

# Virtana Storage Observability for Dell Technologies PowerScale

## Essentials

### Optimize PowerScale Environments with Virtana Platform

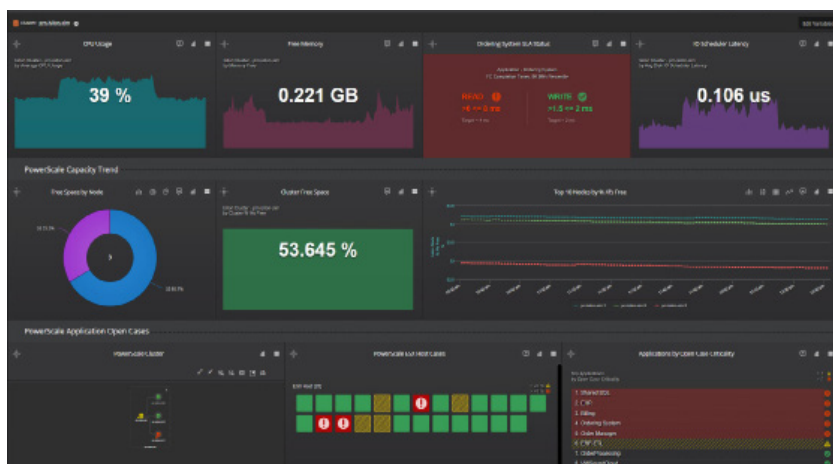
- Understand how application workloads stress storage pool resources
- Gain real-time and historical performance visibility from client to PowerScale node
- Forecast and manage capacity utilization across ports, nodes, and clusters

### Assure Mission-critical Environments at Scale via Unique Capabilities

- Utilize deeper observability across shared infrastructure
- Auto-discover and map application usage of PowerScale clusters
- Manage access to resources based on application business value and service levels
- Leverage out-of-the-box best practices dashboards, reports, and alarms
- Analyze long-term trends via a high performance database of performance and capacity data
- Access automated investigations to dramatically reduce mean time to resolution (MTTR) of tough performance issues

## PowerScale Management Challenges

Most every CXO is looking to Digital Transformation to drive competitive advantage, whether it's through improved customer experience or business insights gained from analytics and machine learning. As a result, assuring the performance of critical data infrastructure has never been more important.



Virtana Platform is the industry's premier solution for assuring infrastructure and storage performance. Virtana unique application-centric approach to storage observability assures deep insights into application performance, consumption, and overall service levels.

Today, customers are deploying PowerScale as a large scale-out storage platform to deliver the agility required by corporate Digital Transformation initiatives, while providing rapid scaling, with enterprise grade data storage resilience.

Virtana is unique in its ability to map, monitor, and manage PowerScale's delivery of the performance sensitive mission-critical workloads that underpin Digital Transformation, at a virtually unlimited scale.

Proactive investigations automate rootcause analysis of performance issues before applications are impacted.

## Storage Observability for Your Hybrid Infrastructure

Virtana Platform starts by mapping PowerScale infrastructure and the applications consuming PowerScale cluster resources. This comprehensive understanding of the data supply chain provides the basis for rich dashboards that deliver visibility and control to administrators, architects, and executives.

**Assure Performance:** By monitoring over 1500+ metrics, along with network and operating system data for Linux, Windows and Solaris in real-time at virtually unlimited scale across any number of PowerScale clusters, Virtana IM combines dynamic, best practice and custom alarms to assure performance and availability.

**Forecast and Proactively Manage Capacity:** Correlate short and long-term consumption trends and be warned proactively of potential capacity issues whether at the client, network, or cluster and nodes.

**Solve Problems Faster:** Automatically triage, diagnose, and provide actionable issue resolution recommendations before your operations teams are even aware of potential impact.

## Hybrid Observability Support for PowerScale Deployments

Virtana Platform provides a full-stack end-to-end visibility of PowerScale clusters, protocol flows, and the applications and servers consuming those resources. This provides comprehensive visibility and unparalleled correlation that makes identification and root cause analysis easy, even for challenging issues. Virtana IM assures the performance, availability, capacity and efficiency of PowerScale clusters regardless of whether it is a NAS (NFS, SMB), Big-Data (HDFS), or other protocols such as HTTP or FTP.

Virtana Platform was built from the ground up as a machine-learning powered analytics platform that goes well beyond the capabilities of traditional AIOps platforms to assure, manage, and balance workloads across PowerScale infrastructure.

Virtana Platform empowers your automation ecosystem by integrating with ServiceNow® incident, change, configuration management processes (including CMDB), while reconciling application understanding from its own infrastructure discovery and application mapping with APM platforms such as AppDynamics and Dynatrace. Virtana storage observability and offers visibility and control of PowerScale environment in minutes, not days.