

VirtualWisdom® ProbeSDS for vSAN

VirtualWisdom ProbeSDS for vSAN allows you to monitor the performance of your vSAN Hyper-Converged or Converged environments; investigating and remediating potential problems before they cause outages.

Extend the breadth of your VirtualWisdom monitoring with vSAN Clusters and pools. When it comes to monitoring Virtual SAN, the following important elements require consideration:

- Monitor the Virtual SAN Cluster
- Monitor Virtual Devices in the Virtual SAN Cluster
- Monitor Physical Devices in Virtual SAN Datastores
- Monitor Resynchronization & Rebalance Operations in the Virtual SAN Cluster
- Examine Default Virtual SAN Alarms
- Triggering Alarms based on thresholds

As a VirtualWisdom Integration, ProbeSDS captures vSAN metrics from vCenter Ops and sends them to the VirtualWisdom appliance to apply problem solving analytics across 100's of metrics.

Introduction

Application performance SLAs are now simple and intuitive with VirtualWisdom' Tier level Application alarm system. Let VirtualWisdom handle application mapping, with true application SLA visibility. Companies can save substantial CAPEX and OPEX dollars with the combined solution installed.

Typical use cases include:

- Are my cache and disk capacity balanced?
- Are my Application SLAs meeting spec?
- What HDD or SDD is impacting my system health?
- Are vSAN application services impacting other tiers of applications?
- Will increasing workloads on my vSAN Cluster impose I/O congestion?

Product Benefits

- *vCenter integration with VirtualWisdom, for single-pane-of glass vSAN optimization
- ProbeSDS and ProbeNetFlow use correlated IP traffic across the supporting networks to pinpoint and analyze traffic congestion that impacts the supporting vSAN network services that mission and business critical applications depend on.
- Detect and resolve slow vSAN application response times.
- Determine if the SDS (Software Defined Storage) disks are impacting application performance.
- Run reports on SCSI disk latency metrics filtered by VM.
- Detect cache usage inefficiencies.
- Maintain full control of the health of your vSAN systems with comprehensive reporting and remediation.

*Requires vCenter 6.5 or later.

ProbeSDS for vSAN Metrics

VirtualWisdom will collect over 100 vSAN-specific metrics including:

vSAN Cache Usage

- War Evictions, Quota Evictions

vSAN Congestion

- DOM CompMgr Congestion
- DOM Client Congestion

SDS Capacity

- Capacity Used

SDS Latency

- DOM Client Avg Read latency
- DOM Client Avg Write Latency
- DOM CompMgr Avg Read Latency
- DOM CompMgr Avg Rec Write Latency
- DOM CompMgr Avg Write Latency

Analytics

- **Event Advisor** provides a prioritized list of relevant events (spikes, relevant performance issues, anomalous behavior, etc.) and time periods requiring attention, ranked by magnitude and duration.
- **Trend-matcher** Leveraging baseline trends and target metrics, it compares against every device over specified timeframes and provides lists of correlated matching devices.

vSAN Entities (reporting levels)

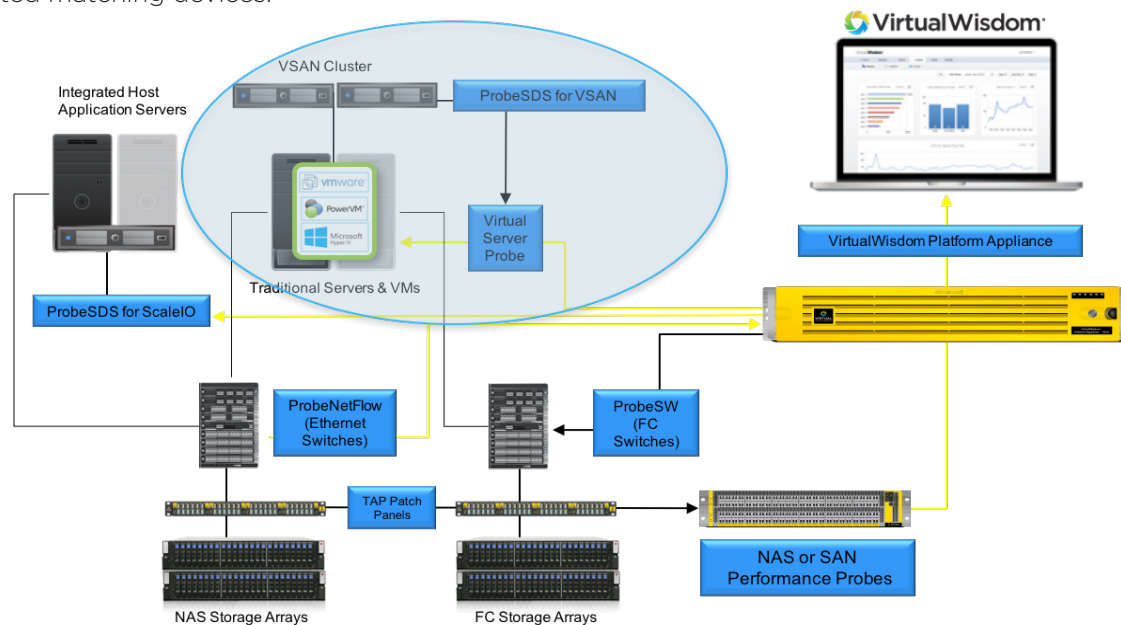
- Disk Group
- ESXCluster
- ESXHost
- Virtual Machine
- Cache/Capacity Disk

Alerting through Thresholds

- vSAN Cache Usage
 - Alerts users when cache is not handling workloads efficiently.
- vSAN Congestion
 - Alerts users when vSAN begins artificially slowing down VMs to protect the storage layer
- SDS Capacity
 - Alerts users before storage capacity issues can impact application users.
- SDS Latency
 - Users can identify expected response times, and be alerted when storage begins to slow down.

Licensing

ProbeSDS is licensed per storage node, but is subscribed on a per cluster basis.



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