

CA Unified Infrastructure Management for Private Cloud



At a Glance

CA Unified Infrastructure Management (CA UIM, formerly CA Nimsoft Monitor) for Private Cloud offers enterprises a comprehensive and sophisticated, yet easy-to-deploy solution for monitoring private cloud environments. With CA UIM, businesses get all the capabilities they need to address the challenges of monitoring private clouds. With these capabilities, organizations can establish optimal service levels, streamline monitoring administration and better track and demonstrate the business value of IT and private cloud investments.

Key Benefits/Results

- Set and keep SLAs for critical IT business services hosted within the cloud
- Maximize utilization of cloud resources in order to support more users, applications and VMs
- Streamline monitoring administration
- Better track and demonstrate the business value of IT and private clouds

Key Features

- Offers complete monitoring views of private clouds—including networks, physical servers, virtualized components, applications and end-user performance
- Automates configuration, deployment and reporting—establishing effective visibility of virtualized environments
- Provides the granular, correlated views needed to verify complex, mission critical business services can deliver the performance and availability required

Business Challenges

Private cloud deployments are becoming increasingly prominent in enterprises today. Organizations seek a range of benefits by employing private clouds to provide automation and self-service capabilities that streamline a host of administrative efforts.

In the past, private cloud deployments were often used for basic applications and services—but today, private clouds underpin complex, mission-critical applications and services. Consequently, establishing optimal service levels is an increasingly critical imperative.

To monitor and manage service levels in private cloud environments, IT administrators need intelligent monitoring capabilities that offer an awareness of the status of physical and virtual elements, and of entire, multi-server application services. However, these objectives can be hampered by many of the inherent characteristics of private clouds:

- **Dense.** Private clouds are built on dense, processing-intensive environments that make it difficult to gain the monitoring visibility required.
- **Dynamic.** The virtualized nature of private clouds, where services and workloads are in a constant state of flux, makes traditional manual monitoring approaches impractical.
- **User driven.** The self-service, automated nature of new service delivery in private clouds makes it difficult to measure, improve and demonstrate the business value of IT services.
- **Complex.** The mission-critical nature of services running in private clouds, and the fact that they are comprised of an array of physical and virtualized resources, demand a detailed monitoring view to ensure requisite service levels are attained.

Solution Overview

CA UIM for Private Cloud represents a single solution that offers extensive monitoring visibility into private cloud environments—with capabilities for monitoring network devices, physical servers, virtualization components, applications and end-user response times. In addition, it can monitor IT services composed of multiple servers and other infrastructure elements. CA UIM also offers support for public cloud deployments and converged infrastructure solutions like Vblock.

With this unified view, IT can:

- **Speed troubleshooting.** With CA UIM, administrators can quickly identify the source of an issue to minimize and shorten outages.
- **Prevent issues.** CA UIM enables IT teams to more efficiently and proactively govern their infrastructures, so they can effectively forecast trends, identify potential issues and prevent them—before they affect users.
- **Improve service levels.** With CA UIM, administrators can better track “noisy neighbor” and under utilization issues, which is critical for establishing and maintaining reliable, responsive service levels within heavily virtualized cloud environments.
- **Support mission-critical applications and services.** CA UIM provides granular, integrated monitoring views of both mission-critical services and multi-server applications across the entire supporting infrastructure. Additionally, CA UIM allows administrators to set and meet SLAs for complex, mission-critical applications and business services.

In addition, CA UIM offers the scalable, reliable and efficient architecture that makes certain the monitoring capabilities IT teams rely on are always available when needed.

Critical Differentiators

CA UIM uses a Message Bus Architecture as a core element that is streamlined, comprehensive and efficient. It enables all

monitoring components to communicate with each other, without direct program-to-program connections and acts as an abstraction layer between the core system and the monitoring probes. This leads to significant improvements in reliability, scalability and development agility.

By offering one solution that effectively monitors the entire private cloud infrastructure—and all the applications and services that run on that infrastructure—CA offers customers unparalleled advantages:

- **Minimized administrative effort.** CA UIM offers automation capabilities that verify continuous, effective monitoring of virtualized environments. CA UIM maintains continuous monitoring coverage—even when VMs are moved or scaled—with no administrator intervention. CA UIM offers automated device discovery, monitoring configuration and deployment and reporting—capabilities that are critical in monitoring dynamic, virtualized private cloud environments.
- **Reduced costs.** By standardizing on a single tool, businesses can reduce costs associated with procuring, implementing and maintaining multiple point solutions—and for training staff to use these solutions.
- **Streamlined reporting.** CA UIM represents a single architecture for gathering and reporting on data from across the private cloud environment. As opposed to aggregating and normalizing data from multiple tools, this affords IT teams with dramatic time savings.

▪ **Enhanced operational efficiency.** Through its open standards, APIs and software development kits for doing custom integration, CA UIM supports an organization's goals for operational efficiency. CA UIM makes it easy for IT organizations to integrate its monitoring capabilities with existing data center management infrastructures, such as service desks, provisioning and orchestration tools and configuration management databases.

Track and demonstrate value. CA UIM offers granular, comprehensive monitoring coverage—and sophisticated capabilities for presenting this data—so IT teams can effectively track, improve and demonstrate their value and the value of their private cloud investments to the rest of the business. CA UIM offers these capabilities:

- **SLA monitoring and reporting.** CA UIM makes it easy to report on SLAs, including historical compliance statistics, real-time compliance status and forecasting capabilities for identifying trends that can jeopardize compliance.
- **Resource usage visibility.** CA UIM offers the unified, detailed views of private cloud environments that enable businesses to accurately track and report on resource usage, to correlate usage across physical and virtual resources and to tie that usage back to specific groups or applications. In addition, CA UIM offers usage metering capabilities that support the business' charge back objectives.

Armed with these capabilities, IT teams can both deliver more value, and better demonstrate that value to the rest of the business.

For more information, please visit ca.com/uim

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