VMware vRealize Operations and vRealize Log Insight
Intelligent Operations from Applications to Storage—across physical, virtual and cloud infrastructures

AT A GLANCE

VMware vRealize™ Operations™ and VMware vRealize™ Log Insight™ enable Service Providers to deliver intelligent operations management across physical, virtual, and cloud infrastructures—including VMware vSphere® and clouds based on VMware vCloud Director® or VMware vCloud® Air™. Together vRealize Operations and vRealize Log Insight correlate structured and unstructured data from applications to storage in a unified, easy-to-use management tool that provides control over performance, capacity, and configuration with predictive analytics driving proactive action and policy-based automation.

Custom Data Centers (CDCs) allow Service Providers to combine hosts, clusters, and data centers from one or more vCenter environments and map those CDCs to individual tenants to create logical groupings of objects, delivering full capacity management, planning, and support for all analysis badges.

VMware vRealize Log Insight complements vRealize Operations by delivering real-time log management with machine learning-based Intelligent Grouping and high-performance search capabilities for faster troubleshooting and improved operational analytics.

KEY BENEFITS

- Proactive identification and remediation of emerging performance, capacity, and configuration issues to achieve the highest levels of availability
- Continuous monitoring and automatic capacity management to optimize scarce infrastructure resources
- Comprehensive visibility across multiple tenants, applications, compute, storage, and networking in a single console
- Automated enforcement of IT policies, configuration standards, and regulatory requirements
- Workload balancing for optimal placement of workloads based on the operational characteristics of the environment
- Reduced OpEx and increased operational efficiency from accelerated troubleshooting times, improved mean-time-to-resolution (MTTR), and reduced manual effort

About VMware vRealize Operations

Traditional operations management systems do not meet the requirements of today’s virtual and cloud infrastructures. They make it difficult for Service Providers to be proactive because traditional systems lack the intelligence to aggregate, correlate, and analyze metrics across applications and infrastructure stacks.

vRealize Operations is built on a scale-out, resilient platform designed to deliver intelligent operational insights to simplify and automate management of applications and infrastructure across virtual, physical, and cloud environments—including vSphere and clouds based on vCloud Director or vCloud Air.

With vRealize Operations, Service Providers can deliver SLAs and ensure the best performance and availability of IT resources by proactively and continuously managing environmental health and capacity. They can also optimize the efficiency of operations by unifying the management of applications, compute, storage, and networking from a single user interface.

vRealize Operations delivers:

Intelligent operations – This enables Service Providers to proactively address the health and capacity of the IT environment to ensure the best performance and availability of IT resources across hybrid and heterogeneous hypervisor landscapes. Self-learning tools, predictive analytics, and Smart Alerts about operating system, application, and infrastructure health enable automated configuration enforcement, proactive identification, and guided remediation of emerging performance, capacity, and configuration issues.

vRealize Operations supports CDCs to allow Service Providers to understand capacity across clusters and vCenter boundaries. CDCs allow you to combine hosts, clusters, and data centers from one or more vCenter environments using a simple wizard-driven CDC creation process. CDCs can be mapped
to individual tenants to prioritize alerts and create logical groupings of objects you want to monitor more closely, delivering full capacity management and planning and support for all analysis badges.

Intelligent workload balancing is enabled at the CDC level, allowing Service Providers to visualize how clusters are loaded with workloads and providing recommendations for optimal placement of new workloads to avoid capacity bottlenecks. The rebalancing action supports policy-driven recommendations to identify the best fit destination for optimal capacity utilization, shows movement candidates and can automatically distribute workloads based on the workload-balancing plan both within the CDC and across cluster boundaries. It looks not only at capacity but also performance analytics such as IOPs, memory, etc. before making recommendations to ensure that workloads can fit into minimal infrastructure without performance risk.

Custom profiles can also be used for capacity modelling against a CDC. Service Providers can define a workload profile and run that profile against the CDC to determine if the CDC can support the workload. For capacity-planning purposes, Service Providers can also commit and reserve capacity for future projects and incorporate that planning into time-and capacity-remaining badges. A new capacity utilization dashboard shows capacity utilization distribution within the CDC and uses capacity-remaining values to determine the “optimal” recommended size of virtual machines.

Integrated operating system (OS) and application monitoring is now delivered natively in vRealize Operations to enable predictive analytics and help Service Providers proactively identify and avoid potential issues across infrastructure and application stacks in a single dashboard.

Policy-based automation – Out-of-the-box and customizable policies for critical IT operations are associated with Smart Alerts, guided remediation, and compliance standards to deliver recommendations, or trigger actions, that optimize performance and capacity and enforce configuration standards.

Unified management – An open and extensible platform, supported by third-party management packs for Microsoft, SAP, and others, provides complete visibility in a single console across applications, storage, and network devices.

About VMware vRealize Log Insight
vRealize Log Insight delivers real-time log management, with machine learning-based Intelligent Grouping and high-performance searches to enable faster troubleshooting, root cause analysis, and improved operational analytics across physical, virtual, and cloud environments.

vRealize Log Insight collects and analyzes a variety of machine-generated log data (e.g., application logs, network traces, configuration files, messages, performance data, system state dumps, etc.). It provides a single location to collect, store, and analyze logs at scale, featuring an intuitive interface to run interactive searches as well as deep analytical queries for quick, actionable insights. It can analyze terabytes of logs, discover structure in unstructured data, and deliver infrastructure-wide visibility for faster troubleshooting.

vRealize Log Insight enables Service Providers to ensure the service levels of their infrastructure and applications while optimizing IT operations for efficiency and cost, and assisting them in complying with IT policies, configuration standards and regulatory requirements such as PCI-DSS and SOX.

Machine learning-based Intelligent Grouping allows vRealize Log Insight to group related data together for faster problem detection. It delivers real-time monitoring, search, and log analytics coupled with a dashboard for stored queries, reports, and alerts, enabling correlation of events across the physical, virtual, and cloud environments, especially for large data sets.

vRealize Log Insight can scale to support large environments with data ingestion rates of up to 15,000 events per second per node, up to 12 nodes per cluster, and up to 2.4 terabytes of data per day. The powerful analytics engine delivers multifunction charts, interactive analytics snapshots, highlights for event types, and event trends baselines. It is designed for low touch administration, delivering high availability through a masterless architecture, hands-free rolling upgrades, rollback for cluster nodes and event forwarding with UDP support.

Bi-directional integration enables vRealize Log Insight to send alerts to vRealize Operations to enable administrators to go directly to the set of log messages that triggered an alert.

Learn More
For more information or to purchase VMware products, call 1-877-VMWARE (outside North America, +1-650-427-5000) or visit http://www.vmware.com/products.

For detailed product specifications and system requirements, refer to the VMware vRealize Operations documentation at http://www.vmware.com/products/vrealize-operations.

Get more out of vRealize Operations with third-party management packs. For a complete list of third-party management packs and extensions, please visit https://solutionexchange.vmware.com/store.

VMware, Inc. 3401 Hillview Avenue, Palo Alto, CA 94304 USA Tel 1-877-486-9273 Fax 1-650-427-5001 www.vmware.com
Copyright © 2016 VMware, Inc. All rights reserved. This product is protected by U.S. and international copyright and intellectual property laws. VMware products are covered by one or more patents listed at http://www.vmware.com/patents. VMware is a registered trademark or trademark of VMware, Inc in the United States and/or other jurisdictions. All other marks and names mentioned herein may be trademarks of their respective companies. Item No: VMW6701-DS-VREALZ-BUS-USLET-1070315