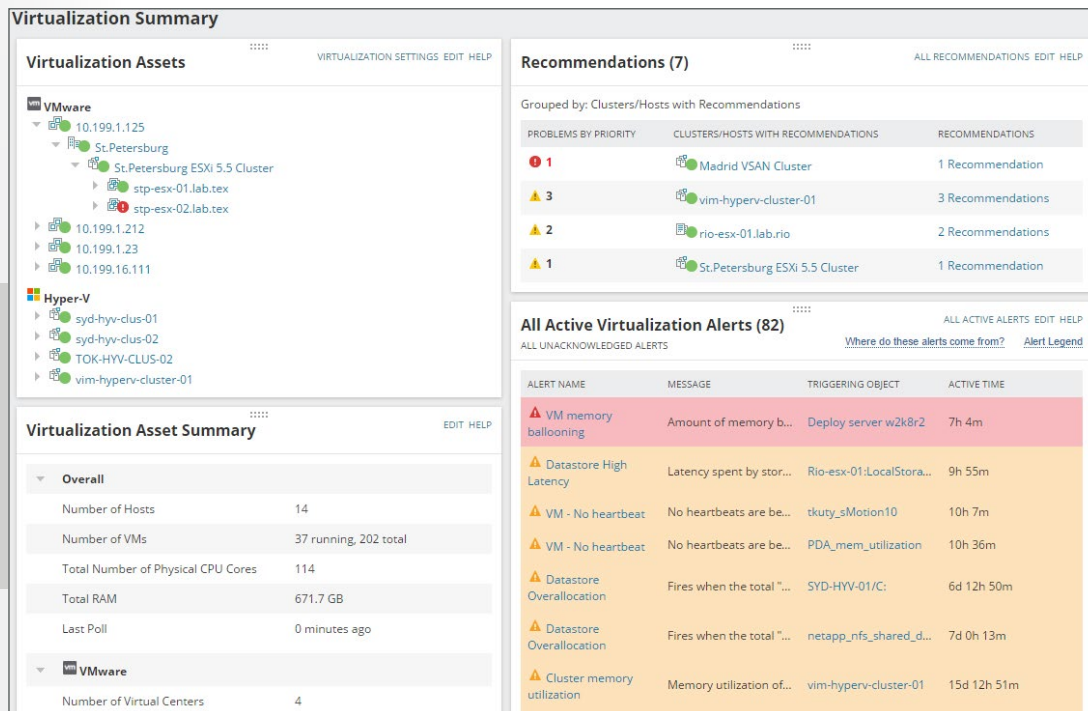




# VIRTUALIZATION MANAGER 7.1

*Comprehensive virtualization management for VMware vSphere and Microsoft Hyper-V*



**Virtualization Summary**

**Virtualization Assets**

- VMware
  - 10.199.1.125
    - St.Petersburg
      - St.Petersburg ESXi 5.5 Cluster
        - stp-esx-01.lab.tex
        - stp-esx-02.lab.tex
    - 10.199.1.212
    - 10.199.1.23
    - 10.199.16.111
  - Hyper-V
    - syd-hyv-clus-01
    - syd-hyv-clus-02
    - TOK-HYV-CLUS-02
    - vim-hyperv-cluster-01

**Virtualization Asset Summary**

| Overall                            |                       |
|------------------------------------|-----------------------|
| Number of Hosts                    | 14                    |
| Number of VMs                      | 37 running, 202 total |
| Total Number of Physical CPU Cores | 114                   |
| Total RAM                          | 671.7 GB              |
| Last Poll                          | 0 minutes ago         |
| VMware                             |                       |
| Number of Virtual Centers          | 4                     |

**Recommendations (7)**

Grouped by: Clusters/Hosts with Recommendations

| PROBLEMS BY PRIORITY | CLUSTERS/HOSTS WITH RECOMMENDATIONS | RECOMMENDATIONS   |
|----------------------|-------------------------------------|-------------------|
| 1                    | Madrid VSAN Cluster                 | 1 Recommendation  |
| 3                    | vim-hyperv-cluster-01               | 3 Recommendations |
| 2                    | rio-esx-01.lab.rio                  | 2 Recommendations |
| 1                    | St.Petersburg ESXi 5.5 Cluster      | 1 Recommendation  |

