

# VMware vCenter Operations Management Suite

Automated Operations Management for Virtual and Cloud Infrastructure

## AT A GLANCE

VMware vCenter™ Operations Management Suite™ provides automated operations management using patented analytics and an integrated approach to performance, capacity and configuration management. vCenter Operations Management Suite enables IT organizations to get better visibility and actionable intelligence to proactively ensure service levels, optimum resource usage and configuration compliance in dynamic virtual and cloud environments.

## KEY BENEFITS

- Higher quality of service, fewer incidents and less downtime of infrastructure and application services
- Up to 70 percent in productivity gains from simplified performance, incident and change management tasks
- Up to 30 percent reduction in resource consumption from rightsizing and reclaiming overprovisioned capacity
- Improved team collaboration from better visibility across the entire environment
- Fewer tools needed to monitor the environment
- Continuous compliance with IT policies and regulatory requirements

## What is VMware vCenter Operations Management Suite™?

The role of operations management is to ensure and restore service levels while continuously optimizing operations for efficiency and cost. Dynamic virtual and cloud infrastructure present new challenges to infrastructure and operations teams, including

- **Scale** – Up to 5-10 times more virtual machines can be managed by an administrator (compared to physical environments), and a large number of alerts and false positives need a response.
- **Change** – Infrastructure and application services delivered through self-service portals enable business agility but also make workloads and demand for resources unpredictable, resulting in unplanned change.
- **Convergence** – Management capabilities directly embedded in the platform and new hardware architectures require a new class of metrics that enable IT to understand the overall workload and health of the environment.

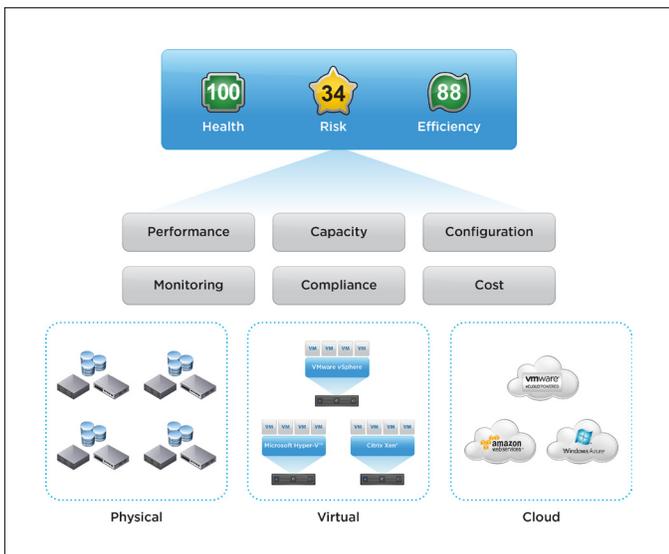
vCenter Operations Management Suite provides a new approach that delivers on three characteristics essential for success:

- **Automated** – Patented, self-learning analytics enable a much higher degree of automation than traditional management tools, delivering nearly 70 percent gains in productivity, 30 percent reduction in resource consumption, and additional business benefits, according to Forrester.
- **Integrated** – An integrated approach to performance, capacity and configuration management, the product is delivered as an integrated suite, converges management disciplines, and unifies teams across infrastructure and operations.
- **Comprehensive** – Built on an open and extensible operations platform designed for dynamic hybrid cloud environments, vCenter Operations Management Suite delivers a comprehensive set of management capabilities, including performance, capacity, change, configuration and compliance management, application discovery and monitoring, and cost metering.

With vCenter Operations Management Suite, infrastructure and operations teams gain comprehensive visibility, intelligent automation and proactive management to ensure quality of service as efficiently as possible.

## How is the vCenter Operations Management Suite Used?

vCenter Operations Management Suite gives you better visibility across all layers of the infrastructure. It collects and analyzes performance data, correlates abnormalities and identifies the root cause of building performance problems. vCenter Operations



Automated operations management for virtual and cloud infrastructure.

Management Suite provides capacity management to optimize resource usage and policy-based configuration management to assure compliance and to eliminate sprawl and configuration drift. Application discovery, dependency mapping and cost-metering capabilities bring new levels of application awareness and financial responsibility to infrastructure and operations teams.

## Gain Comprehensive Visibility Across the Infrastructure

Gain better visibility into planned and unplanned configuration changes, and remediate unwanted changes to ensure operational and regulatory compliance. Manage compliance automatically with out-of-the-box configuration templates. Ensure compliance with policy control and proactive smart alerts across both virtual and physical aspects of your datacenter infrastructure.

