

# ZABBIX

INFORMIX AGENT

MONITORING TOOL

# ZABBIX OPEN SOURCE

## - What is monitoring?

- Monitoring consists of observing, monitoring, taking data and analyzing the results in order to provide feedback that allows us to effectively solve problems and anticipate them.

## - What is Zabbix?

- Zabbix is a free Open Source software designed as monitoring tool. It allows us to constantly control the elements of our network.

## - Advantatges

- Zabbix ability to handle large amounts of data.
- Compatible with Linux, CentOS, Debian, Oracle Linux, Red Hat and Ubuntu Servers. Monitors through the use of agents or the SMNP protocol ongoing monitoring.
- It is a proven, configurable, flexible and scalable solution.

## ARQUITECTURA

- Client (agent) - Server
- Three Layers: Database, server and presentation
- Centralized: A single server monitors the infrastructure.

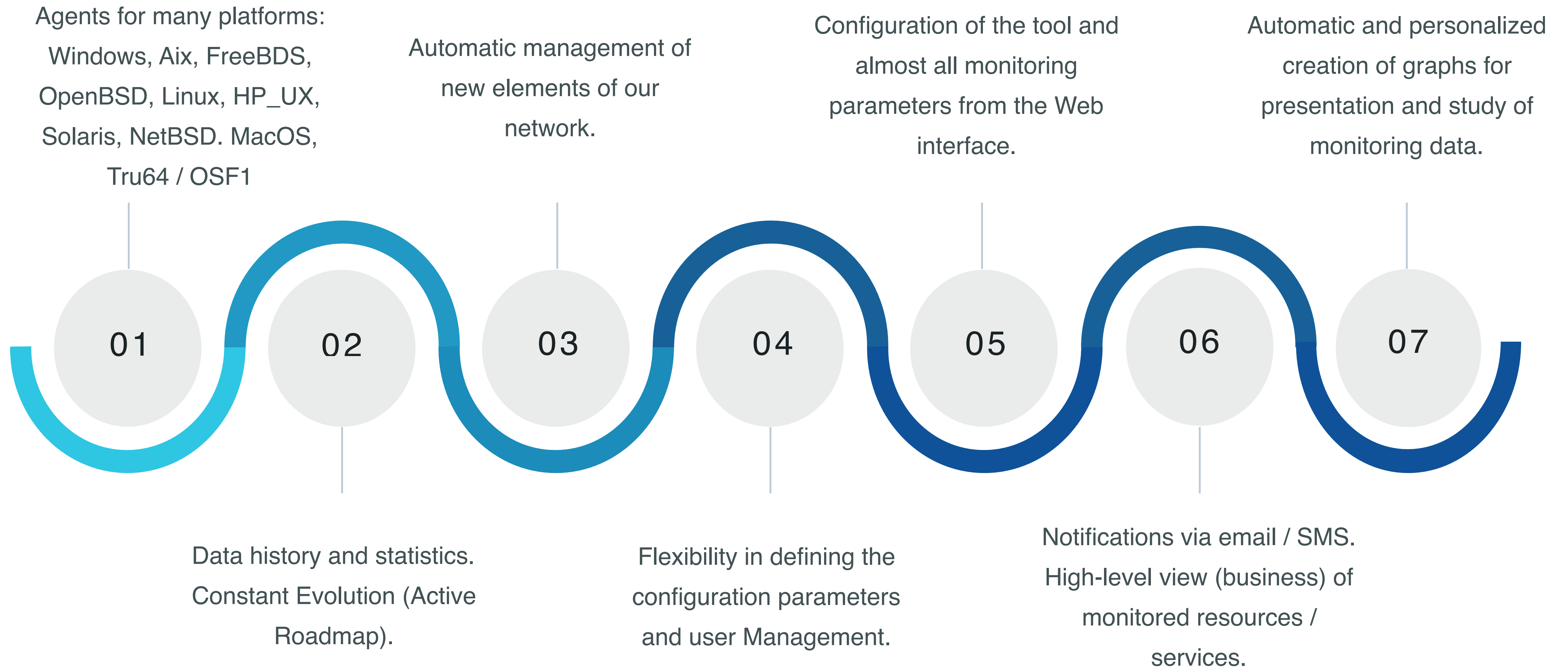
## REAL TIME INFORMIX MONITORING

- Monitoring consists in measuring the performance of a given database in real time in order to determine problems and other factors that may cause problems in the future.
- Informix is at the heart of many IT organizations. When its performance deteriorates, this directly affects the performance of applications and entire businesses. In these cases, DBAs need a solution that provides insight into the real causes of performance bottlenecks to resolve problems.
- Zabbix is an enterprise-level platform to monitor large-scale IT environments that provides advanced problem detection and intelligent alerting and remediation.
- Deister has developed a specific Agent (plug-in) for Zabbix for monitoring IBM-Informix products. This Agent, named ZAB-IFX is fully integrated with the standard Zabbix tool and is capable of monitoring more than one hundred key indicators that could affect Informix performance.