**All Active Virtualization Alerts (82)**

| ALERT NAME                 | MESSAGE                   | TRIGGERING OBJECT        | ACTIVE TIME |
|----------------------------|---------------------------|--------------------------|-------------|
| VM memory ballooning       | Amount of memory b...     | Deploy server w2k8r2     | 7h 4m       |
| Datastore High Latency     | Latency spent by stor...  | Rio-esx-01:LocalStora... | 9h 55m      |
| VM - No heartbeat          | No heartbeats are be...   | tkuty_sMotion10          | 10h 7m      |
| VM - No heartbeat          | No heartbeats are be...   | PDA_mem_utilization      | 10h 36m     |
| Datastore Overallocation   | Fires when the total "... | SYD-HYV-01/C:            | 6d 12h 50m  |
| Datastore Overallocation   | Fires when the total "... | netapp_nfs_shared_d...   | 7d 0h 13m   |
| Cluster memory utilization | Memory utilization of...  | vim-hyperv-cluster-01    | 15d 12h 51m |

*Download a free product trial and start monitoring your network typically in about an hour.*

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Fully Functional for 30 Days

*SolarWinds® Virtualization Manager delivers integrated VMware® vSphere® and Microsoft® Hyper-V® recommendations, capacity planning, performance monitoring, VM sprawl control, VDI performance monitoring, configuration management, alert remediation, and chargeback automation—all in one affordable product that's easy to download, deploy, and use. Start remediating your VM performance typically in about an hour.*

## VIRTUALIZATION MANAGER AT A GLANCE

- » Actionable intelligence provides recommendations for optimal server performance and placement
- » Use real-time dashboards to easily identify and troubleshoot performance, capacity, and configuration problems
- » Identify VM sprawl, which helps you reclaim and optimize space
- » Monitor and manage your Amazon EC2® and EBS instances from the same console as your on-premises virtualization environment
- » Integrate with Server & Application Monitor for complete visibility of the application stack—from app to VM to datastore—on the Orion® Platform interface
- » Use baseline thresholds for alerting on performance discrepancies on clusters, hosts, VMs, and datastores
- » Help eliminate frequent logins into vCenter™ and take action within Virtualization Manager

## FEATURES

### Actionable Intelligence

Provides active or predictive performance and placement recommendations that can be run immediately, or scheduled to run at a select time.

### Heterogeneous virtualization management

Manage both VMware vSphere and Microsoft Hyper-V environments through a single pane of glass.

### Virtualization performance monitoring and management

Proactively monitor and analyze virtualization-specific performance problems in vSphere and Hyper-V environments.

### Full application stack visibility and contextual awareness

The AppStack™ dashboard will give you contextual awareness of the performance and mapping of your applications and their dependence from the virtualization and storage layers.

### Performance and data metric correlation

Using the PerfStack™ dashboard, you can cross-stack performance data and metrics across your virtualization, storage, applications, systems, and networks systems, allowing for quicker problem identification.

### Virtualization management actions

Integration with the Orion Platform gives you virtualization management actions, such as power on/off, suspend, and reboot a VM, as well as the ability to take and delete snapshots.

### Migration management actions

With VMware vSphere Storage vMotion®, you can migrate VMs to a different host. Also, VM disks can be migrated to a different data store or shared cluster volume using Storage vMotion.

### Intelligent script-based automation

Execute management actions through customized scripts for maximum optimization of virtualized resources.

### Alert remediation

Configure an alert to trigger a management action based on set thresholds.

### Enhanced virtualization metrics

Integration with the Orion Platform gives you more VM metrics data. Get access to features in the Orion Platform, such as role-based access control, web-based reporting, alerting, improved virtualization management, and a synchronization wizard.

### VDI performance monitoring and management

Monitor Virtual Desktop Infrastructure (VDI) performance, quickly troubleshoot issues, and easily plan VDI rollouts.



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## VM rightsizing and capacity planning

Manage, plan, and optimize VMware vSphere and Microsoft Hyper-V virtual infrastructure capacity.

## Virtualization dashboards

Get at-a-glance insight into the performance, capacity, configuration, and usage of your virtualized infrastructure.

## VM sprawl control

Find stale, zombie, and overallocated VMs, add or remove CPU and RAM, and delete orphaned VMDKs.

## Virtualization performance alerts

Quickly discover and act on performance issues using flexible, out-of-the-box alerts within Virtualization Manager. It triggers alerts when a VM fails to respond during the expected interval. Integrating with the Orion Platform allows you to set dynamic thresholds from baselines, and receive alerts when your virtual appliance is about to reach warning or critical states.

## Virtualization configuration management

Track VM and host configurations over time to determine if your virtual environment configuration is performing optimally.

## Virtualization dependency mapping and historical forensics

Map dependencies and perform forensic troubleshooting and problem analysis.

## Virtualization chargeback and showback automation

Govern chargeback/showback IT, infrastructure, and cloud services.

## INTEGRATES WITH APPLICATION STACK MANAGEMENT BUNDLE

### Integration with SolarWinds Server & Application Monitor

When you integrate Virtualization Manager with SolarWinds Server & Application Monitor, you can see a dashboard view of the health and status of your applications, as well as all dependent virtual server, host, cluster, and datastore information that supports the application and its virtual server.

