VirtualWisdom®
ProbeVM for vSphere®

VirtualWisdom correlates and analyzes vSphere data with other physical and virtual infrastructure metrics to improve application and system-wide performance

Software-Based Virtual Server Probe

ProbeVM for vSphere is an agentless solution that discovers the VMware® estate, and integrates vSphere metrics into the VirtualWisdom platform, optimizing all VM workloads. ProbeVM for vSphere adds deep SAN I/O intelligence and operational visibility to VMware deployments, enabling administrators to model and benchmark ESX™/ESXi™ server performance and optimally balance the deployment of virtual machines based on real-time measurements and I/O performance feedback. ProbeVM for vSphere is unique in its ability to eliminate the risk of using virtualization with I/O-intensive Tier 1 applications.

VirtualWisdom is the perfect complement to vCenter™ as it correlates the vCenter information from the ProbeVM for vSphere in real-time with actual I/O performance data measured by the Virtual Instruments Performance ProbeFC and NAS families, directly from the SAN and NAS infrastructures. Actual measured data from VirtualWisdom enables IT managers to proactively balance application provisioning on virtual machines for maximum performance. This high level of virtual I/O visibility makes risk-mitigated optimization and ESX/ESXi server performance modeling possible, enabling mission-critical deployment of virtualized applications possible by verifying performance-based service level agreement (SLA) metrics in real-time.

Server and VMware administrators who use ProbeVM for vSphere are able to reduce and control server and storage related costs. Unlike vendor tools that are device-specific and report on only one aspect of performance, VirtualWisdom looks across the interrelated device

Product Benefits

- Analyze performance values for CPU, memory, and disk I/O, for any partition during any time frame; all with a higher resolution of data to optimize workload placement

- Achieve a better adherence to, and monitoring of, performance and availability SLAs throughout the virtualized infrastructure

- Reduce the number, frequency, and severity of infrastructure tickets through early detection of I/O performance bottlenecks and transmission faults

- Overachieve on cost to value by lowering overall operating and capital expenditures and increasing utilization of existing assets

landscape—partitions, servers, host bus adapters (HBAs), switches, cables and storage—to optimize application performance and overall utilization of the IT infrastructure.
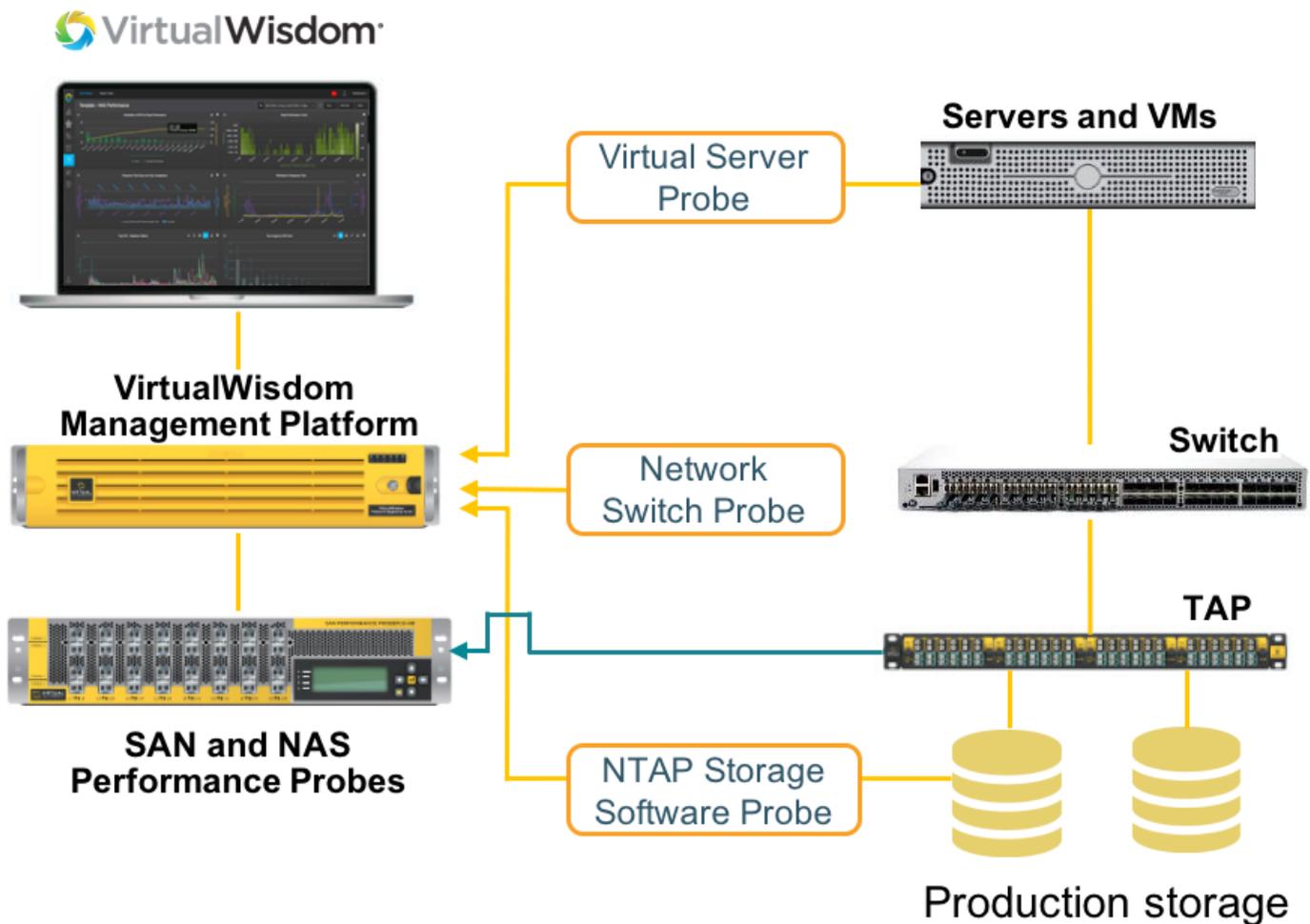
Product Features

