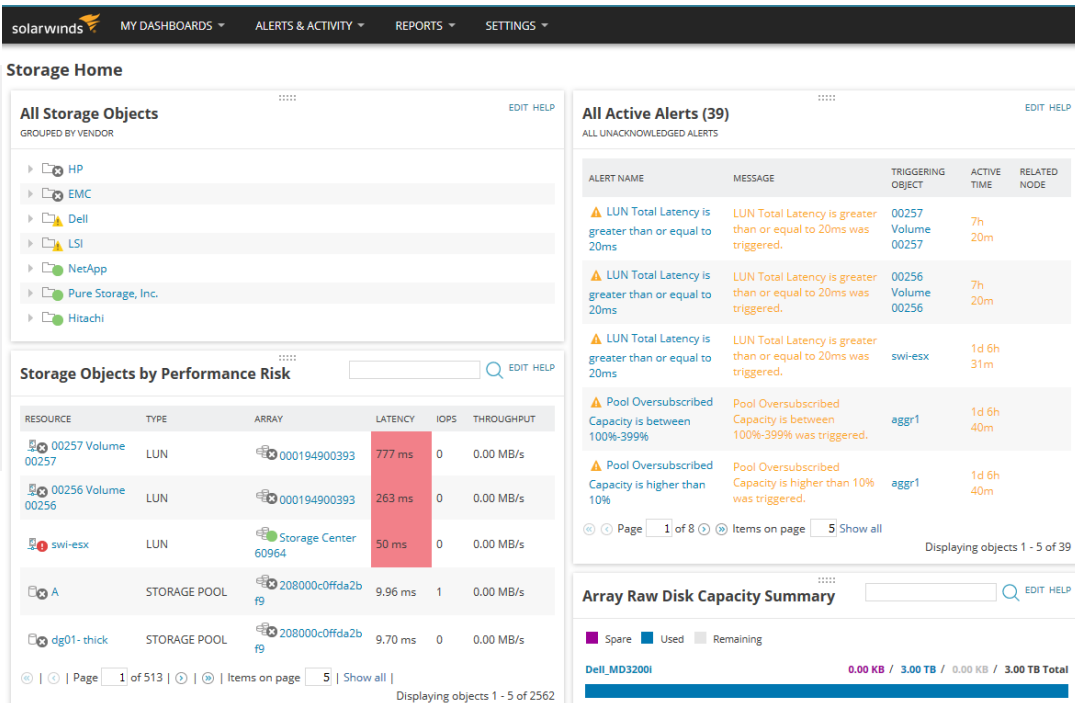


Storage Resource Monitor

Comprehensive multi-vendor storage monitoring



Storage Home

All Storage Objects (GROUPED BY VENDOR)

- HP
- EMC
- Dell
- LSI
- NetApp
- Pure Storage, Inc.
- Hitachi

Storage Objects by Performance Risk

RESOURCE	TYPE	ARRAY	LATENCY	IOPS	THROUGHPUT
00257 Volume 00257	LUN	000194900393	777 ms	0	0.00 MB/s
00256 Volume 00256	LUN	000194900393	263 ms	0	0.00 MB/s
swi-esx	LUN	Storage Center 60964	50 ms	0	0.00 MB/s
A	STORAGE POOL	208000c0ffda2b19	9.96 ms	1	0.00 MB/s
dg01-thick	STORAGE POOL	208000c0ffda2b19	9.70 ms	0	0.00 MB/s

All Active Alerts (39) (ALL UNACKNOWLEDGED ALERTS)

ALERT NAME	MESSAGE	TRIGGERING OBJECT	ACTIVE TIME	RELATED NODE
LUN Total Latency is greater than or equal to 20ms	LUN Total Latency is greater than or equal to 20ms was triggered.	00257 Volume 00257	7h 20m	
LUN Total Latency is greater than or equal to 20ms	LUN Total Latency is greater than or equal to 20ms was triggered.	00256 Volume 00256	7h 20m	
LUN Total Latency is greater than or equal to 20ms	LUN Total Latency is greater than or equal to 20ms was triggered.	swi-esx	1d 6h 31m	
Pool Oversubscribed Capacity is between 100%-399%	Pool Oversubscribed Capacity is between 100%-399% was triggered.	aggr1	1d 6h 40m	
Pool Oversubscribed Capacity is higher than 10%	Pool Oversubscribed Capacity is higher than 10% was triggered.	aggr1	1d 6h 40m	

Array Raw Disk Capacity Summary

Legend: Spare (purple), Used (blue), Remaining (grey)

Dell_MD3200i: 0.00 KB / 3.00 TB / 0.00 KB / 3.00 TB Total

Ultimate end-to-end visibility of your storage infrastructure.

Get a unified view into the performance of your storage environment with agentless NAS and SAN performance monitoring, as well as volumes, RAID groups, storage pools, disks, and more. This may help prevent downtime and can help you to ensure that your storage infrastructure is running at peak performance.

FEATURES

Storage performance monitoring and hotspot detection

Get a unified view into the performance and status of your storage environment to help quickly identify potential issues, and pinpoint which physical or virtual resources are the cause. Designed with a full range of custom and pre-defined alerts, including hardware temperature, fan speed, and power supply.

