

Dell EMC PowerScale Workload Optimization with Virtana Infrastructure Performance Management (IPM)

Essentials

Optimize PowerScale Environments with Virtana IPM

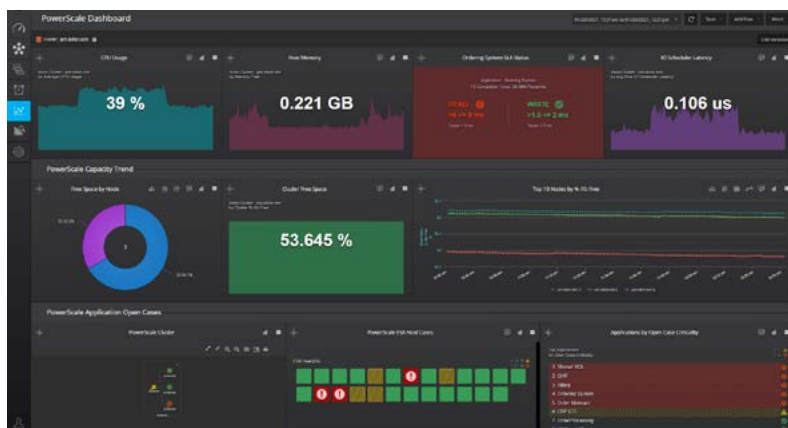
- Understand how application workloads stress storage pool resources
- Gain real-time and historical performance visibility from client to PowerScale node
- Forecast and manage capacity utilization across ports, nodes, and clusters

Assure Mission-critical Environments at Scale via Unique Capacities

- Utilize a single pane of glass 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 IPM is the industry's premier solution for assuring infrastructure and storage performance. Virtana IPM's unique application-centric approach to infrastructure management 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 IPM 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.

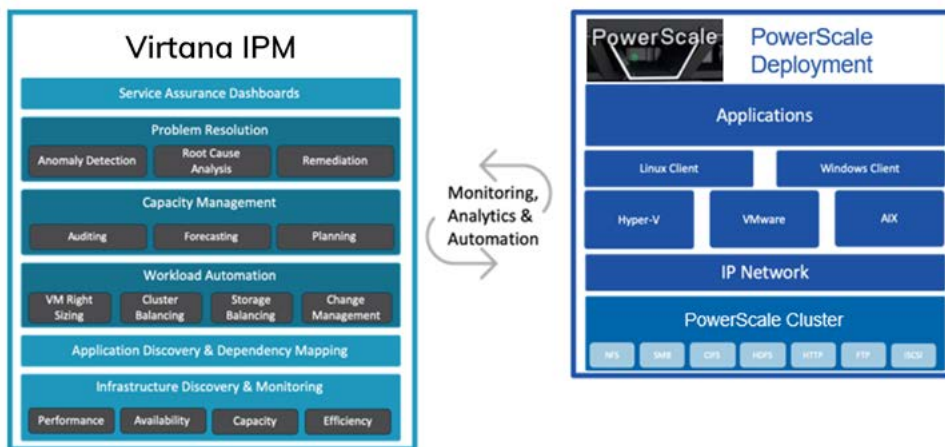
Single-pane-of-glass for Your Hybrid Infrastructure

Virtana IPM 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 IPM 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.



Logical Architecture to Support PowerScale Deployments

Virtana IPM 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 IPM 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 IPM 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 IPM 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 IPM's WisdomPack for Software Defined Storage provides license flexibility, out-of-the-box best practices, ease of deployment, and offers visibility and control in minutes, not days.