

Operations analytics to optimize Data center storage resources

Description

The Storage Analytics solution delivers a single, end-to-end view of storage and network resources. Delivers actionable performance analysis and proactively facilitates increased insight into storage resource pools to help detect capacity and performance issues so they can be corrected before they cause a major impact.

Comprehensive visibility and customizable dashboards for storage administrators, showing health, performance and capacity metrics. Provides a single view of the most important performance metrics for the storage resources.

Challenge

- Data is retrieved from FTP and processed at data center server, this is to monitor and manage storage and network performance. IT & Network administrators would like to view the complete configuration detail of a particular storage or Network resource which tends to fail or failed. Unable to find when the cross site access happens between primary & secondary storage device.
- View end-to-end topology mapping from virtual machines to disk drives to display showing symptoms and alerts and drill to details of the configuration to act upon quickly to maintain service levels. Analyze resources to identify risks and diagnose root cause to recommend solutions
- Problem detection (performance and capacity anomalies), isolation and remediation actions to ensure service levels. Mapping to enable health and alerts from storage system

components, such as storage processors and disks, to appear on affected storage objects, such as LUNs, data stores, and VMs

- Predictive planning to identify low capacity storage pools at risk and determine future capacity upgrades on the relevant storage pools.

Solution

- Storage performance management solution that enables to quickly identify and isolate performance problem, root cause and act quickly. End-to-end monitoring of resources, configuration details, traffic monitoring of the storage devices. Shows trend near real time and proactively alert when crossing the utilization or threshold targets.
- Details of cross site occurrence between storage device from primary and secondary site.
- Threshold settings for the storage resources, and email configurations for above threshold resources and failure updates
- Provides users with simple dashboards to optimally manage the storage environment. The dashboard displays resource and metrics for storage systems and graphs of resource metrics to analyze and make sense of all the data that has been collected and appropriately point out anomalies in behavior

Benefits

- Optimize storage resources with monitoring and prediction based on IOPS and throughput.
- Optimize network cost by monitoring connection traffic, across storage sites (primary & remote) for any cross-links and trigger responsive actions.
- Historical trend reporting of each storage volume performance and predict the future trend for each storage volume performance, for capacity planning with increased visibility into data growth rates and available capacity
- A customizable dashboard for storage administrators helps you optimize performance, simplify operations, and deliver a better service experience. Enhance performance monitoring by track down the source of performance issues and preempt future service disruptions