- Prebuilt and configurable operations dashboards provide real-time insight into infrastructure behavior, upcoming problems, and opportunities for efficiency improvements.
- Monitoring data is automatically analyzed and expressed as health, risk and efficiency measures that enable IT to detect potential issues in the environment more easily.
- Capacity analytics identify overprovisioned resources so they can be rightsized for most efficient use of virtualized resources. What-if scenarios eliminate the need for spreadsheets, scripts and rules of thumb.
- Out-of-the-box templates ensure continuous compliance with security best practices, hardening guidelines and regulatory requirements.
- Application dependency discovery and visualization bring application-level awareness to infrastructure and operations teams to ensure service levels and disaster-recovery protection for all critical application services.
- Application components and version numbers are named automatically and updated continuously.

Best-in-class scalability enables the monitoring of multiple sites, thousands of metrics and more than 100,000 virtual machines with a single deployment. Designed for VMware vSphere® and built for the cloud, vCenter Operations Management Suite is the best solution for managing dynamic VMware environments. Hooks into third-party monitoring tools enable IT to leverage existing investments.

## Intelligently Automate Operations Management to Maximize Efficiency and Agility

Automate performance, capacity and configuration management with patented analytics and an integrated approach to management. Eliminate finger-pointing, improve team collaboration and reduce manual problem-solving efforts by as much as 40 percent with automated root-cause analysis.

- Infrastructure and operations analytics eliminate time-consuming problem-resolution processes through automated root-cause analysis.
- Automated correlation of health, performance and change events at the infrastructure and guest OS level help pinpoint lingering performance problems.
- Automated rollback and remediation of configuration changes enable administrators to enforce IT policies.
- Flexible capacity and cost-reporting capabilities provide deep visibility into resource consumption trends.
- Automated provisioning and configuration analysis detects unwanted changes and helps IT maintain continuous compliance with operational best practices and regulatory requirements.

## Proactively Manage Service Levels Across the Entire Infrastructure

Get proactive warning of performance issues and capacity shortfalls before problems affect end users. Meet service-level agreements (SLAs) by using real-time performance dashboards to pinpoint building performance issues before end users notice. Optimize your infrastructure for efficiency, and minimize risk of performance across your entire infrastructure, both virtual and physical.

- Self-learning performance analytics and dynamic thresholds adapt to the environment to simplify operations management and eliminate false alerts.
- Integrated smart alerts for health, performance and capacity degradation identify building performance problems before they affect end users.
- Advanced capacity analytics enable administrators to optimize virtual-machine density and identify capacity shortfalls before they affect end users.
- Real-time, integrated dashboards of performance, capacity and configuration change events enable a proactive management approach and help ensure that SLAs are met.
- Policy-based configuration management assures compliance across all aspects of the datacenter infrastructure, including virtual and physical resources.

## What's Included in the vCenter Operations Management Suite?

vCenter Operations Management Suite includes five components: VMware vCenter Operations Manager™, VMware vCenter Configuration Manager™, VMware vFabric™ Hyperic®, VMware vCenter Infrastructure Navigator™, and VMware vCenter Chargeback Manager™.

## vCenter Operations Manager

The foundation of the suite, vCenter Operations Manager provides the operations dashboards, performance analytics and capacity optimization capabilities needed to gain comprehensive visibility, proactively ensure service levels, and manage capacity in dynamic virtual and cloud environments.

## vCenter Configuration Manager

vCenter Configuration Manager automates configuration management across virtual and physical servers, increasing efficiency by eliminating manual, error-prone and time-consuming work. This automation enables enterprises to maintain continuous compliance by detecting changes and enforcing IT policies, regulatory requirements and security hardening guidelines.

## vFabric Hyperic

vFabric Hyperic monitors physical hardware resources, operating systems, middleware and applications. Because vFabric Hyperic is tightly integrated with vCenter Operations Manager, you can manage both virtual and physical infrastructure and business-critical applications with a single suite.

## vCenter Infrastructure Navigator

This component automatically discovers and visualizes application and infrastructure dependencies. It provides visibility into the application services running over the virtual-machine infrastructure and their interrelationships for day-to-day operational management.

## vCenter Chargeback Manager

vCenter Chargeback Manager enables accurate cost measurement, analysis and reporting of virtual machines, providing visibility into the actual cost of the virtual infrastructure required to support business services.

