Q4 2012 Cloud Management Launch: vCenter Operations 5.6 Management Suite

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VMware Cloud Management Launch
Q4 2012
VMware Cloud Management – What’s New in Q4 2012

NEW vCenter Operations 5.6 Management Suite

NEW vCloud Connector 2.0 Advanced

NEW vCloud Automation Center (formerly Dynamic Ops)

NEW IT Benchmarking Service

NEW vFabric Application Director 5.0
vCenter Operations 5.6
Management Suite
Key New Capabilities
Key New Features in vCenter Operations Management Suite 5.6

Intelligent Operations Groups
- Manage your infrastructure aligned with the business: by application, line of business or tag
- Flexible Group Policies allow prioritized management of business critical applications and production vs non-production workloads

Application and OS-level Monitoring
- Monitor physical hardware resources, Windows and Linux, Microsoft Exchange, SQL, IIS, .NET and Oracle databases with vFabric Hyperic** now included with select editions of the vCenter Operations Suite

Actionable Recommendations
- Get insight and guidance to better understand performance issues and how to remediate them based on VMw best practices

Automated Workflows
- Associate automated workflows created in vCenter Orchestrator with vCenter Operations alerts

Compliance Dashboard Views
- Track compliance with configuration standards, IT policies and regulatory requirements*** from the vCenter Operations dashboard

** EULA restrictions apply and vary by edition
*** Functionality varies by edition or installed option
Overview

- Organize IT operations by line of business, production workload or configuration type
- Create group policies to prioritize alerts, thresholds and group membership
- Automatically discover application components and dependencies and monitor them
- View health, risk and efficiency at the group and component level

Benefits

- Align Infrastructure Operations with business teams and priorities
Application and OS-level Monitoring

Overview

- Monitor physical hardware resources, OS and business critical applications from Microsoft and Oracle with vFabric Hyperic, now included in the vCenter Operations Management Suite
- Automatically correlate infrastructure and application performance and health
- Proactively identify abnormal behavior and performance bottlenecks

Benefits

- Gain comprehensive visibility into virtual and physical infrastructure, OS and applications performance
- Monitor and manage infrastructure and applications with a single solution across virtual, physical and multi-cloud environments
Compliance Badge

Overview

- Monitor compliance of configurations for critical standards from within the operations management console
- Assess risk of violations by level of severity
- Take action on non-compliant items by launching Configuration Manager in-context

Benefits

- Provide increased visibility into the compliance posture of the infrastructure
- Enhanced ‘Risk’ score calculation that takes into account both Capacity and Compliance information
Chargeback Manager – Enhancements

**Overview**

- Improved Platform support
- Deeper integration with vCloud Director
- Included with vCenter Operations Management Suite
- Connectors to ITBM cost model push real usage data for planning

**Benefits**

- Meter usage of your private cloud
- Know and publish the true costs of running cloud
vCenter Operations Manager Foundation

**Overview**
- vCenter Operations Manager included in all editions of vSphere at **NO CHARGE**
- Provides performance and health management of vSphere hosts and virtual machines
- Fully integrated with the new vSphere 5.1 client

**Benefits**
- Simplified management of vSphere
- Easy on-ramp to automated operations management concepts delivered by the full Suite
vCenter Ops: Visibility & Management Across Multiple Clouds

Gain Cross-Cloud Visibility

- Visibility into and management of a heterogeneous, hybrid software defined datacenter
- Drill down for root cause analysis of performance issues
- Capacity monitoring/planning and waste reclamation

Drill Down to Identify Performance Issues

Click to get guest details
vCenter Ops: Cross-Cloud Config and Compliance Governance

Govern, Automate and Enforce Compliance in the Cloud

- Compliance - governance, automation and enforcement across clouds
  - For each cloud: create separate machine groups, configure compliance templates, collect data for every machine and remediate compliance breaches
- One click remediation of configuration changes that adversely affect performance

Configure separate compliance template for each cloud

Track Compliance results for each cloud

Correlate Config Changes to Performance and Remediate

Monitor Compliance

Correlate changes with health scores

Drill down and remediate in Configuration Manager

Aug 13, 2011 5:43:51 AM | 30 Registry changes - View in VCM console

Note: Certain Features such as the Compliance Badge, Intelligent Groups and Policies will be available in Q4 2012
vCenter Operations Management
Suite 5.6
Pricing and Packaging Highlights
vCenter Operations Management Suite 5.6 Editions