# FEATURES

## WHAT DOES DEISTER BRING TO THE TOOL?

Deister software contributes to the Zabbix ecosystem, through the server agent for managing IBM Informix products (117 KPI) . This tool delivers:



# FUNCTIONALITIES

## ELEMENTS

- Installation of the software in a machine that acts as a server and that is in charge of monitoring all the detected network elements.
- Communication between servers and clients is done through ports TCP / 10050 and TCP / 10051
- All the information is stored in a relational database (MySQL, PostgreSQL)



- Zabbix Proxy component, intermediate module (optional) that collects data from network elements, stores them in a buffer and sends them to the server
- The functionality of the Proxy component is to centralize remote sites and load distribution.
- The agents are in charge of collecting the information of the network element in which it has been installed and sending it to the server.

## LINK COMMUNITY & TRADING

Community: <http://zabbix.org/>  
Trading: <https://www.zabbix.com>

# AGENT ZAB IFX



# INDICATORS

The ZAB-IFX agent performs a smart, highly automated metric collection are the following parameters:  
(deister software has developed more than 120 indicators)

- | GENERAL                       |
|-------------------------------|
| - Assert Files                |
| - Max. # extents per tblspart |
| - Max. # pages per tblspart   |
| - Max. # rows per tblspart    |
| - Server blocked              |
| - Server status               |
| - Startup time                |
| - Uptime                      |
| - Version                     |

- | ARCHIVE                         |
|---------------------------------|
| - # Logical Logs without backup |
| - Incremental allowed           |
| - Ontape L0 TS                  |
| - Ontape L1 TS                  |
| - Ontape L2 TS                  |

- | CLUSTER                    |
|----------------------------|
| - # RSS Backlog            |
| - # RSS Connections active |
| - # RSS Servers            |
| - HDR status               |

- | BUFFER PERFORMANCE       |                                |
|--------------------------|--------------------------------|
| - 2Kb Buffer Page Reads  | - 16Kb Buffer Reads            |
| - 8Kb Buffer Page Reads  | - 2Kb Buffer Writes            |
| - 16Kb Buffer Page Reads | - 8Kb Buffer Writes            |
| - 2Kb Overtaken Buffers  | - 16Kb Buffer Writes           |
| - 8Kb Overtaken Buffers  | - 2Kb % Buffers Write Cache    |
| - 16Kb Overtaken Buffers | - 8Kb % Buffers Write Cache    |
| - 2Kb Disk Writes        | - 8Kb % Buffers Write Cache    |
| - 8Kb Disk Writes        | - 2Kb Buffer Turnover          |
| - 16Kb Disk Writes       | - 8Kb Buffer Turnover          |
| - 2Kb Disk Reads         | - 16Kb Buffer Turnover         |
| - 8Kb Disk Reads         | - Buffer Waits                 |
| - 16Kb Disk Reads        | - Buffer Waits Ratio           |
| - 2Kb Buffer Waits       | - 2Kb Number of buffers        |
| - 8Kb Buffer Waits       | - 8Kb Number of buffers        |
| - 16Kb Buffer Waits      | - 16Kb Number of buffers       |
| - 2Kb Buffer Reads       | - Read Ahead Utilization Ratio |
| - 8Kb Buffer Reads       |                                |

# INDICATORS

## PROFILE

- # Chunk Writes
- # Deadlocks
- # Foreground Writes
- # Isam Calls
- # Latches Waits
- # Lock Requests
- # Lock timeout
- # Lock Waits
- # Logical Buffered reads
- # Logical log records
- # Logical Logs used
- # Logical log writes
- # LRU writes
- # Memory Sorts
- # Page reads
- # Sequential Scans
- # Sessions
- # Threads
- # Threads Ready
- # Transactions commits
- # Transactions rollbacks
- # VPs
- % Dictionary cache used
- % Distribution cache used
- % Logical Logs without backup
- % Procedures cache used
- Buffer flushes
- Checkpoint in Progress
- Checkpoints
- Checkpoints Waits
- CPU System time
- CPU User time
- Memory '- Buffers segment
- Memory '- Messages segment
- Memory '- Resident segment
- Memory '- Virtual segment
- Physical Log Pages used
- Physical Log Size
- Time since last Checkpoint

