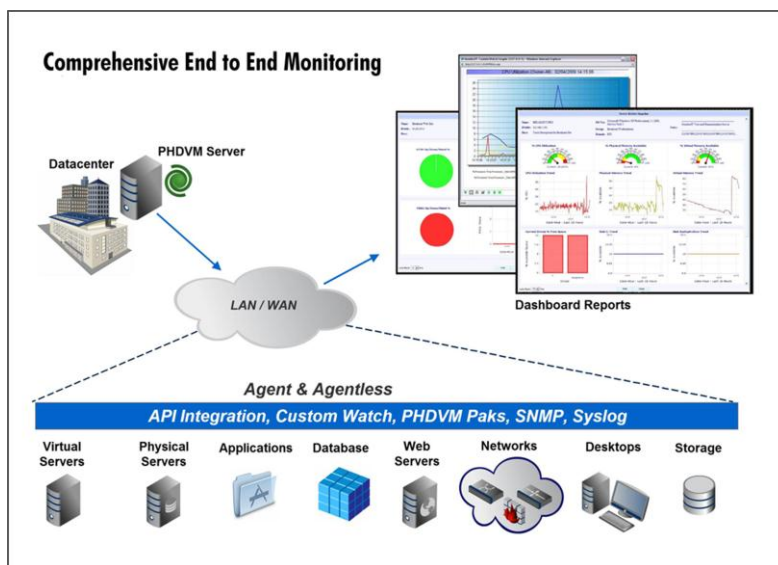


# PHD Virtual Monitor for VMware

## Complete End-to-End Monitoring for VMware vSphere

**PHD Virtual** leverages a unique combination of Intelligent Agent and Agent-less monitoring to give you complete visibility across your entire virtual IT infrastructure at all levels including virtual, physical and application. Unlike solutions that only use one method or the other, PHD Virtual Monitor eliminates blind spots providing a complete view so you can effectively ensure availability.

- vSphere client “Plug-in” provides a single dashboard to monitor both physical and virtual infrastructure through vCenter
- Hypervisor API integration captures key metric about the host and virtual machines without requiring agents
- “Intelligent Agents” for virtual machines provide the option of gathering deep system and application level diagnostic data from virtual machines
- Physical infrastructure monitoring is preconfigured



### Monitor the VMware vSphere host

PHD Virtual Monitor leverages the vSphere Hypervisor APIs to obtain and monitor critical metrics for the Host as well as the VMs, capturing detailed information about the entire VMware virtual infrastructure.

### Monitor Virtual Machines

PHD Virtual Monitor captures detailed metrics across your entire environment with a flexible combination of Agent and Agent-less monitoring techniques.

### Monitor Physical Infrastructure

PHD Virtual Monitor supports all Windows, UNIX and Linux systems, with out of the box monitoring of associated Windows applications. PHD Virtual Monitor also monitors the underlying network and storage infrastructure.

### BENEFITS

- Complete End to End View of Virtual & Physical Infrastructure
- Eliminate Blind Spots and False Positives
- Ensure Application Availability
- Manage and Meet SLA's
- Quickly Identify, Isolate and Remediate
- No Complex Coding or Scripting Required
- Deploy and Monitor in Minutes

### FEATURES

- vSphere Hypervisor Integration
- vCenter Management Integration
- Intelligent Agent Monitoring
- Agent-less Monitoring
- Pre-configured System Watches
- Automated System Discovery
- Automated Watch Deployment
- Simple Watch Customization
- Automated Remediation
- Pre-Configured Reports



### Comprehensive VMware Infrastructure Environment Monitoring

By directly interfacing with the vSphere APIs, and leveraging “Intelligent Agent” technology, PHD Virtual Monitor provides administrators a comprehensive view of their entire virtual IT infrastructure including virtual, physical and application resources. This enables administrators to manage not just the VMware servers but also the physical infrastructure including networks, physical servers, applications, desktops and storage all from within the vCenter console.

**Agentless Monitoring** – vSphere API integration provides detailed metrics for virtual hosts as well as complete inventory of the virtual environment along with CPU, memory, and disk utilization and availability for each virtual machine.

**Intelligent Agent Monitoring** – a unique, light-weight agent captures deep diagnostic metrics for VM’s, applications, systems and physical devices while consuming minimal resources, typically less than .1% of CPU and memory. The intelligent Agent is easy to deploy and can be configured in minutes with pre-defined system watch packs.

### Metrics Captured by PHD Virtual Monitor

Hypervisor	Intelligent Agent
<p><b>Host</b></p> <ul style="list-style-type: none"> <li>• Virtual Infrastructure Inventory</li> <li>• CPU Performance / CPU Load</li> <li>• Memory Consumption</li> <li>• Network Throughput</li> </ul> <p><b>Virtual Machines</b></p> <ul style="list-style-type: none"> <li>• CPU Load</li> <li>• Memory Consumption</li> <li>• Disk Throughput</li> <li>• Network Throughput</li> <li>• Migration</li> <li>• Resource Reallocation</li> </ul> <p><b>Storage Repository</b></p> <ul style="list-style-type: none"> <li>• Utilization</li> <li>• Snapshots, VMDK’s Orphaned Disks</li> <li>• Provisioned vs. Consumed Space</li> </ul>	<p><b>Virtual Machines</b></p> <p><b>Resources Availability &amp; Trends</b></p> <ul style="list-style-type: none"> <li>• CPU load</li> <li>• Memory &amp; Swap Utilization</li> <li>• Network Latency &amp; Bandwidth</li> <li>• Disk Utilization</li> <li>• Applications</li> </ul> <p><b>Application Availability</b></p> <ul style="list-style-type: none"> <li>• Processes and Services</li> <li>• Application Error Conditions</li> <li>• Event Logs</li> </ul> <p><b>Performance</b></p> <ul style="list-style-type: none"> <li>• CPU, Memory, Disk</li> <li>• Operating System</li> <li>• Applications</li> </ul> <p><b>Physical Servers</b></p> <p><b>Applications</b></p> <p><b>Networks</b></p> <p><b>Desktops</b></p>

### The PHD Virtual Difference

PHD Virtual Monitor for VMware vSphere is distinctly different from other monitoring solutions since it provides both Intelligent Agent and Agentless hypervisor monitoring. Other solutions, typically limited to only those metrics provided by the hypervisor, cannot provide granular data about the virtual machines and their applications or the physical infrastructure, creating blind spots in your virtual IT environment. With PHD Virtual Monitor you can eliminate blind spots and get a complete view across your entire environment all from directly within vCenter.