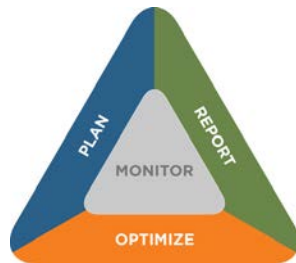


Microsoft Systems Center Integration

VKernel vOperations Suite™ (also referred to as vOPS™) provides enterprise class capacity management and features integration into Microsoft System Center Virtual Machine Manager (SCVMM). The vOperations Suite is comprised of four commercial products:



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

vOPS collects and analyzes data from Microsoft Hyper-V, Red Hat Enterprise Virtualization (RHEV) and VMware vSphere hosts to provide capacity planning, chargeback and reporting for heterogeneous environments. vOPS' alerts can also be sent to SCVMM.

Capacity Management to Heterogeneous Environments

VKernel vOperations Suite collects extensive metrics data on CPU, memory, storage, disk throughput and disk latency for all VMs, hosts, clusters and resource pools from VMware vCenter and Microsoft System Center. This data is then analyzed by a patent-pending Capacity Analytics Engine™ on a real-time basis, which recognizes critical environment changes, forecasts impending problems, identifies resource inefficiency and provides cost visibility through chargeback.

vOPS' Business Views allows vSphere, RHEV and Hyper-V VMs to be grouped together for

reporting, operational tasks and securing access. vOPS' vScope Visualization Engine will also show performance, capacity and cost status for all VMs across multiple sites on a single screen.

VKernel/SCVMM Integration Provides Alerting on Virtual Environment Capacity

vOPS Capacity Manager and vOPS Performance Analyzer can both be quickly configured to send PROtip alerts to SCVMM. The alerts in Performance Analyzer are for critical events that are occurring. Capacity Manager provides alerts for events that are forecast to happen in a virtual environment, such as rapidly increasing memory utilization. This integration is accomplished with the use of Microsoft certified management packs that are auto-installed as part of the Microsoft Systems Center integration setup process.

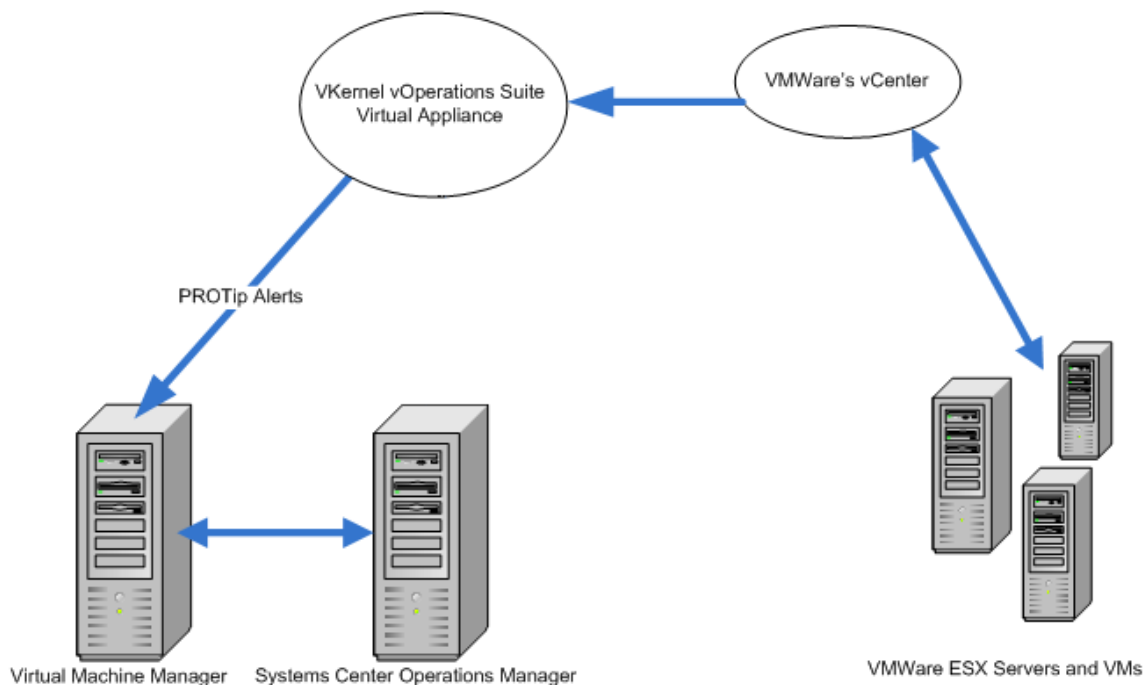
VKernel Alerting Implements in Seconds

Creating alerts in VKernel which can be transmitted to SCVMM is easy and takes no additional configuration. An alert can be set in VKernel software in a matter of seconds. Additionally, a number of critical VM metrics trend alarms are already preconfigured in vOPS.

Current and Predictive Capacity Alerting

VKernel offers two kinds of alerting that are transmitted to SCVMM:

- **Trend Alerts (available in Performance Analyzer)** are set by users to report when resource utilization changes by a certain degree. For instance, an alert can be set up if CPU utilization grows by 50% within a week.



- **Predictive Alerts (available in Capacity Manager)** use the forecasts from the Capacity Analytics Engine to give warnings about future problems before they occur.

Support

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

vOPS is Fast to Install and Easy to Trial

vOPS is available for download and a 30 day free trial at <http://www.vkernel.com>. vOPS can be installed as VMware vSphere, RHEV or Microsoft Hyper-V VM and the entire process typically takes 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
- Microsoft Systems Center Operations Manager 2007 R2
- Microsoft Systems Center Virtual Machine Manager 2008 R2 U1

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