

Veritas™ Operations Manager

Centralized management of heterogeneous applications, servers, and storage

Overview

Today's datacenter is increasingly more complex; there are too many disparate tools, too many manual processes, and adopting new technologies such as virtualization introduces its own set of challenges. The result is reduced visibility and control of your infrastructure, reduced utilization of storage assets, increased challenge in scaling operations, and an increased risk of unplanned downtime.

The challenge for IT organizations now is to maintain end-to-end visibility and control of an increasingly heterogeneous environment, as well as to optimize data center assets without affecting the availability of mission-critical applications. Veritas™ Operations Manager is a comprehensive management platform, for Storage Foundation and Cluster Server environments, that helps you optimize your data center assets, with a solution to centralize visibility and control, ensure availability, scale operations, increase storage utilization, and maintain compliance.

Highlights

Veritas Operations Manager offers four key benefits that are designed to improve productivity of server teams and availability of application and storage:

- **Centralized Visibility and Control** – Monitor heterogeneous applications, server and storage environments from a single pane of glass, resulting in reduced operating costs and scalable operations
- **Automation**—Perform quicker and more accurate execution of day-to-day tasks with features such as DMP State Migration and Volume Migration. Maintain standards by automatically creating storage templates from existing configurations and using them to provision new host storage based on similar configurations

- **Reporting**—Gather data in seconds that would otherwise take hours, days, or weeks; thereby improving productivity and application and storage availability. Examples of reports include: which hosts have a single path, which licenses are deployed, and how much storage is consumed
 - **Risk Mitigation**—Figure out which servers have risks to availability and performance, plus acting on those servers before they have an impact on business. Point out best practice and opportunities to increase utilization of the existing environment
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Centralized Visibility and Control

Veritas Operations Manager allows you to centrally manage application, server, and storage environments from a secure Web-based console. With a summary dashboard that displays the state of these resources, administrators are able to monitor the data center infrastructure and drill down to manage any risks or faults in the environment.

The dashboard provides information quickly by collecting data from hundreds of Storage Foundation hosts and giving a detailed view of the underlying infrastructure. This includes the number and status of application groups and databases, operating system details, and the status of host bus adapters (HBAs), disks, disk groups, volumes, and enclosures.

This visibility allows administrators to quickly identify the root cause of faults and repair them online, leading to faster application deployment times, higher service levels, and reduced risk of human error.

The concept of an application group provides insight into storage resources needed to run an application stack. Equally, the reports on storage and file system utilization deliver an overview of how much storage is used per application group or across the organization.

Data Sheet: Storage Management Veritas™ Operations Manager

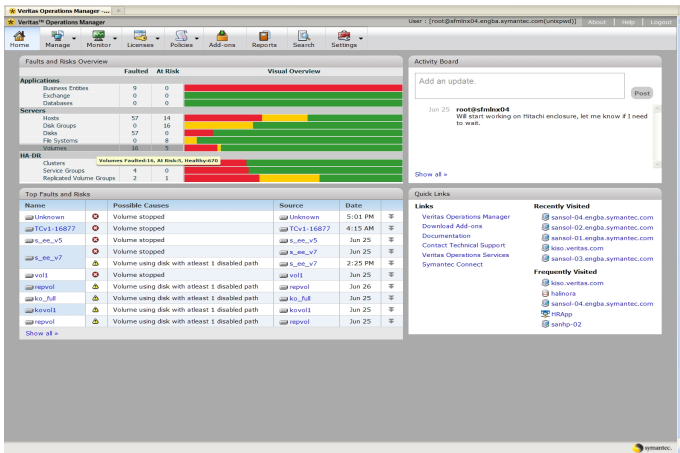


Figure 1. Veritas Operations Manager provides centralized visibility and management across diverse applications, servers, and storage.

Automation

Automation helps to assist operators leveraging Storage Foundation to handle key operations such as DMP path management and storage migration. Using a guided workflow, DMP management reduces the complexity of managing thousands of I/O paths in case they need to be temporarily disabled/enabled for array maintenance. Template-based storage provisioning helps you setup well-tested Storage Foundation configurations across your datacenter to optimize performance, and provision for application growth. The Volume Migration add-on simplifies complex migrations of data from one array to another. This add-on provides a simple graphical interface that allows volumes to be moved between homogeneous or heterogeneous storage arrays without taking applications offline. Migrations can be executed immediately or scheduled to occur at a later time.

Reporting

Veritas Operations Manager provides comprehensive reports and views on storage utilization, cluster activity, availability trends, product usage, licensing and patching. Our reports provide valuable information about your infrastructure that can be used to reduce storage

consumption and ensure availability and to maintain standards and compliance:

- Storage utilization reports help you easily identify underutilized storage pools and to reclaim them on supported arrays
- License deployment reports, based on your environment, and ensure compliance
- Up-time analysis reports help you identify the root cause of availability problems and prevents them from recurring
- Patch reports help you identify which patches are applicable to your Storage Foundation and Cluster Server deployments to ensure that the most recent patches are in deployment
- Infrastructure inventory reports track all your data center assets to provide you greater visibility into your infrastructure

Risk Mitigation

Health Check is designed to give administrators visibility into the health and configuration of the Storage Foundation deployments it manages. Through a series of checks, it periodically inspects hosts and reports back on the information it discovers at both high and detailed levels. Four categories of checks are available:

- **Availability** checks ensure that the volume configuration is setup properly and redundantly.
- **Performance Risk** checks monitor and report on the performance of Storage Foundation, e.g. I/O access times or waits.
- **Storage Foundation Utilization** are checks related to whether file systems or volumes are mounted or can instead be reclaimed for further use.
- **Best practices** provide a set of tips on how to more efficiently use Storage Foundation.

Advanced Functionality Enabled with Add-ons

Add-ons enable new features to be deployed easily with a few simple commands. Available add-ons are: Template Based Storage Provisioning and Volume Migration, as well as Storage Foundation Administration for Windows and for UNIX.

Supported Operating Systems

- IBM AIX®
 - HP-UX®
 - Linux
 - Sun Solaris™
 - Microsoft® Windows
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More information

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