## DBSPACES

- % Space free
- Chunks inconsistent Chunks offline
- Pages readed
- Pages readed per second
- Pages written
- Pages written per second
- Size
- Size free
- time for reads
- time for writes

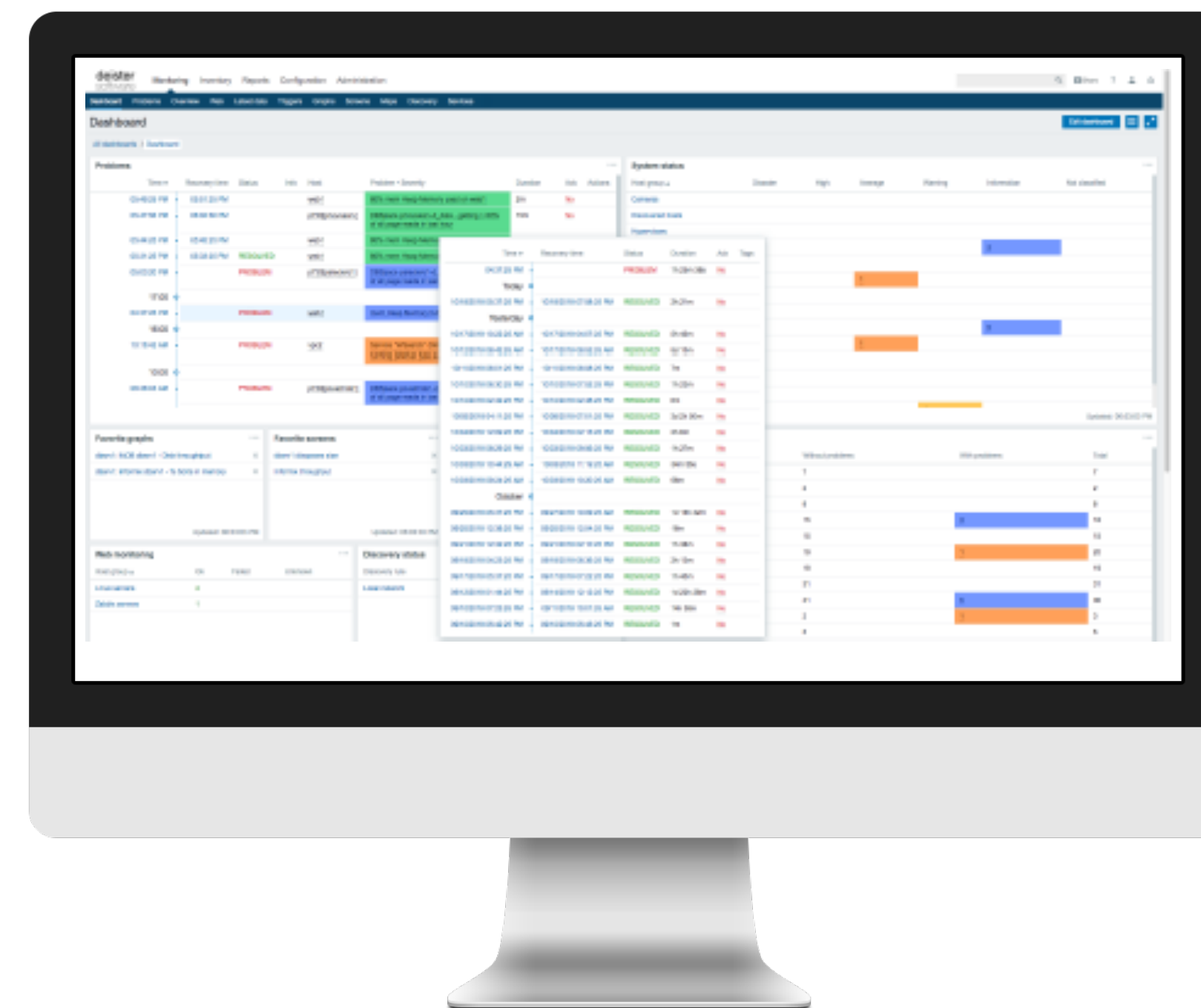
