



Taking DevOps to the Next Level with Unified, Cloud-Based Management Solutions

DevOps is an application development and delivery strategy designed to improve synergy between development and operations teams. Many innovative companies are adopting this approach to capitalize on the increased rate of change possible in cloud environments. Agile development teams work in concert with operations professionals to leverage an iterative process that improves service levels throughout the cycle of development, deployment, upgrades, and additions.

While many early DevOps initiatives focused on automating the developer's toolkit, these processes also highlighted the need for operations organizations to automate tasks that ensure a healthy production environment. Knowledgeable collaboration between development and operations teams is essential, and that requires a new model. Today's management activities cannot be based on yesterday's data silos, organizational silos, and manual troubleshooting methods.

Forward-looking DevOps teams put their operational data in one place, and they rely on cloud-based management tools to simplify access and analysis, providing a single source of truth, updated in real-time. Oracle Management Cloud makes this new model possible.

Breaking Down Barriers to Collaboration

Operations professionals need timely, relevant data to troubleshoot problems in production. Development needs this same information to build better applications throughout the upstream DevOps cycle. Both organizations share responsibility for ensuring that new applications thrive in a production setting. These needs are not easily satisfied unless both teams can share data and insight. Without shared instrumentation throughout the development cycle—along with flexible analytics and robust application performance monitoring practices—it is difficult to ensure the smooth rollout of new functionality, which can ultimately lead to lost customers.

Traditional monitoring tools were not designed to be shared across the organization, nor were they designed for applications that change constantly. Today's management solutions must ingest data from end-users as well as from the IT infrastructure. They must span multiple cloud providers and on-premises data centers that encompass presentation layers, application and data tiers, and a variety of integration points. They must also be able to correlate the transaction path from the point of customer interaction all the way through to the IT infrastructure that supports customer requests. And of course, they must be easy to use so DevOps professionals can quickly diagnose problems, combine data from disparate sources, and glean useful insights in a cohesive way.



FOSTER COLLABORATION FOR BETTER MANAGEMENT

- » Automatically correlate monitoring and machine data for diagnostics, capacity planning, operational insight, and business analytics.
- » Free IT personnel from having to share and maintain log files.
- » Create a single source of truth for application owners and DevOps personnel.
- » Store and correlate machine data from many different applications and devices.
- » Enjoy massive scalability: the more data you load in, the more value you derive.

CUSTOMER VIEWPOINT

"We intend to leverage Oracle Management Cloud's ability to provide us with Application Performance Management and Log Analytics for end-to-end visibility across multiple clouds to ensure the highest level of service across our many providers, so that we know about any potential problems before our customers do."

RON CLANTON
DIRECTOR, ENTERPRISE ARCHITECTURE
7-ELEVEN

A Big Data Platform for Monitoring and Analysis, from End-Users to Infrastructure Logs

Oracle Management Cloud is an integrated suite of monitoring, management, and analytics solutions that combines rich cloud services with a unified, scalable, big data platform for analyzing complex application environments. This unique cloud service enables DevOps personnel to collaborate by sharing a unified set of management data across management activities, all stored in Oracle Cloud.

DevOps teams are confronted with many systems of record from application performance monitoring tools, log analytics tools, and other sources. All of them contain valuable data, but they represent only a fraction of the required information. Oracle Management Cloud encourages collaboration between DevOps personnel by providing value to both development and operations teams. It uses a unique method of analysis called *machine learning* to understand the expected behavior of applications. Based on this knowledge, which gets richer and richer over time, Oracle Management Cloud issues alerts as anomalies occur. All DevOps personnel have access to this single source of truth, eliminating the need for war room trouble-shooting. You can leverage Oracle Management Cloud with no change to your infrastructure.

Regaining Control Of Complex Environments

In traditional management settings, the sheer amount of operational data can quickly become overwhelming, especially given the rapid topology changes in applications under management. Even understanding what needs to be monitored and managed has become a daunting task in cloud-based development environments. Oracle Management Cloud can ingest data at enterprise-scale to help DevOps teams cope with the tremendous volume and velocity of machine data and application data. The Oracle solution also includes analytics and machine learning algorithms to automatically discover patterns and adapt to application topology changes. This unified approach empowers domain experts to instrument what they need for their own jobs as well as to collaborate with colleagues in a DevOps context.

Unify Your DevOps Environment with Oracle Management Cloud

DevOps teams are wrestling with the increasing pace of change. New applications often are brought to market with minimal warning, challenging operations teams to keep up. Oracle Management Cloud is designed for heterogeneous application environments running in Oracle Cloud, third-party clouds, and on-premises environments from Oracle and other vendors. Gone are the days of manual application monitoring processes or confusing coordination among IT staff members. Unify your DevOps efforts with proactive management, rapid trouble-shooting, real-time analysis, and deep insights across technical and business events. To learn more, call Oracle or go to cloud.oracle.com/management.

HALLMARKS OF THE ORACLE SOLUTION

- » IT staff doesn't waste time managing the management infrastructure instead of production environments.
- » The solution is built on a modern Big Data platform with a single, unified data architecture, eliminating silos.
- » It "self-learns" application behavior and uses advanced algorithms and statistics to identify anomalies.
- » A topology-aware environment allows Ops teams to drill into a user experience topology to identify root causes.
- » It accelerates time to insight while minimizing configuration and training.

ANALYST VIEWPOINT

"Oracle Management Cloud integrates and normalizes data from a wide range of end user, application, middleware, and infrastructure sources, including many third party cloud services and development environments. This type of solution can significantly improve the ability of DevOps teams to speed up root cause analysis and more consistently satisfy business service-level agreements."

MARY JOHNSTON TURNER
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Integrated Cloud Applications & Platform Services

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