

# Open Source Monitoring with OMD and Nagios

No gaps. No limits. No operator.



## ConSol services

- Customized, scalable open source monitoring solutions based on OMD/Nagios for heterogeneous IT environments of 50 to 50,000 hosts
- Concept, migration/implementation, customizing, and operation from a single source
- Partial or complete project responsibility

## How you benefit

- Open source solution with no associated procurement or licensing fees that includes a broad spectrum of free interfaces and system modules
- Easily expandable and scalable, both in terms of the physical system and the effort required from employees
- Extensive, specialized know-how in Nagios and broad IT expertise for every project environment: field-tested and always cutting-edge
- Access to existing 24/7 structures, if necessary

## Links to additional information

- <https://labs.consol.de>

Monitoring extensive, heterogeneous IT environments across different physical locations from a single centralized system requires a high-performance monitoring solution and comprehensive knowledge of its setup and administration.

## OMD: Monitoring at the highest standard

As a core installation, Open Monitoring Distribution (OMD) meets all the requirements for long-term, centralized monitoring of extensive environments. The 'out of the box' package is **scalable** up to a volume of several tens of thousands of hosts.

As part of the development team, ConSol monitoring specialists exploit the full potential of OMD in the context of projects and rapidly make the necessary adjustments. In the process, they draw from a comprehensive open source pool of complementary Nagios plug-ins, creating a **homogeneous solution for monitoring all IT systems**: from operating systems and web server infrastructure to SAP systems and databases (Oracle, DB2, Microsoft SQL Server).

The free system modules developed by ConSol, such as the configuration generator **coshsh** and the web interface **Thruk**, allow for **convenient operation of the monitoring system – for the most part, no operator is required**.

Users are informed of disruptions and downtime via e-mail, text message, or connection to a trouble ticket system. Availability and SLA reports are generated automatically and sent to systems managers in PDF format at defined intervals.



## Detailed overview of ConSol Open Source Monitoring **Functional, convenient, and reliable.**

The dynamics and heterogeneity of modern IT environments present special challenges, and monitoring them requires significant resources. ConSol specialists ensure that the central monitoring of your IT systems is on solid footing. For this purpose, they use the company's powerful open source standard modules for OMD and Nagios. This relieves the burden on your IT budget and your administrators.

### Comprehensive monitoring – developed by ConSol



#### **OMD – One for everything: Fully automated tests for all standard enterprise interfaces**

OMD is our preferred core system for continuous, consistent monitoring, even across different locations and security zones; it has proven itself time and again. The standardized monitoring installation contains a pre-configured bundle including the Nagios, Shinken, and Icinga cores, as well as the most useful add-ons. A site concept facilitates the parallel operation of multiple full-fledged installations on a single server. The Nagios expansion **Mod-Gearman** ensures the distributed execution of checks and event handlers, which relieves the load on the Nagios servers and prevents performance bottlenecks.



#### **Manufacturer-independent database monitoring**

With the **Nagios plug-ins** for Oracle, MySQL, DB2, and Microsoft SQL Server, heterogeneous database environments can be easily integrated into the monitoring solution and centrally monitored across platforms.



#### **No operator necessary, thanks to configuration generator coshsh**

When new servers or applications are added to a CMDB or even to an Excel spreadsheet, the **coshsh** configuration generator cyclically reads them out via an interface, delivering them in the form of standardized configuration files in the monitoring system. This means that inventory data from the IT environment can be managed from a single location.



#### **Web GUI Thruk: Custom-tailored user interface**

The **Thruk** web interface visualizes all Nagios instances on a unique central interface. The various departments can independently adapt their views, business processes, and dashboards to their needs with the click of a mouse. Many views can be downloaded via an export in Excel.



#### **End-to-end application monitoring with Sakuli**

The **Sakuli** framework developed by ConSol includes everything you need for the automated testing of graphical user interfaces. The tool simulates actions in a variety of different programs in the application layer, evaluates their content, and records execution times.

## References

Numerous customers are already benefiting from ConSol's monitoring expertise, to great success. Here are a few examples:

#### **Andreas Schachtner, UNIX System Manager, IT Operation and Support at M-net, a telecommunications provider**

*"The graphical representation of the measured values provides us with a huge amount of support when it comes to detecting anomalies and proactively correcting performance bottlenecks. ConSol provides us with IT expertise, consulting services, and support – all from a single source. And the company is based very close to our location."*

Project information: In partnership with ConSol, M-net achieved a higher level of transparency in terms of the availability and performance of its IT systems and has secured them over the long term using coordinated monitoring.

#### **Helmut Konradt, Head of IT at Kassenärztliche Vereinigung Niedersachsen (KVN)**

*"We can now monitor the entire server environment and offer better service to our members, since we can react to problems with the application server proactively. We detect the problem even before users are able to report it to us, and we can fix it quickly. This saves time for the on-call team and offers members a fast solution. We are pleased to have the support of a Nagios expert such as ConSol, who is able to enhance the benefits of open source monitoring through in-house solutions."*

Project information: KVN monitors nearly all of its web applications with Nagios – and thanks to the integration of Jolokia, it is even able to monitor Java-based web applications.