### Integration with SolarWinds Web Performance Monitor

When you integrate Virtualization Manager with SolarWinds Web Performance Monitor, you can see a dashboard view of the user experience and overall performance of internal (CRM, ERP, intranet) and customer-facing web applications. Drill into website load times and page load speed by location, waterfall charts for heaviest page elements, and more.

### Integration with SolarWinds Storage Resource Monitor

Virtualization Manager integrates with SolarWinds Storage Resource Monitor to give you a more detailed view of your virtual disks. You can drill through a datastore all the way to the LUN and array level.



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## SYSTEM REQUIREMENTS

### Virtual Appliance

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| hardware    | minimum requirements  |
|-------------|---|
| CPU         | 2GHz quad-core  |
| Virtual CPU | 4 vCPU  |
| Memory      | 8GB + RAM minimum recommended                                     |
| Hard Drive  | 200GB + free disk space (thin provision by default for VMware)    |
| Other       | Virtual appliance-based installation                              |
| software    | minimum requirements  |
| OS          | Runs on VMware vSphere v6.x, v5.x, or Microsoft Hyper-V 2008/2012 |
| Database    | Integrated with virtual appliance                                 |

### Orion Server

| hardware            | minimum requirements  |
|---------------------|---|
| CPU                 | 2.4GHz quad-core  |
| Memory              | 4GB + RAM minimum recommended   |
| Hard Drive          | 4GB free disk space minimum   |
| software            | minimum requirements  |
| OS                  | Windows® Server® 2008 R2 SP1, 2012, 2012 R2   |
| Database            | Supports Express, Standard, or Enterprise versions of the following: <ul style="list-style-type: none"> <li>▪ SQL Server® 2008, 2008 SP1, 2008 SP2, 2008 SP3, or 2008 SP4</li> <li>▪ SQL Server 2008 R2, 2008 R2 SP1, 2008 R2 SP2, or 2008 R2 SP3</li> <li>▪ SQL Server 2012, 2012 SP1, 2012 SP2, or 2012 SP3</li> <li>▪ SQL Server 2014, or 2014 SP1</li> <li>▪ SQL Server 2016</li> </ul> |
| .Net Framework      | .NET 4.5 required   |
| Web Console browser | <ul style="list-style-type: none"> <li>▪ Microsoft® Internet Explorer® version 11 or later with active scripting</li> <li>▪ Microsoft Edge®</li> <li>▪ Mozilla® Firefox® version 38 or later</li> <li>▪ Google® Chrome® version 51 or later</li> <li>▪ Safari® for iPhone®</li> </ul>   |

*NOTE: The minimum server requirements listed assume default configuration. Significantly increasing the poll rate or statistic collection rate could result in additional load on the server, which may require a larger CPU or additional memory.*

## TRY BEFORE YOU BUY. DOWNLOAD A FREE TRIAL!

Don't just take our word for it. At SolarWinds, we believe you should try our software before you buy. That's why we offer free trials that deliver full product functionality. Simply download and install the software, and take a break while SolarWinds Server & Application Monitor discovers your applications and servers. When you get back, your application and server monitoring environment will be waiting for you, complete with out-of-the-box dashboards, alerts, reports, and more!

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### AMERICAS

Phone: 866.530.8100

Fax: 512.857.0125

E-mail: [sales@solarwinds.com](mailto:sales@solarwinds.com)

### EMEA

Phone: +353 21 5002900

Fax: +353 212 380 232

E-mail: [sales@solarwinds.com](mailto:sales@solarwinds.com)

### APAC

Tel : +65 6593 7600

Fax : +65 6593 7601

E-mail: [sales@solarwinds.com](mailto:sales@solarwinds.com)

7171 Southwest Parkway | Building 400 | Austin, Texas 78735

## ABOUT SOLARWINDS

SolarWinds provides powerful and affordable IT management software to customers worldwide, from Fortune 500® enterprises to small businesses, managed service providers (MSPs), government agencies, and educational institutions. We are committed to focusing exclusively on IT, MSP, and DevOps professionals, and strive to eliminate the complexity that our customers have been forced to accept from traditional enterprise software vendors. Regardless of where the IT asset or user sits, SolarWinds delivers products that are easy to find, buy, use, maintain, and scale while providing the power to address key areas of the infrastructure from on-premises to the cloud. This focus and commitment to excellence in end-to-end hybrid IT performance management has established SolarWinds as the worldwide leader in both network management software and MSP solutions, and is driving similar growth across the full spectrum of IT management software. Our solutions are rooted in our deep connection to our user base, which interacts in our THWACK® online community to solve problems, share technology and best practices, and directly participate in our product development process. Learn more today at [www.solarwinds.com](http://www.solarwinds.com).



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