- **Automated Operations Management**
  - Operating Systems and Applications (Multi-Cloud)

- **Virtual and Physical Infrastructure**

- **vSphere**
  - VC Ops Manager Foundation
    - vSphere Health and Performance
  - vSphere (All Editions)
  - vSphere Health and Performance
  - vSphere Standard with Ops Mgmt

- **VC Ops 5.6 Suite Standard**
  - Operations Dashboards
  - Capacity Optimization
  - vSphere Health and Performance
  - (25 VM Pack)

- **VC Ops 5.6 Suite Advanced**
  - Operations Dashboards
  - vSphere Change & Configuration Mgmt
  - Cost Metering
  - (25 OS Instance Pack)

- **VC Ops 5.6 Suite Enterprise**
  - VC Ops Manager Foundation
  - vSphere Health and Performance
  - App Discovery and Dependency
  - (A-la-carte Price)

- **Included with**
  - No charge
  - (25 OS Instance Pack)

- **A-la-carte Price**
  - (25 OS Instance Pack)
### vCenter Operations Mgmt Suite 5.6 Edition and Capability Map

<table>
<thead>
<tr>
<th>vCenter Operations Manager 5.6</th>
<th>Included in</th>
<th>Price (25 license pack)</th>
<th>VC Ops Mgr Foundation</th>
<th>VC Ops Suite Standard</th>
<th>VC Ops Suite Advanced</th>
<th>VC Ops Suite Enterprise</th>
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<tbody>
<tr>
<td>vSphere</td>
<td>No charge</td>
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<td>vCloud Suite Adv</td>
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<td>Enterprise</td>
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- vCenter Operations Manager 5.6
  - vSphere Performance and Health Monitoring
  - Operations Dashboards and Capacity Optimization
  - Custom Dashboards with role-based access
  - Storage Adapters for EMC Symmetrix and NetApp
  - Adapter for 3rd party monitoring tools (SCOM, Tivoli, …)

- vFabric Hyperic 5.0
  - OS Resource Monitoring (CPU, Memory, Disk, Network)**
  - App, DB and Middleware Monitoring (SQL, Exchange, Oracle)***

- vCenter Configuration Manager 5.6
  - vSphere change and configuration management
  - OS-level change, configuration and patch management
  - Regulatory compliance content packs (PCI, HIPAA, SOX)

- vCenter Infrastructure Navigator 2.0
  - Application discovery and dependency mapping

- vCenter Chargeback Manager 2.5
  - Cost metering and reporting

vFabric Hyperic includes over 70 plugins. EULA restrictions for Hyperic apply in VC Ops Advanced and Enterprise:

** Includes Hyperic Platform plug-ins for Windows, Linux, AIX, Solaris, HP-UX

*** Includes Hyperic Server plug-ins for Microsoft IIS, .NET, ActiveDirectory, Exchange, Sharepoint, SQL and Oracle DB

Unrestricted licenses of vFabric Hyperic for all other supported technologies are available for $360/server.
### New and Updated Components of the vCloud Suite – Q4 2012

<table>
<thead>
<tr>
<th>Cloud Infrastructure &amp; Management</th>
<th>Price (per CPU, license only)</th>
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<tbody>
<tr>
<td><strong>v Cloud Automation Center</strong></td>
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<tr>
<td>• Provisioning and management of IT services in vSphere environments</td>
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<td><strong>v Fabric Application Director</strong></td>
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<td>• Automated configuration and deployment of multi-tier cloud applications</td>
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<td><strong>v Center Operations Management</strong></td>
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<tr>
<td>• Application Monitoring – OS, middleware, databases</td>
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<td>• Storage Adapters for EMC Symmetrix and Netapp</td>
<td>vCOPS Advanced</td>
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<tr>
<td>• OS-level change, patch and configuration management</td>
<td>vCOPS Enterprise</td>
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<tr>
<td>• vSphere change and configuration management</td>
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<tr>
<td>• Performance &amp; Capacity Optimization – analytics, dashboards and alerting</td>
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<tr>
<td>• Application Awareness – discovery dependency mapping</td>
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<td>• Chargeback – metered utilization reporting and accountability</td>
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<td><strong>v Center Site Recovery Manager</strong></td>
<td>vCOPS Advanced</td>
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<tr>
<td>• Automated disaster recovery planning, testing, and execution</td>
<td>SRM Enterprise</td>
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<td><strong>v Cloud Networking and Security</strong></td>
<td></td>
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<tr>
<td>• Advanced continuous availability firewall and network</td>
<td></td>
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<tr>
<td>• Software defined networking, security, and ecosystem integration</td>
<td>vCloud Net &amp; Sec Standard</td>
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<tr>
<td>• vCloud Director &amp; v Cloud Connector</td>
<td>vCloud Net &amp; Sec Advanced</td>
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<tr>
<td>• Virtualized datacenters with multi-tenancy and public cloud extensibility</td>
<td>vCloud Net &amp; Sec Advanced</td>
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<td><strong>v Sphere Enterprise Plus</strong></td>
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<tr>
<td>• Virtualized infrastructure with policy-based automation</td>
<td>vSphere Enterprise Plus</td>
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</tbody>
</table>