Automated storage capacity planning

See growth rates, forecast costs and budgetary requirements, which can assist in projecting when capacity will be reached to avoid outages due to full disk errors. Centralized monitoring supports tracking performance over time to identify hot spots, peak hours, and potential outages. Easy to configure reporting can show capacity trends across multiple vendors without the use of spreadsheets.

Increased visibility across your storage infrastructure and beyond

See physical and virtual components in a unified view, including all related infrastructure, to help you to diagnose performance issues faster and more accurately. When used with SolarWinds® Virtualization Manager, you can also see the storage under your VM infrastructure with links to the LUN view from the cluster, ESX®, VM, or datastore view.

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END-TO-END VISIBILITY OF THE APPLICATION STACK

Use Virtualization Manager to access the AppStack™ and PerfStack™ dashboards for end-to-end visibility into application and infrastructure performance, including your storage resources.

AppStack is designed to surface application performance issues and can allow you to quickly determine the cause—whether it’s server, virtual, or storage infrastructure. You can quickly assess the health of your entire environment and troubleshoot specific, interrelated problems—all from one view.

PerfStack presents cross-stack performance data and metrics across your storage arrays, virtualization, applications, systems, and network systems, enabling them over time. This integrated view may help you to better predict, prioritize, and resolve issues before they impact end-users.

SYSTEM REQUIREMENTS

HARDWARE	MINIMUM REQUIREMENTS*
CPU	2.0GHz quad-core
Memory	8GB
Hard Drive	50GB
SOFTWARE	MINIMUM REQUIREMENTS*
OS	Windows Server® 2012, 2012 R2, 2016
Database	Supports Express, Standard, or Enterprise versions of the following: SQL Server® 2012, 2012 SP1, 2012 SP2 SQL Server 2014 or 2014 SP1 SQL Server 2016 SQL Server 2017
.Net Framework	Both 3.5 SP1 and 4.6.2
Web Browser	Microsoft® Internet Explorer® version 11 Microsoft Edge® Mozilla® Firefox® last two versions Google® Chrome® last two versions

NOTE: The minimum server requirements listed assume default configuration. Significantly increasing the poll rate or statistic collection rate could result in additional load on the server, which may require a larger CPU or additional memory.

SUPPORTED STORAGE DEVICES

NetApp:

- » NetApp® E-series
- » NetApp Filers (OnTAP 7-mode)
- » NetApp Filers (Clustered Data OnTAP (CDOT))
- » NetApp AFF
- » NetApp EF

EMC:

- » EMC Unity, EMC® CLARiiON®
- » EMC VNX®
- » EMC Celerra®
- » EMC Isilon®
- » EMC Symmetrix® VMAX®, VMAXe®, DMX®
- » EMC XtremIO®
- » VMAX3 (Flash Family)

Dell:

- » Dell® PowerVault® MD3xxx
- » Dell EqualLogic®
- » Dell Compellent®

IBM:

- » IBM® N Series
- » IBM DS3xxx, 4xxx, 5xxx
- » IBM 6xxx, 8xxx
- » IBM Spectrum™ Virtualize (Vxxx & SVC)
- » IBM Spectrum Accelerate (XIV)
- » IBM (ESS) Enterprise Storage Server®
- » IBM FlashSystem A9000/A9000R
- » INFINIDAT® InfiniBox™ Fxxxx
- » IBM DS 8xxx

Hitachi:

- » Hitachi Data Systems® AMS
- » Hitachi Data Systems USP, USPV, VSP
- » Hitachi Data Systems HUS 100 Blockside, HUS VM Block-side

HP:

- » HP® Nimble Storage AF-Series & CS-Series
- » HP StoreServ® 3PAR
- » HP StoreVirtual®/LeftHand™ P4xxx
- » HP StorageWorks® EVA
- » HP StorageWorks XP
- » HP MSA/P2xxx

Huawei:

- » OceanStor v3/v5 Series
- » Dorado v3 Series

Other vendors:

- » Oracle®/SUN®: StorageTek® 2xxx & 6xxx, Virtual Storage Manager 99xx Series, Flex
- » Oracle/Pillar
- » Xiotech®: Emprise 7000, Magnitude 3D 3xxx and 4xxxr HP StorageWorks® EVA
- » ONStor®
- » Dot Hill® AssuredSAN 4xxx/5xxx
- » Pure Storage®

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SolarWinds provides powerful and affordable IT management software to customers worldwide, from Fortune 500® enterprises to small businesses, managed service providers (MSPs), government agencies, and educational institutions. We are committed to focusing exclusively on IT, MSP, and DevOps professionals, and strive to eliminate the complexity that our customers have been forced to accept from traditional enterprise software vendors. Regardless of where the IT asset or user sits, SolarWinds delivers products that are easy to find, buy, use, maintain, and scale while providing the power to address key areas of the infrastructure from on-premises to the cloud. This focus and commitment to excellence in end-to-end hybrid IT performance management has established SolarWinds as the worldwide leader in both network management software and MSP solutions, and is driving similar growth across the full spectrum of IT management software. Our solutions are rooted in our deep connection to our user base, which interacts in our THWACK® online community to solve problems, share technology and best practices, and directly participate in our product development process. Learn more today at www.solarwinds.com.

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