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Inspire the Next

Hitachi IT Operations Analyzer and DataCore SANsymphony–V Software

Hitachi IT Operations Analyzer provides detailed monitoring of your DataCore SANsymphony-V environment alongside other facets of your data center. The tight integration between these 2 complementary software packages helps you to increase the availability and performance of your IT infrastructure, while shortening the mean time to diagnose potential problems.

Gain a Holistic View of Your Data Center, Including Storage Resources Virtualized by DataCore

Challenge

Maintaining a highly available and responsive data center depends on visibility across applications, as well as a diverse IT infrastructure of multivendor servers, network and storage devices, whether physical or virtual. Hitachi brings that end-to-end visibility through tight integration with these various components, including the DataCore SANsymphony-V storage hypervisor, and maximizes the availability, performance and utilization of your storage infrastructure.

Problems are inevitable. The only questions are: How will you respond, and how quickly? Without an end-to-end perspective you might be forced to "fight recurring fires," and rely on several fragmented utilities to try to identify the source of the problems.

Solution

Hitachi IT Operations Analyzer provides the holistic view required to monitor your data center, including the storage resources virtualized by DataCore. The solution makes it possible to:
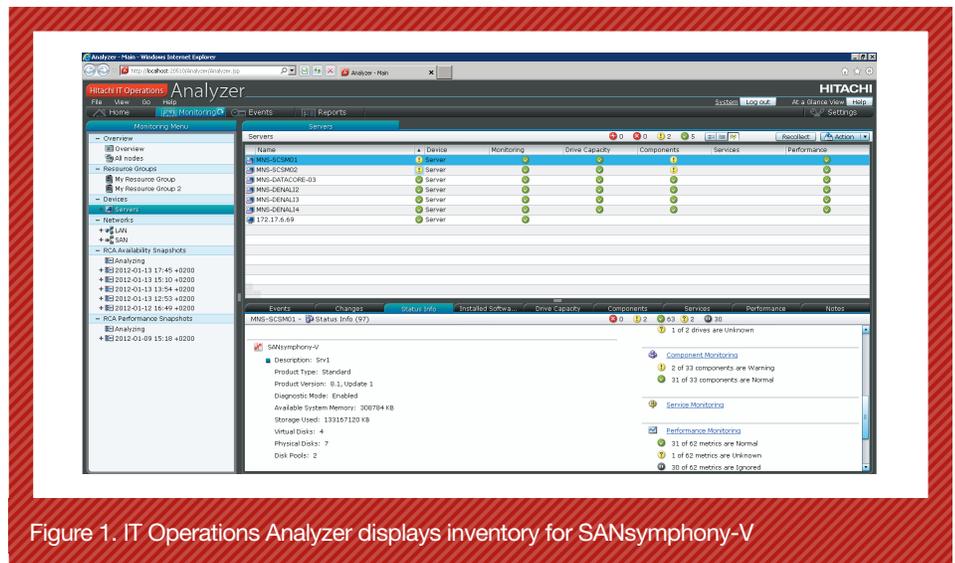

Figure 1. IT Operations Analyzer displays inventory for SANsymphony-V

- Monitor your entire infrastructure through a single pane of glass.
- Instantly gain deeper insight into the SANsymphony-V storage virtualization layer.
- Keep storage healthy and operating at peak performance.

Combined Performance

Bringing Hitachi IT Operations Analyzer into your data center can transform operations and provide a complete view of the data center, resulting in significant benefits, including:

- Up to 90% faster mean time to diagnose

DataCore™
SOFTWARE

◎Hitachi Data Systems

- Proactive alerting, leading to improved uptime and greater customer satisfaction
- Insight into major availability and performance metrics
- Awareness of virtual machines (VM), virtual disks and virtual server connectivity
- Reduced system downtime
- Time and resource savings for busy system administrators

Features: Hitachi IT Operations Analyzer

Hitachi IT Operations Analyzer offers several features, including a proprietary root cause analysis engine, that make it easier for administrators to monitor the DataCore storage environment. These features help you identify, diagnose and remedy problems faster.

Enhanced Visibility into the SANsymphony-V Virtualized Storage Environment

The DataCore plug-in for the IT Operations Analyzer is used to discover and monitor the physical and virtual storage assets managed by SANsymphony-V software.

Root Cause Analysis

The root cause analysis engine in IT Operations Analyzer runs automatically in the background, constantly looking for any critical events.

For your DataCore-managed assets, as well as other aspects of your data center, root cause analysis can:

- Reduce mean time to diagnose issues up to 90%.
- Quickly determine the root cause of the real problem using built-in intelligence.
- Automatically perform bottleneck analysis.

- Enable analysis of a large number of event alerts in just a few minutes.
- Provide probability levels as to which devices are creating the issues.

Proactive Alerting

IT Operations Analyzer can help administrators move from a reactive stance of "putting out fires" to gaining early warning into potential issues before they upset end users or create outages; they can improve customer satisfaction and help you adhere to service level agreements (SLAs).

With proactive alerting, administrators can create performance thresholds on devices. These thresholds may be related to chassis metrics like voltage levels, or to server performance metrics such as CPU load, or other critical metrics. By alerting them to potential issues, administrators can take action to help prevent performance bottlenecks before they occur.

Insight into Virtual Machines

IT Operations Analyzer provides deep insights into VMs running in data centers. Using information easily accessible through the IT Operations Analyzer virtual frame, administrators can quickly determine where VMs reside and consolidate or deploy VMs more efficiently. The virtual frame supports VMware ESX and ESXi, as well as Microsoft Hyper-V.

In a DataCore SANsymphony-V environment, IT Operations Analyzer makes it possible to view:

- Tiered storage pools
- Virtual and physical disks
- Hosts to whom those disks are served

In addition, IT Operations Analyzer displays port and channel connectivity across the storage area network.

Features: DataCore SANsymphony–V Storage Hypervisor

SANsymphony-V software provides a cost-effective way to solve difficult storage-related challenges caused by server and desktop virtualization, cloud computing and the recurring modernization of IT infrastructures. The software forms an active, transparent virtualization layer across disk storage devices to maximize the availability, performance and utilization of data centers of all sizes.

The integrated set of centrally managed data protection, provisioning, caching, replication and migration functions operates uniformly across different models and brands, assimilating current and future equipment nondisruptively. SANsymphony-V enables businesses to:

- Speed up application performance by removing I/O bottlenecks.
- Maximize use of available disk capacity.
- Eliminate storage-related disruptions due to maintenance, upgrades, facility outages, etc.
- Extend the life of tiered storage investments.

Learn More

To learn more about how Hitachi IT Operations Analyzer improves visibility in data centers, visit: www.itoperations.com/Partners/.