**Notes:**
- New or Updated component
vCenter Configuration Manager Compliance Content Map

<table>
<thead>
<tr>
<th>vCenter Configuration Manager 5.6</th>
<th>VC Ops Suite Advanced</th>
<th>VC Ops Suite Enterprise</th>
<th>Regulatory Compliance Pack</th>
</tr>
</thead>
<tbody>
<tr>
<td>VMware Specific Content (e.g. vSphere Hardening)</td>
<td>Included</td>
<td>Included</td>
<td>Included $295 (Option)</td>
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<tr>
<td>Other Vendor Guidance (e.g. MS Hardening and Best Practice)</td>
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<tr>
<td>Misc Tools and Packages (e.g. Conficker, Green IT)</td>
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<td>Healthcare Content (e.g. HIPAA)</td>
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<tr>
<td>Banking and Financial Content (e.g. PCI, SOX, Basel)</td>
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<td>Federal Content (e.g. DISA, FISMA, FDCC)</td>
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<tr>
<td>Energy Sector Content (e.g. NERC)</td>
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<tr>
<td>Other Industry Guidance (e.g. CIS, CobiT, ISO)</td>
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</tbody>
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See Center for Policy & Compliance Datasheet for full details.
Hyperic Monitoring in VC Ops Suite

- **Operating Systems**
  - AIX Monitoring
  - HP/UX Monitoring
  - Linux Monitoring
  - Solaris Monitoring
  - Windows Monitoring
  - Mac OS X Monitoring
  - FreeBSD Monitoring

- **Web Servers**
  - Apache Monitoring
  - IIS Monitoring
  - Perlbal Monitoring
  - Sun Java System Monitoring

- **Application Servers**
  - Apache Geronimo
  - Glassfish Monitoring
  - JBoss Monitoring
  - Jetty Monitoring

- **Database Technologies**
  - DB2 Monitoring
  - Gemfire Monitoring
  - Informix Monitoring
  - MySQL Monitoring
  - Oracle Monitoring
  - PostgreSQL Monitoring
  - SQL Server Monitoring

- **Messaging Middleware**
  - ActiveMQ Monitoring
  - IBM MQ Monitoring
  - RabbitMQ Monitoring

- **Microsoft Technology**
  - Exchange Monitoring
  - Active Directory Monitoring
  - Sharepoint Monitoring
  - .Net Monitoring

- **Virtualization**
  - VMware Monitoring
  - XenServer Monitoring

- **Mail Servers**
  - Postfix Monitoring
  - Sendmail Monitoring
  - Zimbra Monitoring

- **Network Management**
  - Nagios Monitoring
  - NTP Monitoring
  - Samba Monitoring
  - Spring Insight Monitoring
  - ZXTM Monitoring
  - Custom Monitoring

- **Application Management**
  - JMX Monitoring

- **Distributed Platforms**
  - Bind Monitoring
  - NTP Monitoring
  - OpenLDAP Monitoring

- **Application Platforms**
  - LAMP Monitoring
  - LAM-J Monitoring
  - J2EE Monitoring

- **Integrated Applications**
  - ColdFusion Monitoring
  - Alfresco Monitoring

Hyperic metrics are displayed in the custom dashboards in vCenter Operations Manager. Unrestricted vFabric Hyperic licenses are available for $360/OS Instance. (See vFabric Hyperic SKU on VMware Pricelist)
Appendix
Example: NetApp Adapter in vCenter Operations

Custom dashboards built using metrics from NetApp adapter showing:
- Topology Map
- Dynamic Thresholds
- Data correlation with vSphere, Hyperic metrics