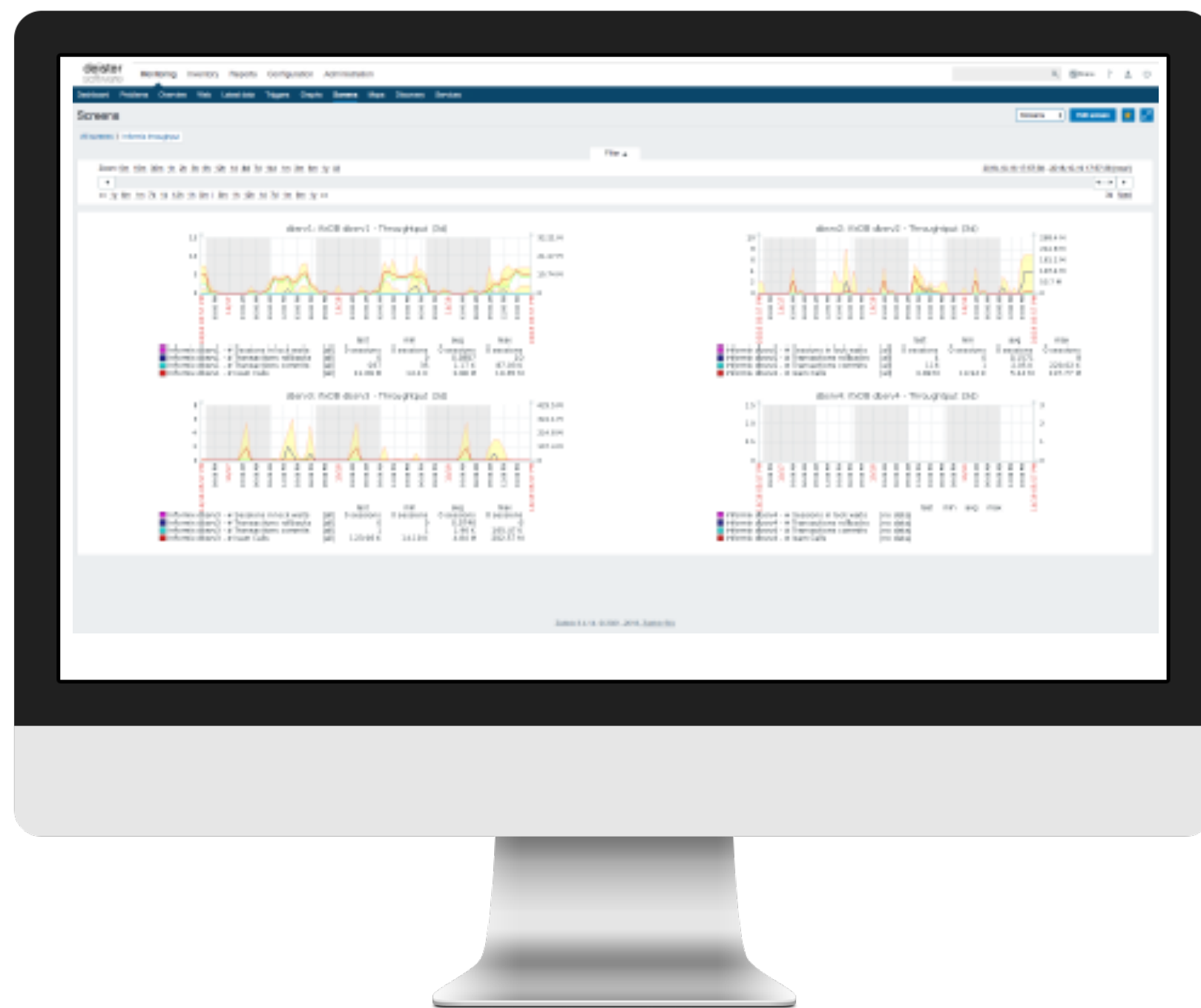
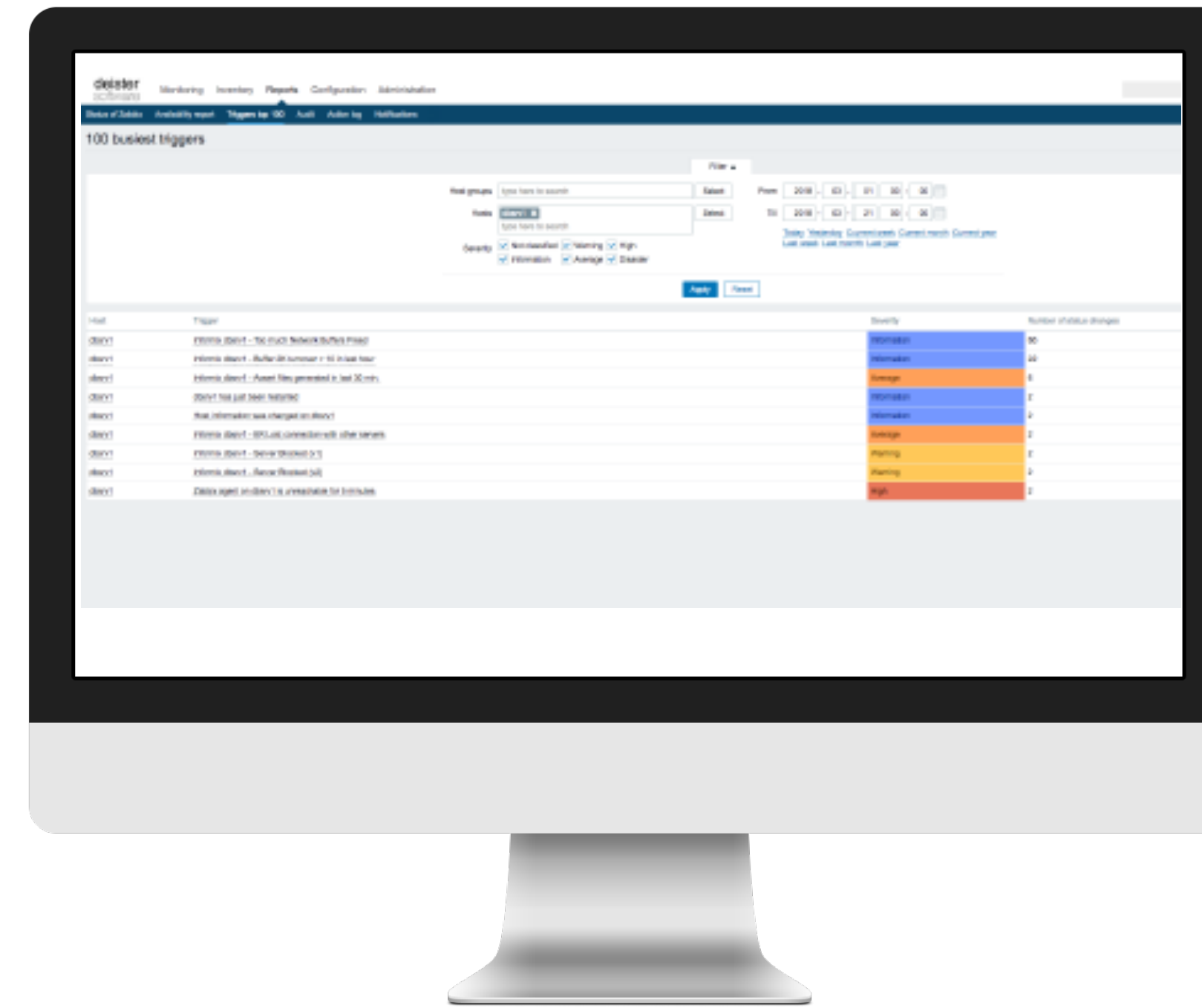
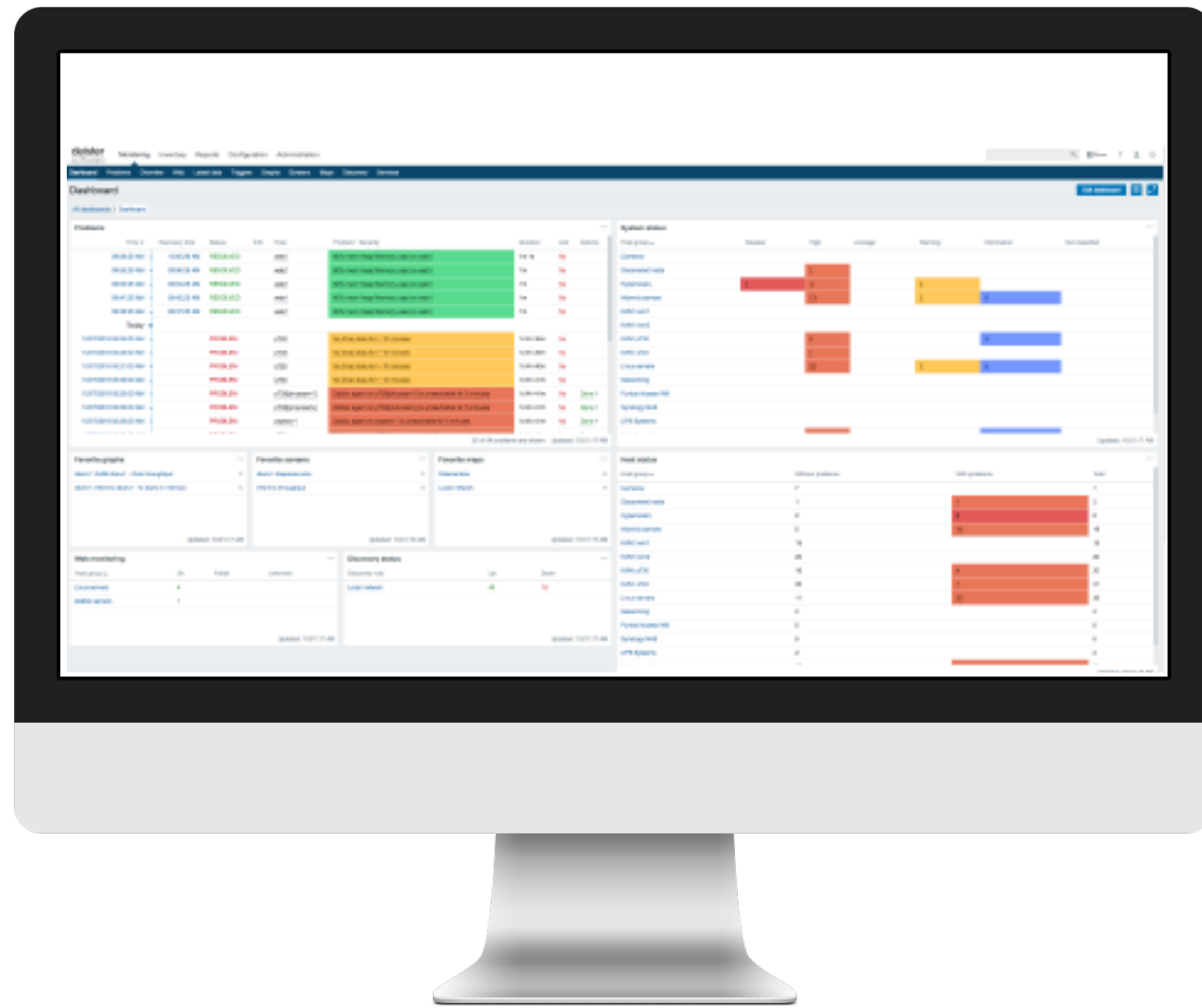
## I/O

