



FEATURES

- Monitoring for VMWARE virtual machines
- Supports VMWARE ESX and GSX Servers

MONITORS

- **Host System**
 - State
 - Resource usage
- **Virtual Machine**
 - State
 - Resource usage
 - Configuration

BENEFITS

- Increased visibility accelerates problem identification and resolution
- Proactive monitoring preempts reduced business productivity
- Proactively notification in advance of SLA compliance breaches

NIMSOF DATASHEET

Nimsoft for VMWARE

Maximizing Performance for Virtualized Server Strategies

Introduction

Day-to-day businesses risk the threat of software failures, hardware failures, viruses, and more. In a world where business operates 24 x 7, ensuring business continuity and peak performance is critical for survival. To reduce business risk and increase efficiencies IT Executives are adopting VMWARE server virtualization strategies.

The Solution

The Nimsoft Monitoring Solutions (NMS), formerly known as NimBUS, for VMware solution provides the highest level of availability and performance for VMware environments. The solution ensures end-user satisfaction through centralized and proactive management, advanced problem notification, automated recovery actions, intelligent event correlation, and comprehensive service level reporting.

NMS for VMWARE ESX and GSX Servers utilizing VMWARE VirtualCenter — the NMS for VMWARE Probe monitors runtime environments on VMware ESX and GSX servers through VMware VirtualCenter. The following will be monitored on Host and Virtual Machines:

- CPU usage; total – all CPUs, per CPU, and delta between CPUs
- Disk usage; total, free, used
- Memory; percent used, swap activity
- Network; bytes in/out

NMS for VMWARE ESX/GSX utilizing NMS SNMP Probe — Utilizing the NMS SNMP Probe additional VMWARE server status data can be obtained through the VMWARE Service Console, this includes the health of the host machine and virtual machines running on the host. The following will be monitored with the NMS SNMP Probe:

- Host System State
- Host System Resource Usage
- Virtual Machine Configuration
- Virtual Machine State

All NMS information is correlated to business service dashboards and measured against pre-defined Service Level Agreements to warn you against SLA threatening conditions.

Part of the NMS Family

In addition to the NMS for VMWARE virtual servers, monitoring modules are available for the following additional server platforms; Windows, UNIX, Linux, AS400/iSeries and Novell Netware. Application monitoring solutions include MS Exchange, Lotus Notes, SAP R/3, WebSphere Application Server, and other widely deployed applications. Database solutions include; Oracle, DB/2, Sybase, Informix and MS SQL Server. Also included are solutions to enable full management of complex network infrastructures, i.e. routers, switches, firewalls, etc.



NMS VMWARE Probe Monitors

CPU usage (%) with multi-CPU support

- High (error) and Low (warning) alarms for total CPU usage
- High (error) alarms for individual CPU usage in multi-CPU systems
- CPU difference alarms (sent when the difference in CPU usage between different CPUs in multi-CPU systems breaches the threshold)

Disk

- Automatic disk discovery (local & Network)
- Disk Usage in MB or %
- Information retrieval on local and network disk
- Total disk space
- Free disk space
- Used (%) disk space

Memory

- Pagefile usage (%)
- Swapping/Paging activity page/s

Network

- Bytes In
- Bytes Out

NMS SNMP Probe Monitors

System State

- Number of CPUs on the host computer
- Amount of RAM installed on the host computer
- VMWARE Server is loaded or not

System Resource Usage

- Host memory used by the Service Console
- Host CPU resources being used by VMs
- Host memory used and not used by VMs

Virtual Machine (VM) Configuration

- The path to the VM configuration file
- Guest operating system running on the VM
- Memory the VM is configured to use
- Net, disk, CD, etc. adapters seen by the VM

Virtual Machine (VM) State

- VM power state: on or off
- Guest operating system: on or off
- CD-ROM drive: connected or disconnected

SNMP traps are sent

- When a VM is powered on or off
- When a VM loses heartbeat in guest operating system
- When a VM resumes heartbeat in guest operating system

About Nimsoft

Nimsoft is the fastest growing provider of next-generation performance and availability monitoring solutions for the complete physical, virtual, and cloud-based IT infrastructure. Nimsoft solutions redefine the standards for ease of use and speed of deployment—providing outstanding return on investment and unparalleled customer satisfaction. Over 800 customers in 36 countries rely on Nimsoft solutions to monitor their IT-based business applications and services, including cloud environments. These customers include mid-market and global organizations, such as Barclays Capital, Amway Corporation, Bay Area Rapid Transit, Ladbrokes, MTU Aero Engines, TriNet, and TRW Automotive, and hundreds of leading managed service providers, such as CDW Hosting Services, ENKI, Thomas Duryea, Easynet, and Rackspace Managed Hosting. For more information, visit www.nimsoft.com.

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