

Guaranteeing Cloud Performance with VirtualWisdom

Introduction

It's no longer a question of whether or not organizations will leverage cloud or hybrid cloud strategies—it's a question of when, how, and what will reside in the cloud. A growing number of IT organizations are already taking the plunge into the cloud. Cloud infrastructure options offer improved functionality, reduced operational complexity and capital expenditures, and increased agility to scale workloads up and down as needed. With the growing threshold of data and IT infrastructure, efficient oversight and management are increasingly vital.

The Virtual Instruments Application-centric Infrastructure Performance Management (AC-IPM) platform, VirtualWisdom®, adds a built-in, end-to-end diagnostic framework into cloud infrastructures. VirtualWisdom is the only analytics platform that removes the complexity of managing cloud infrastructure by operating across IT silos, providing unbiased vendor-agnostic views of infrastructure performance, and leveraging applied analytics to avoid performance issues before they can have widespread impact. This diagnostic framework—whether in place on site or delivered as a service—collects, tracks, and correlates system-wide metrics and transforms them into answers and definitive insights. It provides true real-time monitoring and historical trend analysis of overall health, utilization, availability, and comprehensive performance.

VirtualWisdom helps administrators get the most value from their cloud environments while also allowing IT to oversee differentiated cloud services by offering performance-based service level agreements (SLAs). Companies save money by perpetually optimizing their infrastructures, spending fewer resources on service-level agreement violations, and spending less time diagnosing and troubleshooting infrastructure problems.



Why Cloud Service Providers Choose Virtual Instruments

- Enables Migration & Onboarding Services
- Real-time, Multi-Tenant Visibility
- Performance-Based SLA Compliance
- Confirm Service and Infrastructure Tiers
- Proactive Monitoring

The future of the Cloud is really the hybrid cloud—the ability to blend those (on-premise, private and public Cloud) and have a common set of Infrastructure Performance Analytics capabilities such as those provided by the VirtualWisdom platform is absolutely paramount to the future of technology deployments.

Lief Morin,
PRESIDENT OF KEY
INFORMATION SYSTEMS

Cloud AC-IPM Monitoring Benefits

VirtualWisdom can also help differentiate cloud service offerings and optimize infrastructure expenditures through:

- Enabling Migration Services:** Many customers need to do a significant amount of legwork to migrate application workloads to the cloud. Companies can leverage VirtualWisdom to offer effective and clear cloud migration assessment services. This allows departments to function efficiently by leveraging an IPM platform that can be used before, during, and after the cloud migration.
- Real-time, Multi-Tenant Visibility:** The VirtualWisdom entity-based, real-time AC-IPM solution provides agencies with end-to-end visibility into the multi-tenant cloud infrastructure performance and availability. An entity is a grouping of physical resources into a logical construct like an organization, application, device, or even an HBA card.
- Performance-Based SLA Compliance:** VirtualWisdom can baseline and validate existing SLAs and ensure appropriate sizing; service level commitments are still maintained once applications are moved into a cloud infrastructure. The platform also provides the ability to demonstrate that performance meets agency needs without onerous interpretation and dependency on varied infrastructure architectures. This allows IT to instill confidence in application owners and accelerate cloud adoption.
- Confirm Tier of Service:** Many cloud service providers offer premium support service levels because they are easy to measure, track, and deliver. However, offering tiered infrastructure service levels can be more difficult. VirtualWisdom provides the flexibility and granularity required to confidently and accurately monitor and support tiered service offerings in multi-tenant cloud environments.
- Proactive Monitoring:** The monitoring framework below describes three proactive monitoring options.

	Level 1: External Performance Report	Level 2: Internal Performance Report	Level 3: Detailed Operations Report
Target Audience	<ul style="list-style-type: none"> External customer Department level summary 	<ul style="list-style-type: none"> Operations engineering 	<ul style="list-style-type: none"> Service provider operations and engineering
Objectives	<ul style="list-style-type: none"> Service level attainment Incidents summary Applications team collaboration 	<ul style="list-style-type: none"> SLA achievement, system health, trends, exception & incident details, alarms and troubleshooting 	<ul style="list-style-type: none"> Configuration/utilization Performance detail End-to-end correlation
Key Metrics	<ul style="list-style-type: none"> User/Application-based Infrastructure response time, MB/sec, IOPS, IO block size, basic incidents 	<ul style="list-style-type: none"> Level 1, plus correlation of customer metrics to shared infrastructure, more details on each VM, server, switch, array 	<ul style="list-style-type: none"> Level 2, plus detailed metrics of all components for each department

Conclusion

Companies are taking advantage of value-engineered cloud computing to increase organizational agility, improve operational efficiencies, and cut costs. Application-centric Infrastructure Performance Management (AC-IPM) are required to ensure both a successful migration to the cloud and effective utilization of the cloud. VirtualWisdom is the only complete AC-IPM platform in the industry that can help IT staff guarantee performance and availability.

“In an ever changing virtualized environment, the ability to manage, monitor, and guarantee performance to the entire infrastructure is absolutely imperative, the VirtualWisdom Platform provides that visibility—provides those guarantees.”

Lief Morin,
PRESIDENT OF KEY INFORMATION SYSTEMS



Sales
sales@virtualinstruments.com
1.888.522.2557

Website
virtualinstruments.com