- # Disk reads
- # Disk Sorts
- # Disk writes
- # Logical buffered writes
- # Log page writes
- # Network free buffers exceed
- # Network reads
- # Network writes
- # Page writes
- # Read ahead index+data pages
- # Read ahead pages used
- Max sort disk space

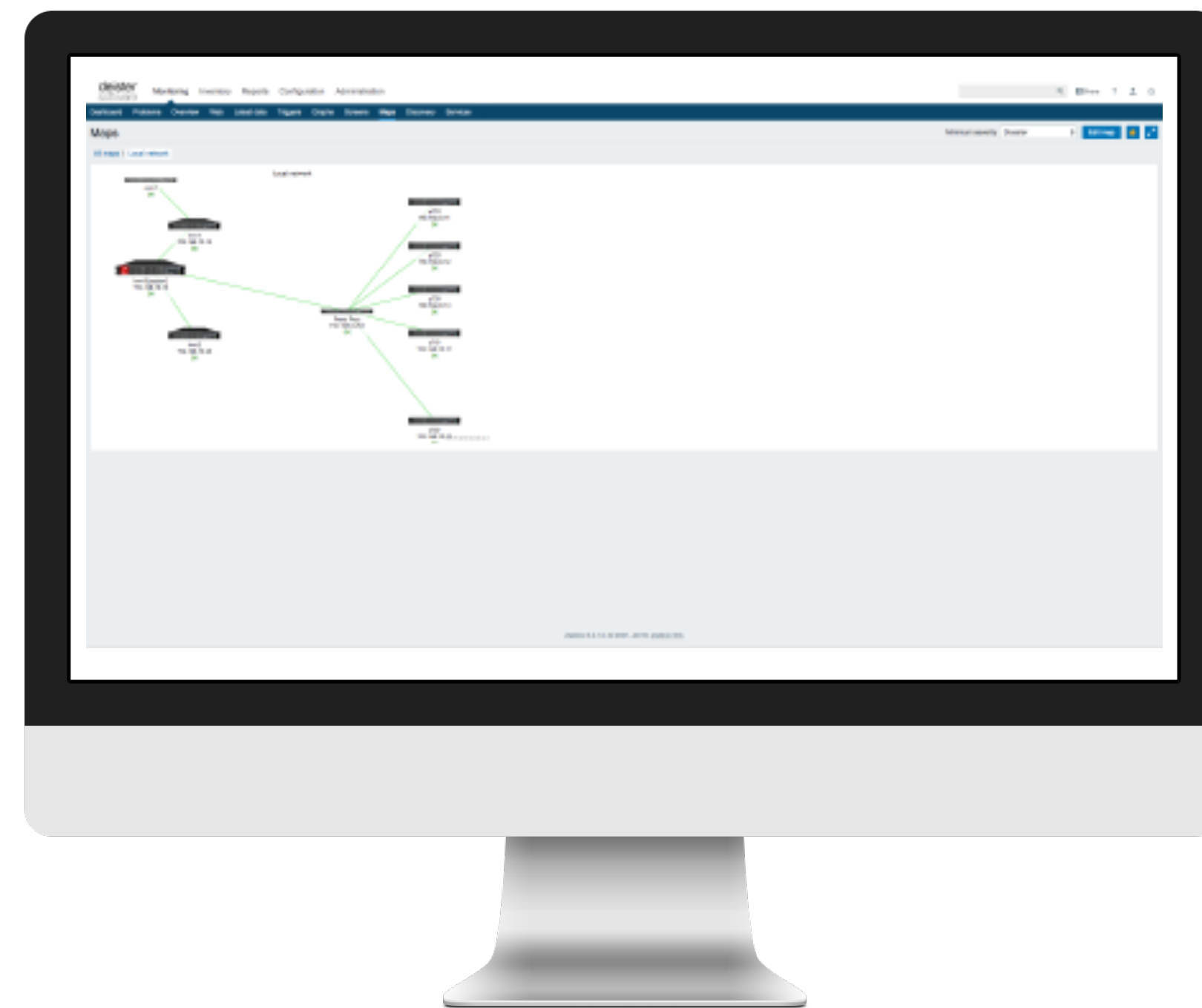
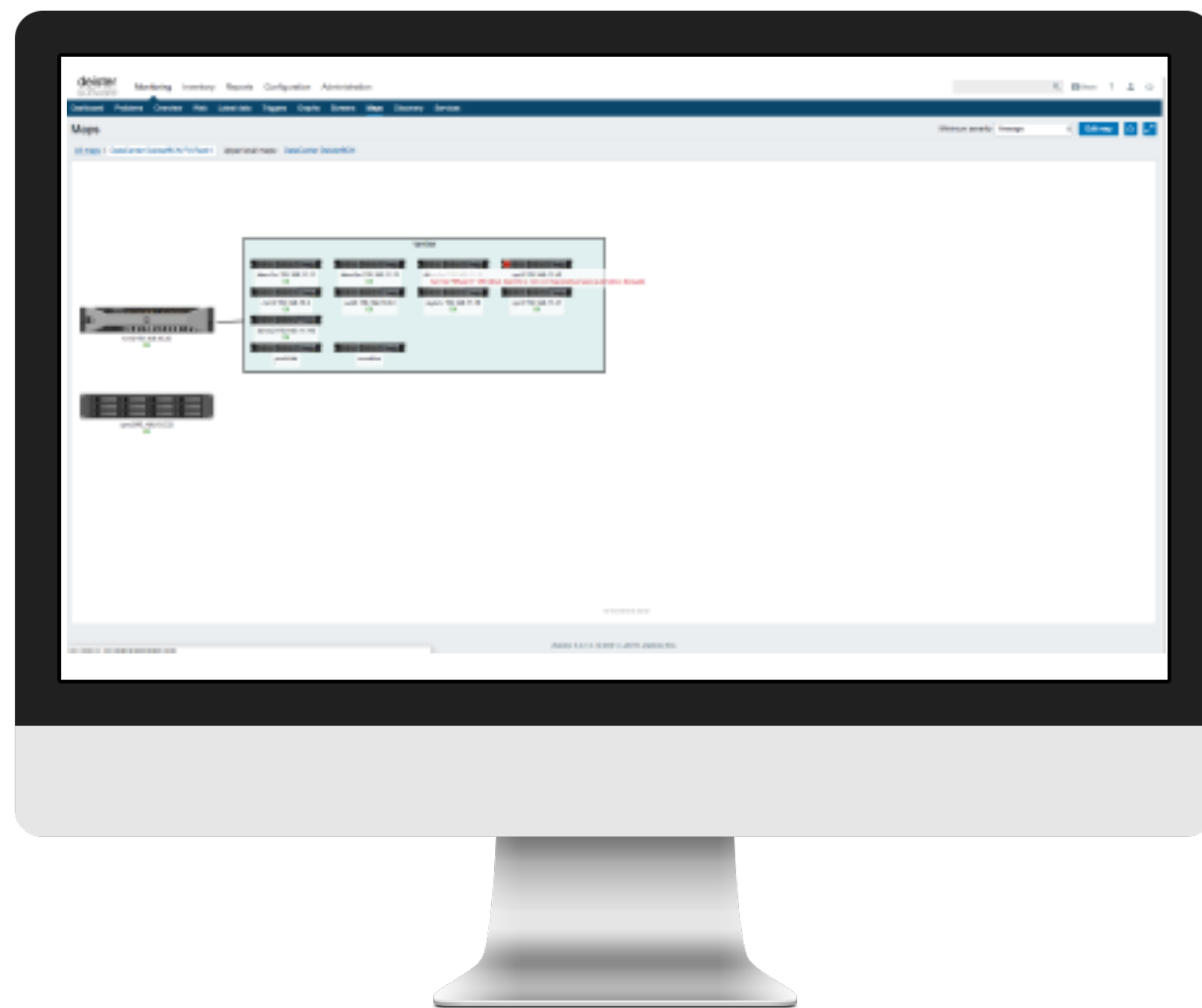
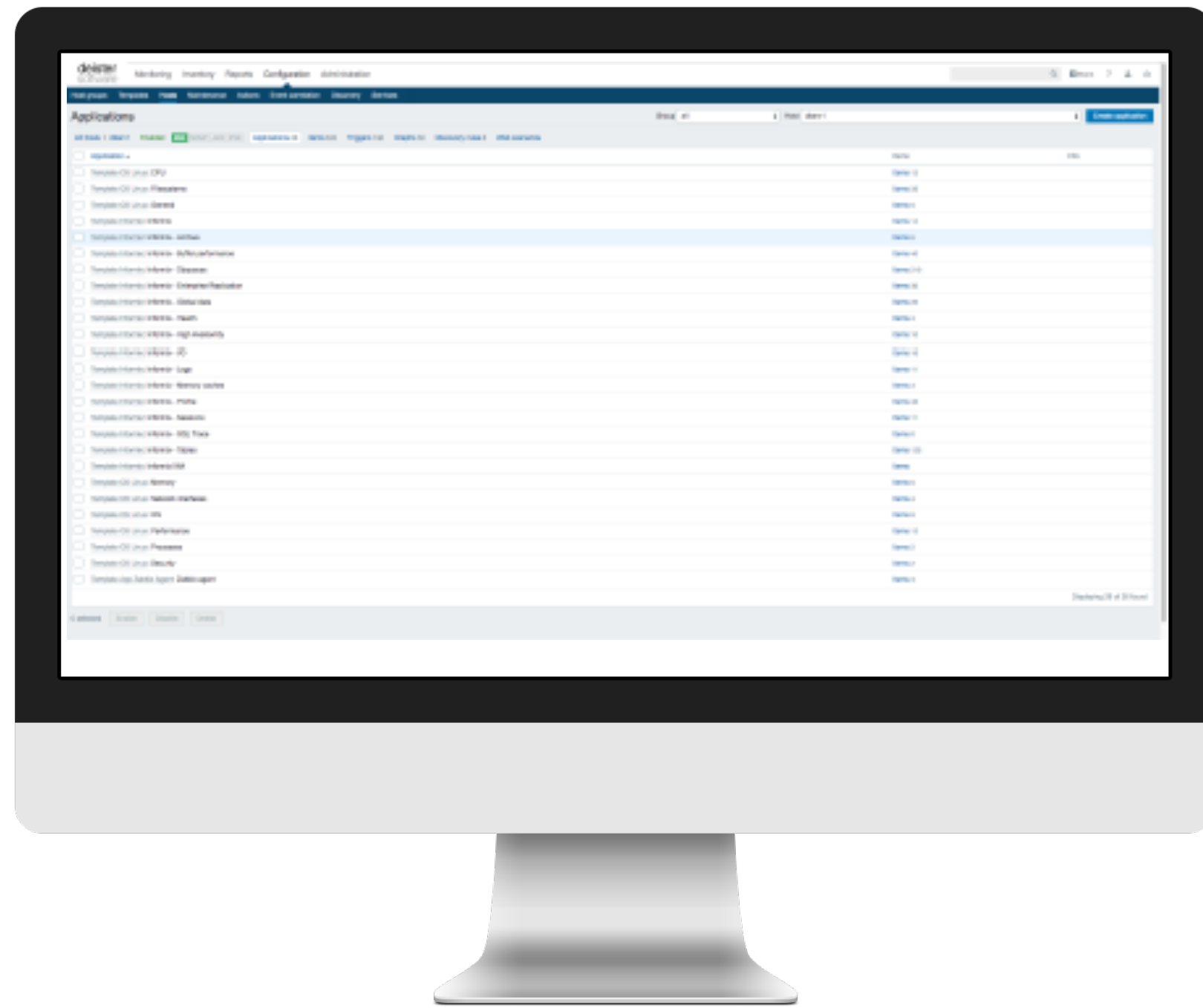
## SESSIONS

- # Active user threads, running on CPU
- # PDQ Calls
- # Sessions in lock waits
- # Sessions in wait
- # Sessions top
- Long running SQL
- Long transaction pending
- Sessions defunct

# MONITORING SCREENS







deister software

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