

CA Unified Infrastructure Management for vCloud



At a Glance

CA Unified Infrastructure Management (CA UIM, formerly CA Nimsoft Monitor) for vCloud offers a comprehensive solution for monitoring events, alarms and performance within vCloud® environments. It provides vCloud monitoring for one or multiple virtual data centers, and it tracks network pools to give you a unified view of your entire vCloud environment. CA UIM for vCloud delivers the highest levels of availability and performance of your vCloud deployments.

Key Benefits/Results

- **Automatic discovery, configuration and deployment** – CA UIM automates common vCloud monitoring and data collection tasks so that you can focus on addressing problems as they arise—and preventing them from happening in the first place.
- **Comprehensive coverage for vCloud monitoring** – CA UIM equips administrators with correlated monitoring of elements within the vCloud Director hierarchy, including in-depth visibility of virtual data centers, VMware® virtualized machines and applications and VLANs.

Key Features

- Automated discovery, monitoring deployment, configuration and data aggregation
- Advanced policy templates enable administration of specific virtual data center systems and groups
- Correlated monitoring of elements within the vCloud Director hierarchy
- Comprehensive, multi-tenant views of performance, availability and resource usage

Business Challenges

Organizations employ virtualization because it provides resource efficiency, scalability and flexibility. VMware vCloud Director adds another dimension of flexibility and control to these environments, but it introduces yet another layer of abstraction and complexity. Given their complex and highly dynamic nature—with constantly shifting workloads and resources coming on and offline—vCloud infrastructures present new monitoring challenges that make it difficult to track and optimize service levels. To meet their service level commitments while fully leveraging the benefits of vCloud, organizations need comprehensive, automated and efficient monitoring capabilities.

Solution Overview

CA UIM for vCloud provides the coverage, insights and automation administrators need to practically and efficiently monitor dynamic vCloud Director systems, along with their underlying cloud services and virtualized data centers. At customizable intervals, CA UIM can collect capacity and performance data from across one or more vCloud Director implementations—whether virtual data centers are on premise, running at a service provider or a combination thereof.

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.

Comprehensive coverage. CA UIM equips administrators with correlated monitoring of elements within the vCloud Director hierarchy, including in-depth visibility of virtual data centers, VMware virtualized machines and applications and VLANs. Plus, through its integration with the CA UIM family of monitoring solutions, you can gain a unified view not only of the vCloud environment, but also of the end-user experience, the applications and virtual resources that run in these environments and the underlying physical and network infrastructure.

Powerful, actionable insights. CA UIM delivers multi-tenant views of performance, availability, utilization and usage across multiple vCloud Director-based environments. CA UIM:

- **Speeds analysis and response.** Monitoring data can automatically be imported into CA UIM, which can be used to generate alarms, reports and on-demand portals. In addition, through its integration with CA Cloud Service Management, alarms can automatically generate service desk tickets and be integrated with all associated routing and escalation procedures.

- **Fosters intelligent analysis.** CA UIM provides the capabilities you need to not only track current performance status, but also to use historical data to establish effective baselines, do intelligent trend analysis, forecast resource requirements and detect and preempt issues before they result in outages.

- **Enables usage-based billing.** By offering detailed, resource usage metrics, CA UIM makes it easy to do departmental or client billing based on resource usage.

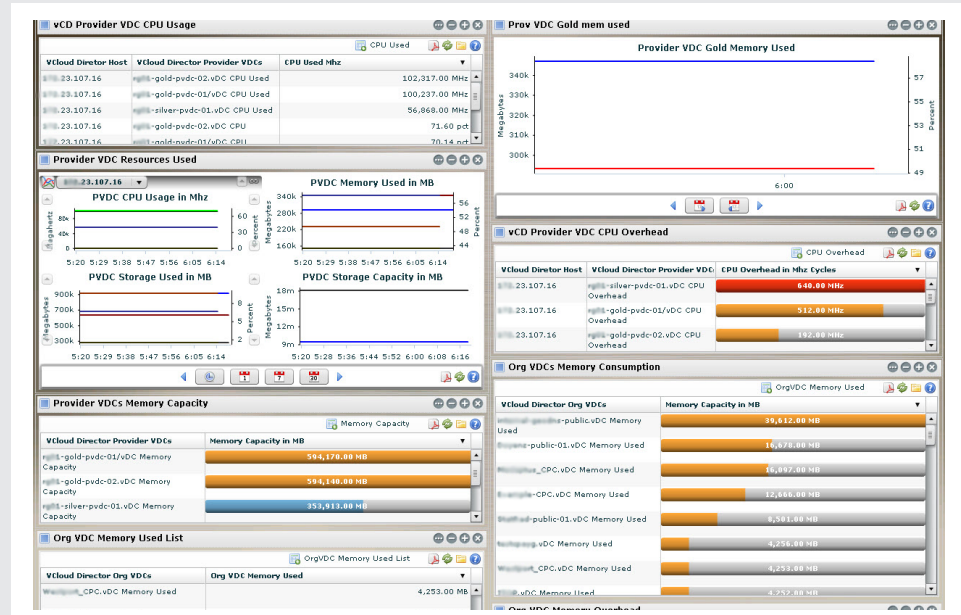
Automated, efficient operation. Given the dynamic nature of vCloud environments, it simply isn't practical for administrators to manually configure, deploy or update monitoring settings each time resources come online, migrate to another physical platform or are decommissioned. CA UIM automates common monitoring and data collection tasks, so you can focus on addressing problems as they arise—and preventing them from happening in the first place. The solution automates system discovery, deployment, configuration and data aggregation, making it practical and efficient to track vCloud environments.

With CA UIM, administrators can use powerful templates for applying policies that are tailored to specific virtual data centers, resource groups and service levels. The solution also offers templates that can automatically collect information for VM guests as they come online, and display the status of VM host resources and associated VM guest resources.

Monitoring capabilities

CA UIM gives you complete visibility to proactively manage and optimize service levels required to maintain high performance and availability of business services, platforms, devices and applications. Unlike other monitoring

CA UIM for vCloud provides at-a-glance insights into availability, performance and resource utilization in all of your virtualized data centers.



vendors that offer individual or loosely integrated point solutions, CA UIM is a single, unified platform that allows you to monitor your entire IT environment.

Comprehensive vCloud coverage

- Monitor one or more virtual data centers
- Monitor multiple vCloud Director resources
- Track network pools, including vApp networks and VLAN IDs and metrics
- Monitor registered vSphere resources, vCenter servers, ESX, ESXi and data stores

Granular, correlated views

- Track resource usage by organizations, groups and users
- Configure monitoring policy templates for each virtual data center
- Segregate tenant-based monitoring across organizational virtual data centers
- Correlate monitoring views of physical and virtual machine relationships:

- Raw consumed resource pools related to virtual data centers
- Relationships to raw virtual pools
- Resources used, overused and underused, and associated analytics
- vApps and resources used
- Virtual device interface monitoring—including resource pool-based categorization and metrics

Efficient administration

- Leverage predefined quality of service monitoring metrics

Actionable insights

- Route logs or faults to CA UIM alarms
- CA UIM Portal views, dashboards and reports

Supported Environments

- Supports vCloud Director 1.0x and 1.5x
- Supports Vblock and FlexPod monitoring solutions

For more information, please visit ca.com/uim

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