMDlets

- Agentless

- Continuous improvement

- Easy custom alerts

# RESULTS AT CURRENT CUSTOMERS

- 30% application performance gain
  - ▶ Top consumer query fixed for media website

- Avoided website downtime
  - ▶ SQL Monitor out-performed SCOM

- Fragmented index detection
  - ▶ IDX rebuild happened before data import
  - ▶ Now, idx rebuild before and after data import

- Extreme query behavior
  - ▶ 2TB query running 24hrs

# Customer feedback

- "For that amount of benefits this license cost is a no-brainer."

- "SQL Monitor had the functionality I needed and presented the information in the clearest and simplest form."

- "SQL Monitor lets us quickly know what the exact problem is so we can jump on it and fix it before the business even notices."

Wat zijn momenteel uw belangrijkste operationele problemen waarvoor u hoopt dat Redgate SQL Monitor een oplossing zou kunnen zijn?
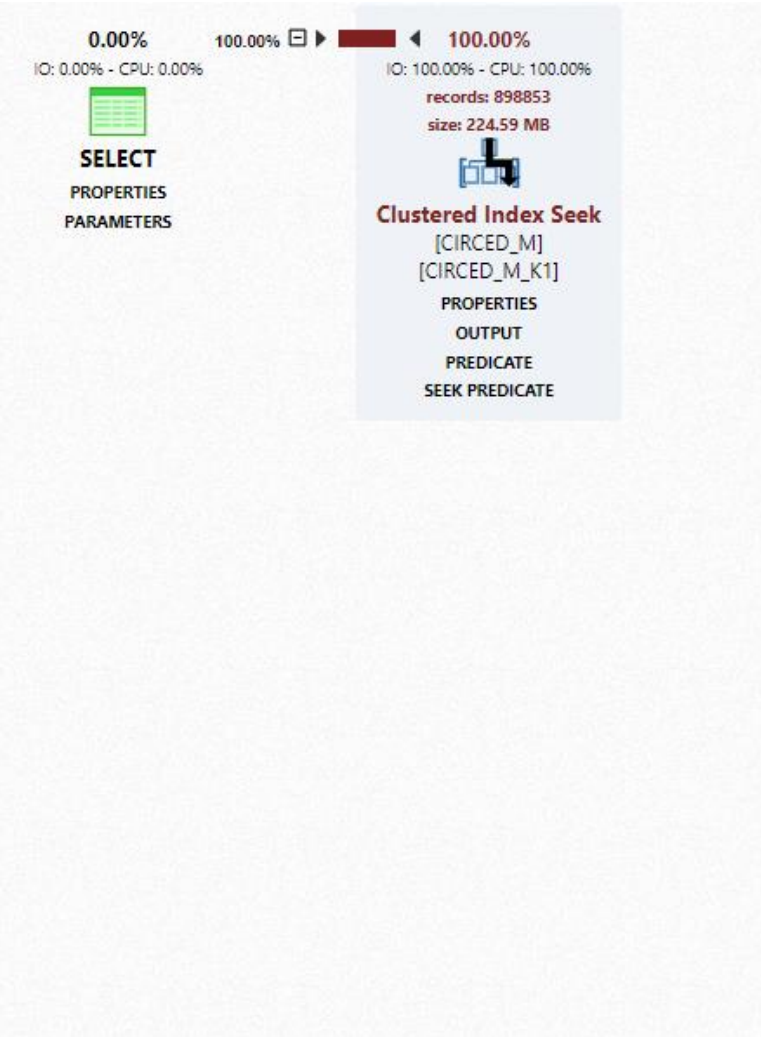
# Appendix – Not covered in demo



**Expensive operations**

1. 100.00% - Clustered Index Seek
   IO: 100.00% CPU: 100.00%

**Data-heavy operations**

1. records: 898853 - size: 224.59 MB
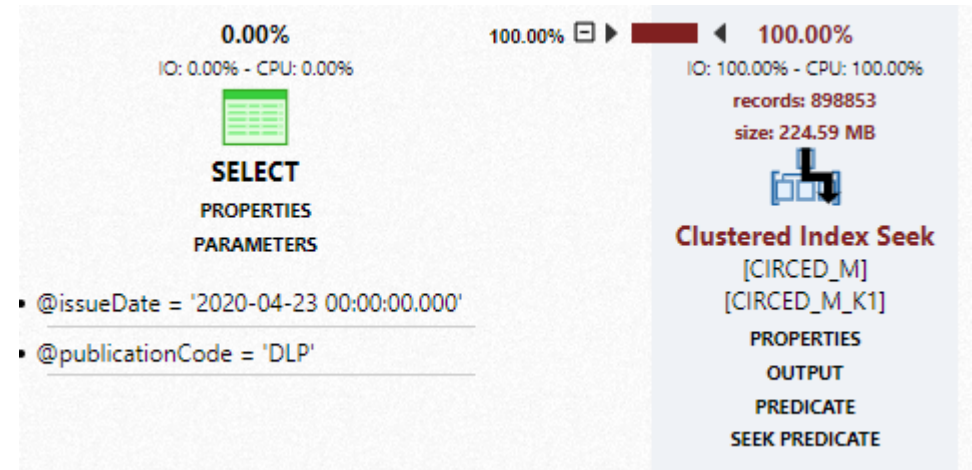   - Clustered Index Seek