- Agentless architecture enables quick deployment with real-time monitoring of partitions, VIOS, and physical hosts

- Correlates and analyzes hundreds of metrics including CPU utilization and status, memory utilization, disk I/O requests and capacity, and utilization

- Enables monitoring, benchmarking, and optimization of VMware vMotion® and Distributed Resource Scheduler (DRS™) for performance and availability based on historical data and trends

- User-defined data collection frequency from VMware vCenter

- Policy-based event notifications

ProbeVM for vSphere at a Glance

VirtualWisdom's enhanced entity-centric discovery, user-interface, reporting, and analytics enables IT managers to proactively balance application provisioning for maximum application performance. This provides the confidence that systems will not slow down or fail.

Entity Discovery: ProbeVM for vSphere will talk to the vCenter API and automatically discover and generate vApps.

Datastore Entities: VirtualWisdom discovers and auto-generates the datastore entities, and gets vCenter metrics for the datastore. A datastore is the virtual file system on which a VM creates its disk(s). A datastore can map to one or more LUNs on the storage array.

The ProbeVM for vSphere is agentless and can be configured to monitor and track I/O from any combination of virtual machines or physical servers at any time. I/O data from the virtual machines and servers are automatically correlated with platform data across the open-systems stack to enable trend analysis, performance modeling, and policy setting.

ProbeVM for vSphere at a Glance

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Entity Discovery: ProbeVM for vSphere discovers the vSphere virtualization infrastructure through the VMware vCenter API, and discovers the following entities:
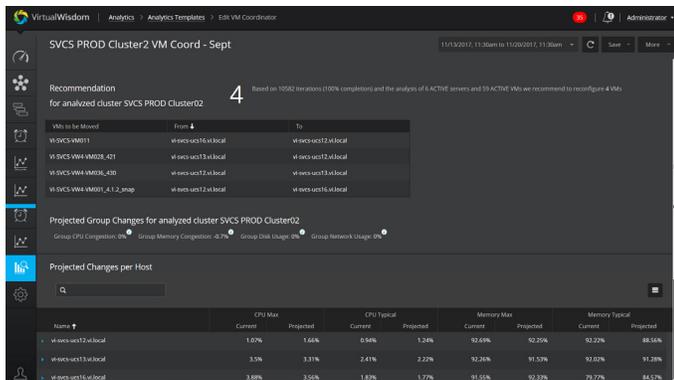
- ESX Hosts
- VMs
- Datastores
- vSAN

Topology View

- Visualize end-to-end infrastructure and gain authoritative insights into vSphere environments
- See all virtual and physical infrastructure components from a vSphere guest, through to its datastore

Reports

- Data from multiple sources can be combined into a single dashboard/report, making trends easy to visualize, and reducing troubleshooting from days to minutes

Alarms

- Case Management framework that enables you to take action based on frequency and urgency of alarms

Probe Management

- The vSphere environment is discovered by VirtualWisdom via the vCenter APIs
- ProbeVM for vSphere is licensed per vSphere Host

The Metrics Generated and Correlated

The VirtualWisdom ProbeVM for vSphere automatically discovers and monitors hundreds of CPU, memory, network, and disk I/O metrics for vSphere virtual machines, physical hosts, and clusters. Metrics collected or generated include:

- Virtual Machine, ESX Host, and Cluster Metrics including dozens of CPU, Memory, Network, and Counters metrics
- Dozens of datastore metrics, such as read/write latency and frequency, aborts and resets, and SIOC aggregated IOPS

The ProbeVM family of software-based virtual machine probes collects and correlates a comprehensive set of metrics that enable IT, server, and VM administrators to optimize the performance, utilization, and availability of their virtualized IT infrastructure. ProbeVM is unique in its ability to eliminate the risk of using virtualization with I/O-intensive, latency-sensitive applications.

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