## How to Buy

vCenter Operations Management Suite is available in four editions targeting teams responsible for managing vSphere and virtual infrastructure, heterogeneous virtual and physical environments, or hybrid cloud infrastructure at the OS and application level:

- **vCenter Operations Manager Foundation** – Gain deep operational insights and visibility to enable the performance and health of your vSphere environment. vCenter Operations Manager Foundation is included with every vSphere edition, free of charge.
- **vCenter Operations Management Suite Standard™** – Anticipate performance bottlenecks, optimize capacity consumption and enable vSphere infrastructure health with patented, self-learning analytics, intuitive operations dashboards and actionable recommendations.

- **vCenter Operations Management Suite Advanced** – Deliver quality of service, operational efficiency and configuration compliance across virtual and physical infrastructure with comprehensive operations management capabilities.
- **vCenter Operations Management Suite Enterprise** – Get OS- and application-level monitoring, as well as change and configuration management capabilities to help ensure quality of service, operational efficiency and continuous compliance of both infrastructure and business-critical applications in dynamic hybrid cloud environments.

vCenter Operations Management Suite is available with two license models to fit your needs:

- **Per processor and unlimited virtual machines** – For virtual environments with high consolidation ratios, consider purchasing vCenter Operations Management Suite as part of the VMware vCloud® Suite.
- **Per virtual machine or physical server** – For environments with a mix of virtual and physical servers, vCenter Operations Management Suite is also available a la carte in 25-OS instance license packs.

## Support and Professional Services

VMware offers enterprise-class support to all vCenter Operations Management Suite customers. For customers that require additional services, VMware also offers several professional services engagements on best practices and getting started with your vCenter Operations deployment.

## Find Out More

For information or to purchase VMware products, call 1-877-VMWARE (outside North America, dial +1-650-427-5000), visit <http://www.vmware.com/products>, or search online for an authorized reseller. For detailed product specifications and system requirements, please refer to the VMware vCenter Operations Management Suite documentation.

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*“The next step in our journey to cloud computing is to streamline and automate the operations of our cloud infrastructure. VMware vCenter Operations Management Suite gives us better visibility into key performance, health and efficiency indicators across the operational and infrastructure environments and allows us to achieve higher service levels of our business-critical applications from a single management console.”*

— Matthew Cunningham  
Senior Vice President of IT  
CareCore National

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## What's Included in the vCenter Operations Management Suite?

vCENTER OPERATIONS MANAGEMENT SUITE				
Edition	Foundation	Standard	Advanced	Enterprise
<b>Key Features and Capabilities</b>				
<b>Operational Visibility &amp; Management</b>				
Proactive Smart Alerts	•	•	•	•
Intelligent Operations Groups	•	•	•	•
Comprehensive Operations Dashboards		•	•	•
Flexible Operations Policies		•	•	•
Automated Workflow Triggers		•	•	•
Operational Compliance Views			•	•
Customizable Dashboards			•	•
<b>Performance Monitoring &amp; Analytics</b>				
vSphere Health Monitoring	•	•	•	•
Self-learning Performance Analytics	•	•	•	•
Dynamic Thresholds		•	•	•
Root Cause Analysis and Recommendations		•	•	•
Monitoring of physical resources (CPU, disk, memory, network)			•	•
Extensible to 3rd party datasources			•	•
Monitoring of Microsoft OS, middleware, applications and Oracle databases**				•
Storage adapters for EMC Symmetrix™ and NetApp™ storage arrays				•
** Includes monitoring of Microsoft Windows, SQL Server, Exchange, IIS, .NET, ActiveDirectory and Oracle databases				
<b>Capacity Management</b>				
Capacity Metering and Trending		•	•	•
Right-sizing and resource optimization		•	•	•
Scenarios and Modeling		•	•	•
Alerting and Reporting		•	•	•
<b>Change, Configuration and Compliance Management</b>				
vSphere change detection and performance correlation		•	•	•
vSphere configuration and compliance assessments**			•	•
OS-level change, patch and configuration management**				•
Remediation and Rollback			•	•
** Regulatory Compliance Content Packs (PCI, HIPAA, SOX, etc.) are sold separately				
<b>Application Dependency Mapping</b>				
Automated Discovery			•	•
Naming and Versioning			•	•
Relationship Visualization			•	•
<b>Cost Metering and Reporting</b>				
Fixed and variable cost models			•	•
Cost visibility for business teams			•	•
Cost analysis and reporting			•	•

Compare Editions of vCenter Operations Management Suite