**Warnings**

1. Missing indexes could improve cost by 63%

0.00%
IO: 0.00% - CPU: 0.00%

100.00%
IO: 100.00% - CPU: 100.00%
records: 898853
size: 224.59 MB

**SELECT**
PROPERTIES
PARAMETERS

**Clustered Index Seek**
[CIRCED_M]
[CIRCED_M_K1]
PROPERTIES
OUTPUT
PREDICATE
SEEK PREDICATE

0.00%
IO: 0.00% - CPU: 0.00%

100.00%
IO: 100.00% - CPU: 100.00%
records: 898853
size: 224.59 MB

**SELECT**
PROPERTIES
PARAMETERS

@issueDate = '2020-04-23 00:00:00.000'

@publicationCode = 'DLP'

**Clustered Index Seek**
[CIRCED_M]
[CIRCED_M_K1]
PROPERTIES
OUTPUT
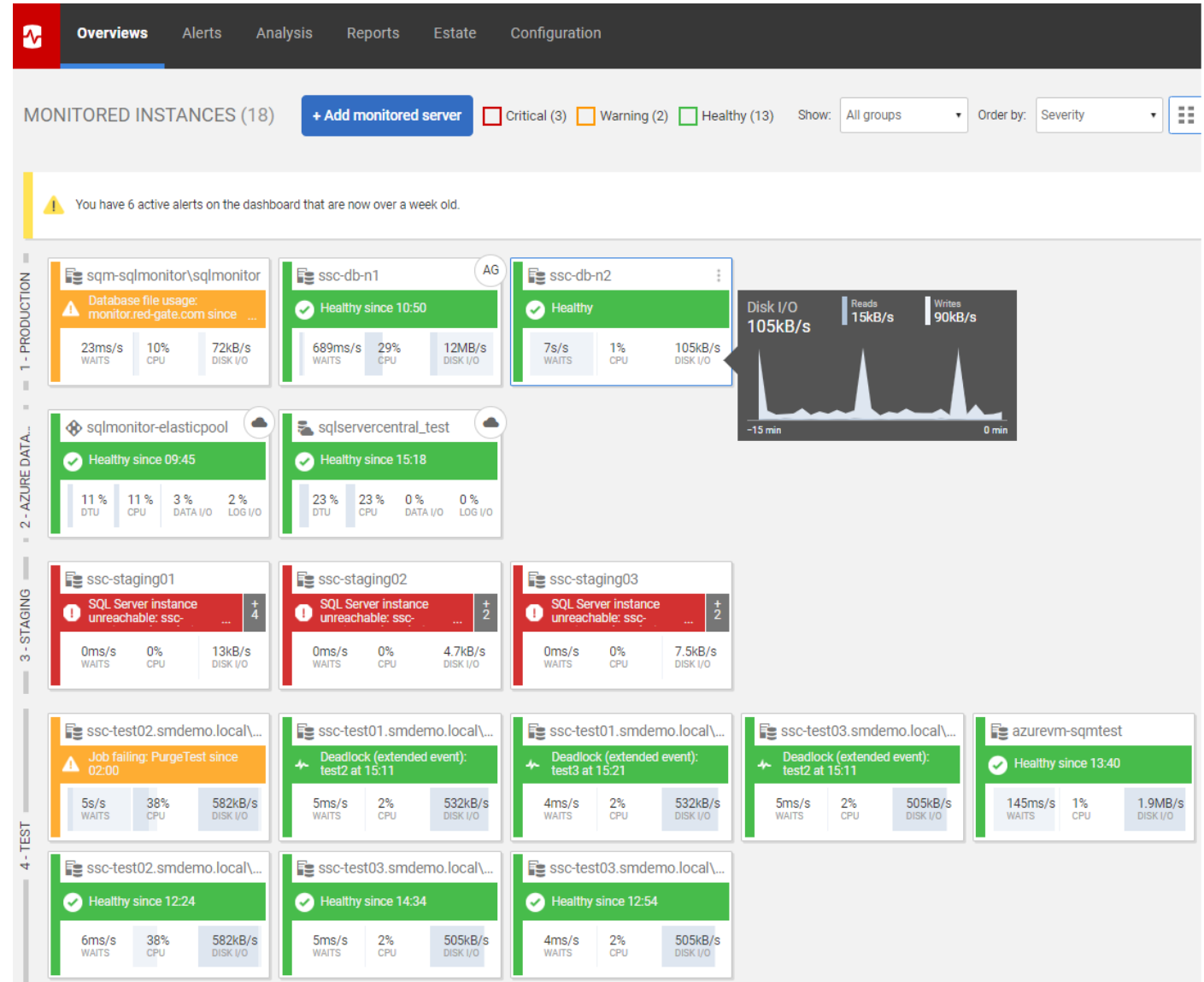PREDICATE
SEEK PREDICATE

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- ….

# LICENSING

- ## License model per server
  - ▶ 1 license
    - – 1 server
    - – Or 5 Azure SQL Databases
    - – Or 1 cluster node
    - – Or 1 virtual machine

- ## Attractive pricing
  - ▶ ~656€ / year / license

# WHAT CAN WE DO FOR U?

- License reselling

- Consultancy
  - Setup & configuration
  - Training
  - Analyse results

- POC
  - 2 days
  - Installation, configuration & first analysis
  - 1 month trial license
  - Fixed price 2000€

# POLL – ARE YOU INTERESTED IN ANOTHER OF OUR SQL SOLUTIONS

- POC Red Gate SQL Monitor
- SQL health check
- SQL roadmap
- SQL security assessment
- SQL cloud migration

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