

CA Application Performance Management for OpenShift



At a Glance

With organizations adopting the OpenShift development platform to accelerate delivery of the modern apps and microservices needed to conduct business at massive scale, ensuring performance is essential. By combining agentless monitoring, dynamic microservice tracking and automated dependency mapping, together with analytics, CA Application Performance Management (CA APM) for OpenShift gives teams the modern monitoring insights needed to optimize app health and deliver a flawless customer experience.

Key Benefits/Results

95 percent rate CA APM's ability to monitor cloud-native and containerized applications in Docker as superior.¹

CA APM helps speed and simplify triage for app performance issues for every app in any cloud or containerized application.²

96 percent of organizations improved visibility into their hybrid cloud environments with CA APM.³

Key Features

Faster time-to-value with agentless, non-intrusive, resource-efficient OpenShift monitoring.

Complete and deep visibility into app health and customer experience across OpenShift clusters, services and Kubernetes Pods.

Optimize app performance with real-time views and maps into container traffic and dependencies.

Accurate root cause and faster MTTR using change impact analysis and assisted triage.

Scales monitoring to thousands and millions of microservices for fast performance data collection.

End alert fatigue, predict anomalies and prescribe improvements to OpenShift deployments with analytics.

Increase DevOps collaboration with experienced-based insight and role-based views.

Business Challenges

OpenShift provides DevOps teams with a powerful platform to rapidly develop, test and deploy apps to the cloud. But while OpenShift accelerates the continuous flow of value to customers, ensuring a high-quality experience is equally important. Cloud development with OpenShift can present many new monitoring challenges:

- OpenShift clusters and services increase the number of components, dependencies and communication flows. Monitoring methods must automatically map these elements and maintain telemetry data when containers move.
- As components proliferate, teams need intelligent visualization and analytics to prevent alert storms, detect anomalies and predict problems. With change occurring fast, teams need to quickly understand its impact on application performance and business outcomes.
- Many factors can impact OpenShift containerized app performance. For faster mean time to resolution (MTTR), teams need to manage from the all-important customer experience perspective and be quickly guided to a problems root cause.

Your organization needs an advanced APM solution—one that delivers effective monitoring for the OpenShift platform without adding additional management cost and support overheads.

Solution Overview

Ensures the power and flexibility of OpenShift is matched with superior application performance and a flawless user experience. CA APM offers many benefits, including:

- **Simplicity and ease of use.** Provides an agentless solution that's easy to install and fast to detect. Go deeper with app instrumentation and transaction tracing.
- **Dynamic microservice tracking.** Provides complete, real-time visibility into the vital signs of OpenShift clusters, services, Kubernetes Pods—together with containers, apps and dependencies.
- **Analytics-driven Insights.** Scales to manage millions of events and alarms, predicting anomalies and problems across containers, clusters and cloud services.
- **Experience and role-based management.** Simplifies complex app topologies into role-based views, allowing teams to quickly map, visualize and share important performance information.
- **Full stack OpenShift monitoring.** Tracks all OpenShift platform components and correlates changes to application performance so teams find and fix problems faster.

¹ TechValidate survey of 22 users of CA Application Performance Management, Jan 31, 2017, [TVID: DC2-5F4-2BC](#)

² TechValidate survey of 65 users of CA Application Performance Management, Jan 31, 2017, [TVID: A12-B8A-ABD](#)

³ TechValidate survey of 46 users of CA Application Performance Management, Jan 31, 2017, [TVID: 037-9D1-399](#)

Critical Differentiators

Available on the CA Marketplace, CA APM for OpenShift offers many advantages, including:

A **flexible and comprehensive solution** provides agentless monitoring, together with deep insight into application health, load and performance for faster time-to-value and more extensive OpenShift support.

Simplified, dynamic monitoring detects and maps new containers, dependencies and microservice communication flows without requiring lengthy, error-prone administration and complex configurations.

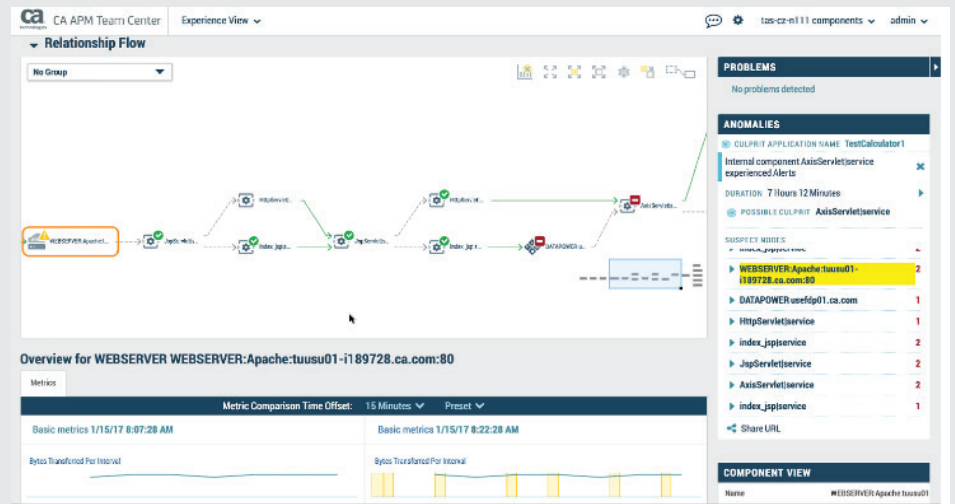
Analytics-driven insights predict OpenShift problems and present the reasons for failing apps and microservices before customer experience is impacted.

Proactive, intelligent controls determine the impact of container changes on application performance across time to help pinpoint app failures across clusters, services and Kubernetes Pods.

Increased app supportability applies predictive analytics to reduce alert false-positives, while prioritizing critical OpenShift events and guiding triage efforts.

Immediate, actionable information with intuitive, role-based interface and experience views that surface critical performance information so DevOps teams can drive improvements across OpenShift deployments.

Without user action or instrumentation, CA APM dynamically tracks and monitors microservices across dynamic OpenShift environments.



Related Products/Solutions

CA App Synthetic Monitor provides synthetic transaction monitoring delivered through a global network.

CA App Experience Analytics delivers insights for optimizing the user experience across web, mobile and wearable devices.

CA Unified Infrastructure Management enables teams to optimize performance across on-premises and cloud infrastructure.

For more information, please visit ca.com/Openshift-monitoring

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