CA Unified Infrastructure Management for Docker

At a Glance

CA Unified Infrastructure Management (CA UIM) for Docker enables your IT teams to proactively monitor and manage service levels of your Docker implementations, including container clusters, individual containers, and the services running in those containers. The solution provides detailed quality-of-service metrics, comprehensive usage metering, service-centric insights and sophisticated alarms. With these capabilities, CA UIM delivers the insights you need to meet SLAs, boost uptime and control costs and usage.

Key Benefits/Results

- **Faster issue resolution**. Gain deep, actionable insights into Docker environments and the services running on containers, so your staff can spot and address issues faster.

- **Reduce cost and complexity**. Stop managing multiple monitoring tools, and use a single, unified solution for all your environments.

- **Optimize utilization**. Get actionable insights into your Docker environment for better performance and capacity planning.

Key Features

- **Comprehensive coverage**. Get performance metrics on all the key elements of your IT ecosystem, including Dock, other dynamic cloud environments and traditional IT infrastructures.

- **Flexible dashboards**. Leverage prepackaged dashboards to gain immediate, actionable insights and create custom HTML dashboards for specific uses and users.

- **Predictive, intelligent alarms**. Identify issues proactively and respond quickly and effectively, before the user experience suffers.

- **SLA and trend reports**. Track applications and service performance against SLAs and analyze historical data to find the root cause of issues and better plan for capacity.

Business Challenges

Docker enables organizations to take a modular approach that makes application development, delivery and operation faster and more efficient. Docker allows you to package an application with all of its dependencies into a standardized unit. Docker containers wrap up a piece of software in a complete file system that contains everything it needs to run, including code, runtime, system tools and system libraries.

While Docker-based implementations are providing advantages for a range of organizations, they can present significant challenges for those tasked with managing service levels in these environments. Given the scalable, highly dynamic nature of Docker environments, it can be very difficult to track the performance of hosts and of the services that run on them. As more business-critical application workloads are being moved to Docker, it is becoming increasingly important to ensure that these deployments continue to provide high reliability and performance.

Solution Overview

CA Unified Infrastructure Management (CA UIM) for Docker allows you to proactively monitor and manage service levels in your Docker implementations. CA UIM features comprehensive coverage of Docker environments, including clusters, hosts and containers, and the processes or services running in individual containers. CA UIM offers a number features and capabilities that enable efficient integration of container infrastructures and applications with existing monitoring and logging software.

CA UIM provides granular visibility and intuitive insights into application containers and container environments, including behavior, resource consumption and performance data. These insights can be be used to address compliance and regulatory requirements and support the feedback loop of agile and DevOps implementations. With the solution's prepackaged monitoring templates and bulk configuration capabilities, your IT staff can rapidly configure and deploy monitoring in highly dynamic Docker environments.

CA UIM equips you with a single, unified platform that enables you to monitor and manage your Docker implementations, cloud services and traditional environments. With the platform, you can gain timely alerts and insights that accelerate issue detection and resolution, pre-empt issues and institute tactics for ongoing optimization.

Critical Differentiators

Comprehensive, granular Docker monitoring: CA UIM allows you to monitor your Docker environment, including a single host or an entire Docker Swarm, a native cluster of containers. You can monitor the health, performance and availability of Docker host systems, individual Docker containers and the services running on them. The solution's comprehensive visibility helps your team do faster troubleshooting. CA UIM also enables you to view a summary of all the containers with active monitors on a specific host system. Key metrics collected include resource, host, container, CPU, disk, memory, network and processes.

Rapid, elastic monitoring configuration: CA UIM offers prepackaged templates and bulk configuration capabilities that enable IT staff to rapidly deploy monitoring and efficiently adapt to dynamic Docker environments.

Out-of-the-box and custom dashboards: CA UIM provides immediate insights into Docker environments, presenting key metrics in an actionable format. Users can also create custom HTML5 dashboards that address the unique needs of different IT and development teams.

Robust, predictive analytics: With CA UIM, you can leverage predictive analytics capabilities that help you proactively identify issues before the user experience suffers. The solution presents a prioritized list of problems that represent situations administrators should watch.

CA UIM provides intuitive, comprehensive visibility into dynamic Docker deployments.
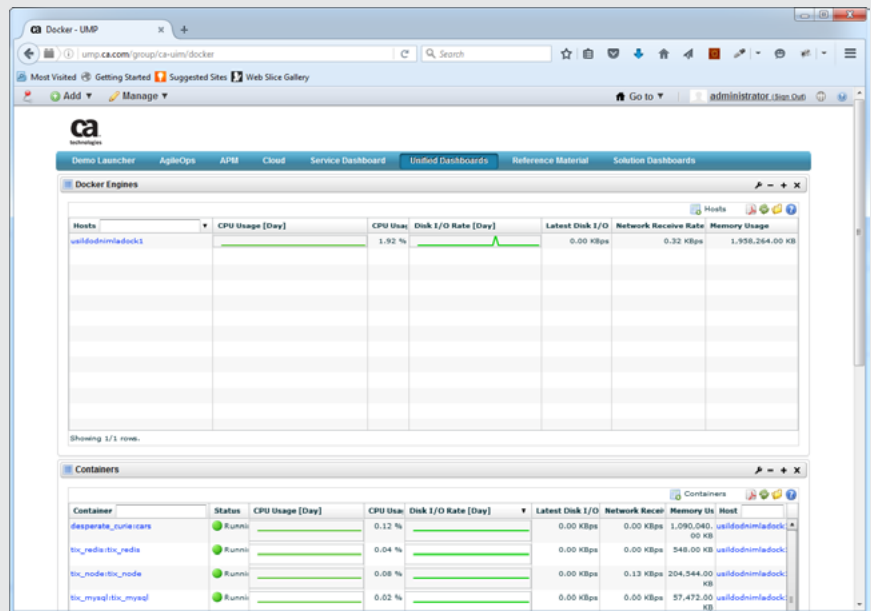
Performance trending: CA UIM enables you to analyze historical performance data for your containers so you can better predict upcoming problems, perform root cause analysis and plan for future requirements.

Correlational analysis: With the solution's correlational analysis, you can identify and track relationships between performance variables and IT infrastructure elements and spot patterns over time.

SLA management: CA UIM features integrated capabilities that enable you to easily create reports and alarms on SLAs for your Docker environments and the services running on them.

Unified, multitenant solution: In addition to Docker deployments, CA UIM supports traditional data centers, virtualized environments and cloud services. The solution provides out-of-the-box support for more than 140 technologies, which eliminates the need to integrate and manage multiple monitoring tools.

Open, flexible architecture and APIs: CA UIM allows you to deploy, extend and automate monitoring to meet the needs of highly dynamic hybrid IT environments.

Intelligent alarms: CA UIM offers sophisticated alarm functionality that enables fast, effective response when issues arise. CA UIM delivers dynamic thresholds that minimize false alarms and improve staff productivity. The solution offers granular, automated alarm routing policies and integrates with leading service desk systems.

For more information, please visit **ca.com/uim**