

VirtualWisdom® ProbeVM Family

VirtualWisdom4 provides unified, end-to-end performance insights across virtualized infrastructures running mission-critical applications

The VirtualWisdom solution is comprised of the VirtualWisdom Management software and dedicated Platform Appliance along with a unique combination of software (ProbeVM, ProbeSW, ProbeNTAP) and hardware (ProbeFC) probes. This fully integrated platform correlates and analyzes data collected throughout the infrastructure – something that was never before possible. This highly granular and comprehensive solution enables customers to start managing performance, stop reactive troubleshooting, and achieve cost optimization.

Software-based ProbeVM Family

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.

The current release of VirtualWisdom4 and the ProbeVM family support VMware vSphere®, IBM PowerVM®, and Microsoft Hyper-V® environments, presenting hundreds of performance and utilization metrics from across the virtual estate.

ProbeVM for vSphere



Delivers deep SAN I/O intelligence and operational visibility to VMware deployments to model ESX/ESXi server performance and better balance the deployment of virtual machines

ProbeVM for PowerVM



Provides greater insight into the virtualization stack to enable proper placement of workloads as well as the intelligence needed to properly size the LPARs

ProbeVM for Hyper-V



Gives greater insight into the virtualization stack to rapidly diagnose cause of application slowdowns and optimize Hyper-V environments

Key Benefits:

- Accelerates deployment with real-time monitoring of virtual machines, physical servers, and clusters across vSphere, PowerVM and Hyper-V environments via agentless architecture
- Collects data and calculates hundreds of different metrics including CPU utilization and status, memory utilization, disk I/O requests and capacity, network requests and utilization
- Enables monitoring, benchmarking, and optimization of virtual machines for performance and availability based on historical data and trends
- Delivers customizable reports and charts that provide visual insight into performance of the entire IT stack
- Case-based alarming driven by thresholds and policy-based event notifications

ProbeVM Family supports industry-leading virtualization platforms

The latest release of VirtualWisdom enables expanded support for more virtualization platforms. This provides unparalleled visibility into the performance, health, and utilization of the entire open systems infrastructure, including VMware, Microsoft and IBM Power Systems™ environments. As a result, customers are empowered to guarantee the performance and availability of their mission critical applications across physical, virtual, and cloud computing environments.

ProbeVM for vSphere is the perfect complement to vCenter™. It correlates vCenter information in real-time with actual I/O performance data measured directly from the SAN infrastructure by the Virtual Instruments ProbeFC family of probes. This high level of virtual I/O visibility makes risk-mitigated optimization and ESX™/ESXi™ server performance modeling possible. This enables mission-critical deployment of virtualized applications by verifying performance-based service level agreement (SLA) metrics in real-time.

With ProbeVM for vSphere, customers can:

- Correlate views on VM, ESX, network, and storage performance
- Predictively optimize VM workload placement across ESX clusters for higher, and more stable, utilization
- Identify trends and patterns of utilization for key metrics like CPU, memory and I/O
- Give insight into real-time storage metrics via correlation with other VirtualWisdom Probes

ProbeVM for PowerVM is an agentless solution that discovers the PowerVM environment and integrates fully with the VirtualWisdom platform to provide LPAR to disk LUN visibility. This provides PowerVM customers with greater insight into the virtualization stack to enable proper placement of workloads as well as the intelligence needed to properly size the LPARs. VirtualWisdom, along with ProbeVM for PowerVM delivers objective and platform-aware monitoring and problem resolution using real-time, deterministic performance information. Also, proactive alerts on trends that indicate emergent performance problems greatly reduce risk.

With ProbeVM for PowerVM, customers can:

- Display System CPU state across the entire PowerVM estate
- Identify busiest LPARs by CPU
- Optimize LPAR CPU Entitlement
- Show disk I/O Mapping and Performance Management

ProbeVM for Hyper-V enables comprehensive cross-domain, real-time measurement capabilities. Server and VM administrators are then empowered to optimize the performance, utilization, and health of their virtualized IT infrastructure running on Hyper-V. This probe offers the ability to correlate Hyper-V CPU and disk metrics in order to improve overall application performance. ProbeVM for Hyper-V enables deep SAN I/O intelligence and operational visibility to Hyper-V deployments, which in turn enables administrators to achieve higher performance and better balance virtual machine deployments based on real-time measurement and analysis of I/O performance.

With ProbeVM for Hyper-V, customers can:

- Correlate views of Hyper-V partitions and storage performance
- Ensure optimum use of server and storage resources
- Identify utilization trends and patterns for key metrics like CPU, memory, and I/O
- Give insight into real-time storage metrics via correlation with other VirtualWisdom Probes
- Rapidly diagnose causes of application slowdowns in Hyper-V environments

Using VirtualWisdom and the ProbeVM family results in significantly higher virtual infrastructure utilization and helps server and VM administrators reduce and control server and storage related costs. VirtualWisdom provides granular visibility into continuous, real-time performance, health, and utilization metrics throughout the open systems stack, driving peak performance and availability while lowering the total cost of infrastructure that supports your mission-critical applications and workloads.



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