MUST™
Visibility / Monitoring / Management

Highlights

- Integrates natively with Windows Admin Center (previously Project 'Honolulu') for a seamless experience from a central console.
- Enhances the Windows Admin Center experience by adding historical data reporting, disk mapping, system alerts, alert services, call home support, and a simplified deployment tool.
- Provides multiple tiers of storage visibility and monitoring.
- Dashboard-level metrics from a single pane of glass.

CANADIAN MUSEUM FOR HUMAN RIGHTS

"With the DataON MUST integration with Windows Admin Center, the team knows at the hardware level, MUST surfaces that up so they can start addressing any issues that may affect the performance or reliability for end users."

Christopher Rivers
Director of Information Technology
Canadian Museum of Human Rights

Infrastructure Visibility, Monitoring, and Management for Windows Server 2016 & 2019

DataON MUST™ (Management Utility Software Tool) provides a high level of infrastructure visibility, monitoring, and management for Windows Server-based hyper-converged systems, networking and storage. Built to support Microsoft's suite of software-defined storage technologies, including Storage Spaces Direct, Storage Replica and Storage Quality-of-Service (QoS), MUST simplifies data center management and helps enterprise customers transition from traditional SANs to a Windows Server-based hyper-converged infrastructure.

MUST can be used through its standalone console or can be used within Windows Admin Center, allowing customers to use both Windows Admin Center and MUST through a single pane of glass.
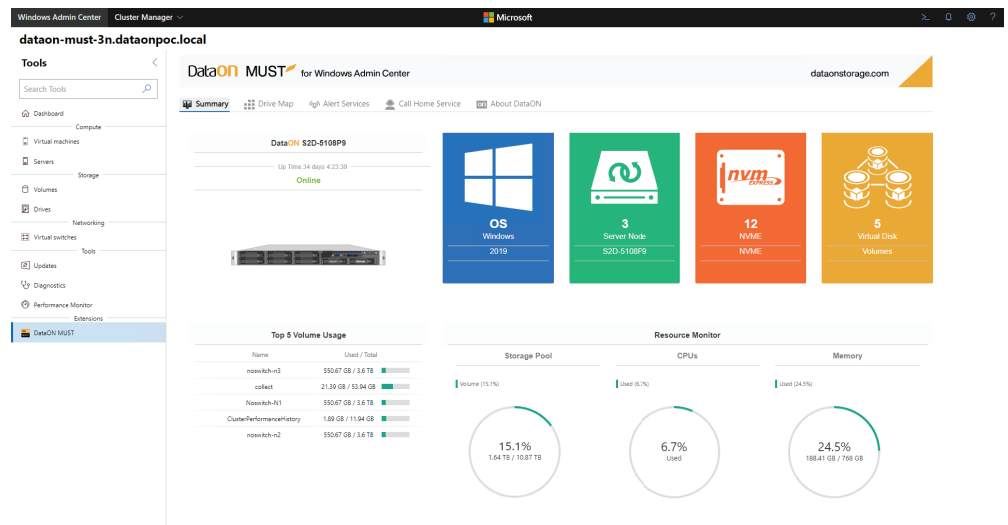
MUST provides multiple tiers of storage visibility and monitoring:

- **Software-Defined Data Center & Hyper-Converged Infrastructure Tier –** Provides system-level information on performance, capacity, hardware inventory and faults/alerts. The dashboard-level view displays operations, analytics, infrastructure health management, storage systems metrics and event logging insights.
- **Systems and Storage Services Audit Log Tier –** Provides detailed logging-level visibility for events, so you can perform root cause analysis and export source data for analytics.
- **Hyper-Converged Cluster/Node Tier –** Provides pool, volume and device-level performance, health and operational analytics for your HCI cluster. This enables you to proactively perform systems maintenance and better understand requirements for workload migrations.
- **SAN-like Call Home Service Support –** Leverages the Health Services faults in Windows Server 2016 & 2019 to automatically email alerts to key contacts. You can also leverage third party SNMP monitoring traps to alert you when you need disk or hardware replacements.

Windows Admin Center

Windows Admin Center is the modernized and simplified tool set for managing Windows Server – it's server management reimagined. Evolving from familiar tools like Server Manager and MMC, Windows Admin Center is a lightweight, browser-based, customer-deployed solution with no agent installation required on target servers, and it comes at no extra cost beyond the Windows license.

MUST enhances the Windows Admin Center experience with expanded functionality:

- **Historic data reporting –** Provides real-time and monthly dashboards of your system performance data including IOPS, latency, throughput on your cluster, storage pool, volume and nodes.
- **Enhanced disk mapping –** Provides a clear disk map of your entire node including number of disks, disk type, location and slot of each drive, and disk health status. MUST now supports over 20 configurations for disk mapping.
- **Alert services –** Provides real-time e-mail alerts to system administrators based on Microsoft Health Service faults. E-mail alerts can be setup based on multiple levels, such as critical, warning, and information.
- **New call home service –** Integrates alert services with Azure Analytics to provide real-time monitoring of DataON solutions for Azure Stack HCI for disk failures or predicted disk failures. MUST can notify system administrators and start the process to send a replacement disk.
- **New diagnostics deployment tool –** Simply click a button to generate a report of your environment, pull your configuration and disk mapping from Azure Cloud, and complete your installation.

Simplified Data Center Management

MUST monitors hardware and software storage infrastructure to identify potential problems. Using an event-driven model for rapid detection with minimal overhead, MUST also provides on-demand access to curated collections of hyper-converged clusters, storage performance, and capacity metrics. The MUST dashboard display is designed to efficiently and dynamically connect the dots to help provide root cause analysis.

Dashboard View

Overview - Displays the type of OS, number of server nodes, type of devices and number of virtual disks. Also displays the storage pool CPU and memory utilization, and volume capacity. Provides system performance data such as IOPS, latency and throughput.

Alerts - Displays three types of alerts: critical, warning, and information. Based on your settings, you will receive information on your enclosure, capacity, cluster, storage QoS, and virtual disks.

Settings

Setup MUST for your active directory, domain, SMTP server, and even leverage the SNMP feature for third party access.

You can automictically notify systems administrators of hardware failure, configuration issues, or resource saturation through MUST's SAN-like call home service.

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About DataON

DataON is a hybrid-cloud computing company focused on delivering Microsoft Azure Stack HCI, on-premise storage system, intelligent edge appliances, and cloud-based Microsoft Azure Services. Our company is helping enterprises and customers who have made the "Microsoft choice" to modernize their IT with Microsoft applications, virtualizations, and data protection through a complete and turnkey experience. With over 650 HCI clusters and 150PB of storage deployed, DataON enterprise-level solutions are designed to provide the highest level of performance, manageability, and security offered. DataON is a Microsoft Gold Partner, Microsoft Cloud Service Provider (CSP), and an Intel Platinum Partner.