

Monitoring virtual IT-environments with op5 Monitor

This application note gives an overview of the benefits by using op5 monitor to monitor virtual infrastructure in order to increase agility and guarantee high availability.

Overview of benefits

- Service driven monitoring
- Multi level monitoring - the whole virtual environment in one easy to understand web based interface.
- Seamless integration between physical and virtual infrastructure monitoring
- Flexibility and scalability

Introduction

Today's IT departments have to struggle with demands on high availability to support the business and at the same time consolidate and decrease costs. To succeed you need to be able to effectively balance the demands of maximized return, mitigate risk, improve performance and increase agility. Virtualization is a fast growing trend with a lot of pro's helping an IT department to meet the demands from the business. Virtualization also increases the need of control since potential problems may have much more serious effects with several virtual servers on each physical and a more complex dependency structure. Whether you have 1, 10, 100 or 1000 servers, op5 Monitor gives you control and deliver savings, ease of use, scalability and the possibility to be agile and proactive.

The new generation IT control

With op5 Monitor an IT department can not only monitor physical servers, switches, routers, iptraffic, applications, measure service quality etc, it can also monitor the entire virtual infrastructure, from the physical hardware to the services and applications running on the virtual servers. All presented in an easy to understand web based interface.

Multi level monitoring

op5 Monitor monitors all levels of relevance to guarantee high IT service quality

- Physical environment
- Physical hardware
- Host OS and file system
- Storage backend
- Virtual servers
- Applications
- Services
- Relationships and dependencies
- And the total resource utilization for a bird's eye view.



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Get in control

[op5 Monitor](#) enables you to fast and easily establish a baseline of control that helps you determine the standard level of resource utilization for a physical or virtual workload. Details to track typically include CPU, memory, disk, and network performance. op5 Monitor do not only give this on every level, but also gives you a picture of the total physical and virtual resource utilization.

Root-cause analysis and troubleshooting

Traditionally IT staff have to spend a lot of time identifying where a problem is located before they can actually start troubleshooting. op5 Monitor is an active monitoring tool that helps identifying the source of the problem and as such provides strong clues about resolving them.

Mapping relationships and dependencies

While virtual machines have their own operating systems, resource utilization is often tied to other activities on the same host server. op5 Monitor is able to identify VM's and relate them to the physical computers on which they are running. It is also possible to group services to visualize dependencies and relationships so when planning downtime or problems occur it is easy to see what service are affected. It also enables the possibility to effectively track service level agreements.

Proactive IT-management

op5 Monitor enables the IT staff to become more agile and proactive, generating alerts via the control interface, email or SMS whenever resource utilization exceeds certain thresholds.

High quality IT services

Make sure that your IT department can deliver high quality IT services to the business. Monitor your virtual physical and virtual infrastructure with op5 Monitor.

Built on open source

op5 Monitor is a powerful monitoring tool that utilizes a set of standard technologies such as SNMP, OS clients and vendor specific data to extract and combine a user friendly central web based monitoring solution, suitable for monitoring virtual IT environments.

op5 always delivers the systems with full access to the source code so that our customers can modify the systems to their specific needs.

Want to know more?

Please contact us to [schedule a session](#) with an op5 engineer to walk you through a live demonstration of op5 systems in action.

For further information please contact us on +46-8-23 02 25 or info@op5.com, www.op5.com

VM Server 10 (VM Server 10)			
Host	Status	Services	Actions
devel	UP	10 OK 1 WARNING	
ldap-sth	UP	20 OK 1 WARNING	
linux-server1	UP	13 OK 1 CRITICAL	
mail.op5.se	UP	6 OK	
ns.op5.se	UP	10 OK 1 CRITICAL	
rt	UP	13 OK	
sth-web1	UP	14 OK 1 CRITICAL	
vmware-sth	UP	8 OK	
win2003-server1	UP	11 OK 1 WARNING	

Picture showing a set of virtual Servers and their respective service status, for more detailed screen shoots, follow link>>