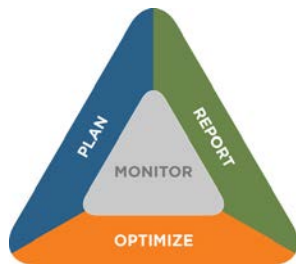


VKernel vOperations Suite™

VKernel vOperations Suite™ provides enterprise class performance and capacity planning made easy. The suite is based on an award-winning set of integrated products for predictive and real time analysis of system metrics and alerts from Microsoft Hyper-V, Red Hat Enterprise Virtualization (RHEV) and VMware vSphere that simplifies monitoring, planning, reporting and optimization of virtual environments. The vOperations Suite is comprised of a configurable management dashboard, the vScope Visualization Engine and four commercial products:



- vOPS™ Performance Analyzer
- vOPS™ Capacity Manager
- vOPS™ Optimizer
- vOPS™ Reporting & Chargeback

Leverage Investment in Microsoft Systems Center and VMware vCenter

The vOperations Suite enhances the functionality of Microsoft Systems Center and VMware vCenter. By applying the patent-pending Capacity Analytics Engine™ to gain deep insight into a virtual environment, VKernel's applications function as an analytic layer that further increases a virtualized data center's capabilities. With functionality that allows VM administrators to better manage their data center, VKernel extends and builds on the VM management consoles that a data center has already purchased.

How vOperations Suite Works

VKernel's vOperations Suite installs as a single application packaged as an agent-less virtual appliance that collects data from Systems Center and vCenter. vOPS then feeds the data into the Capacity Analytics Engine which analyzes data points from the entire virtual environment

Smart Business Views Automatically Organize an Environment

vOPS synchronizes with Systems Center and vCenter folders and enables further environment organization through Business Views. Smart Business Views automatically group VMs and hosts by commonalities such as naming convention. Business Views can also be created by users to group VMs by business unit or any other environment sub-division needed for reporting, securing access and operations.

Configurable Dashboard Tailors Views

vOPS provides a configurable dashboard that allows VM administrators to see at a glance only the data they require such as:

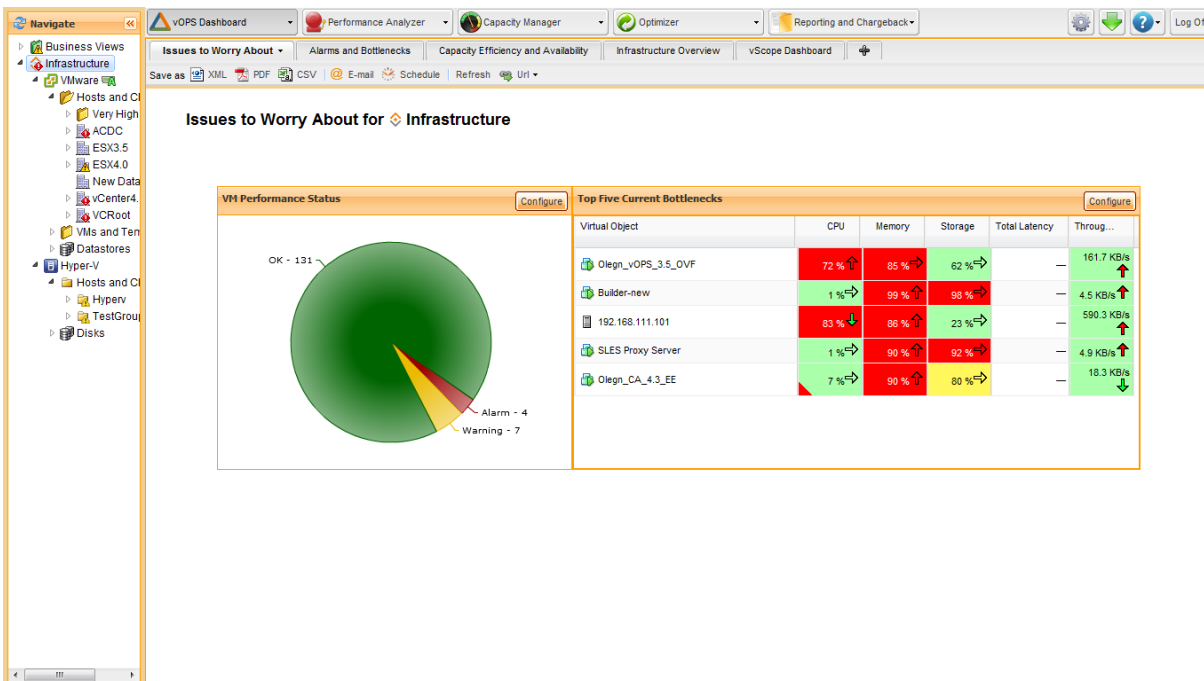
- Top 5 VM performance problems
- Graphs of various virtual machine metrics
- Virtual CPU, memory, and storage efficiency

These custom dashboards can be embedded in external systems with custom-generated URLs.

Seamless Integration into the Data Center

vOPS integrates into key data center systems:

- **Microsoft Systems Center** – vOPS collects systems metrics for Hyper-V VMs for analysis and sends alerts to SCVMM.



- **VMware vCenter** – vOPS accesses vCenter data via API to collect data for analysis and to automate recommendations. vOPS can also be launched as a vCenter plug-in and can federate multiple vCenters.
- **Microsoft Active Directory** – Users can be created with the same permissions as those in vCenter and Systems Center.
- **vOPS API** – The REST-based vOPS API allows for full programmatic access of vOPS data.

Highly Scalable with Minimal Overhead

vOPS provides features that allow for precise analysis leading to accurate insights that help data centers scale effectively. These include:

- Time zone settings for global data center support at the VM, host and cluster level
- Flexible collection time periods to tailor analysis intervals to an environment
- Exclusions for VM, host, cluster, or resource pool metrics that should not be analyzed

Robust, Ubiquitous Reporting

All of vOPS products and dashboard feature the same interface for reporting. All reports can be

scheduled, sent via email, through SNMP and downloaded ad hoc in PDF, CSV or XML format.

Fast to Download and Install, Easy to Trial

vOPS is available for a 30 day free trial at <http://www.vkernel.com>. vOPS can be installed as a vSphere, RHEV or Hyper-V VM in under an hour.

System Requirements for vOPS

- 4 vCPUs
- 8 GB of memory
- 64 GB of storage space
- VMware ESX 3.0 or vCenter 2.5 or higher (if installed as a VMDK)
- Microsoft Systems Center Operations Manager 2007 R2 (if installed as a VHD)
- Microsoft Systems Center Virtual Machine Manager 2008 R2 U1 (if installed as a VHD)

Support

For technical support please visit <http://www.vkernel.com/support>, email us at support@vkernel.com or call +1 (978) 289 6300.

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