Oracle IT Analytics Cloud Service

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**IT ANALYTICS
CLOUD SERVICE**

Oracle IT Analytics Cloud Service is a software-as-a-service solution that provides you with 360-degree insight into the performance, availability, and capacity of your applications and infrastructure investments. It enables line-of-business executives, analysts, and administrators to make critical decisions about their IT operations based on comprehensive system and data analysis. Organizations can now become more proactive by identifying systemic issues, analyzing resource usage across application tiers, and forecasting future demand for services based on historical performance trends.

Optimize Capacity and Plan for Future Business Growth

If you are an analyst, capacity planner or CIO, you need visibility in to resource usage trends for your critical applications so that you can optimize your cost and plan for future growth. Oracle IT Analytics Cloud Service provides smart resource analysis by leveraging deep monitoring data collected from databases, applications, servers and storage. With Oracle IT Analytics Cloud Service you can:

- Analyze resource trends of your database and middleware systems on a wide range of characteristics to compare it with available capacity
- Identify the top resource consumption and its rate of growth
- Increase resource utilization by identifying under- and over-utilization
- Analyze by different dimensions such as; cost center, lifecycle status, e.g. production or test, platform or software version, and to identify top consumers or excess capacity
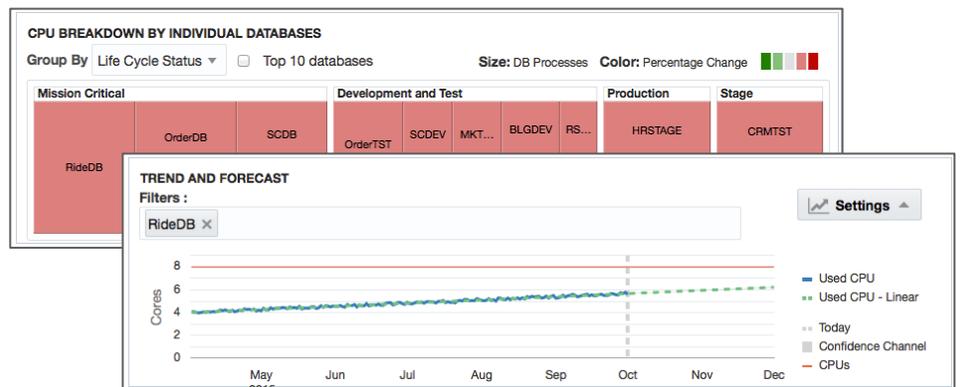- Plan and forecast future resource usage collectively or by individual asset

KEY BUSINESS BENEFITS

- Accelerate time-to-value
- Reduce total cost of ownership
- Optimize infrastructure capacity
- Predict and plan for future demand
- Eliminate systemic performance issues
- Gain insight through custom analysis

KEY FEATURES

- Resource Analytics for application infrastructure
- Performance Analytics for database and application servers
- Search, explore and visualize IT data across the enterprise
- Simple drag-and-drop advanced analytics
- Create and publish tailored dashboards

Figure 1. Resource Analysis for Databases showing utilization across the entire estate and at the individual instance level.

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Maximize Performance and Availability

Current enterprise monitoring systems provide very good visibility to the current and recent health of applications and can help to isolate problems of a single component. However, they lack capabilities to analyze workloads across application tiers, (whether on-premise, or in the cloud) and over longer time frames, such as across business cycles, e.g. product launches or fiscal year close, to identify problem areas.

Performance Analytics for Database

Oracle IT Analytics Cloud Service allows customers to perform historical, comparative analysis to reveal the major bottlenecks affecting enterprise-wide database and associated application performance. Oracle IT Analytics Cloud Service's Performance Analytics for Database capabilities, enables you to examine the aggregate performance by various dimensions in order to:

- Determine the root-cause of recurring systemic problems

- Identify common performance findings across your databases

- Identify performance profile and activity types for a single or group of databases activities to uncover CPU or I/O bottlenecks

- Analyze SQL queries across multiple databases in order to identify which SQL statements are consuming the most database time and to help understand the trend of each query's performance

Performance Analytics for Middleware

Enterprise applications are inherently complex and run on wide variety of systems and versions. Oracle IT Analytics Cloud Service provides out-of-box analytics to identify the most common resource bottlenecks encountered by application servers, such as issues with JDBC connections, Java heap settings or incompatible JDK versions. Oracle IT Analytics Cloud Service's Performance Analytics for Middleware feature allows administrators to spot widespread problems such as garbage collection and data source connection issues and provides actionable insight to resolve the problem.
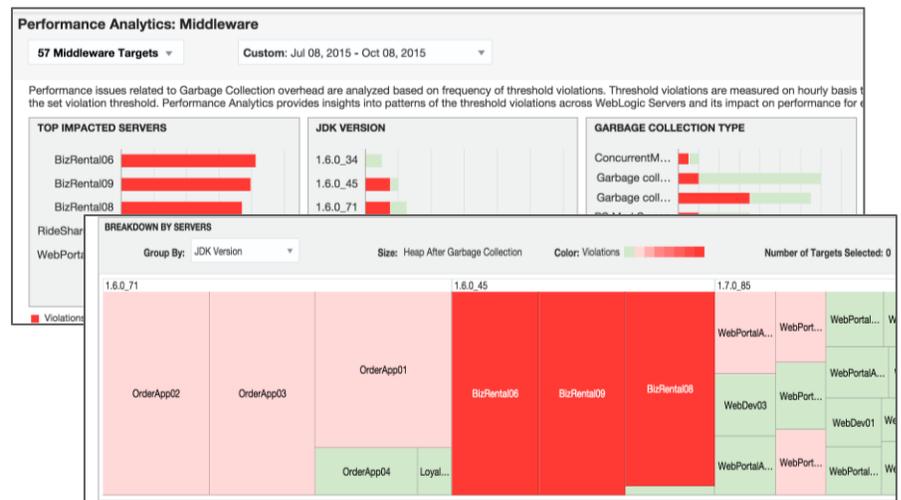

Figure 2. Comparative Analysis of Application Servers showing systemic bottlenecks.

Gain Deep Insight through Data Explorers

Traditional monitoring systems collect terabytes of data such as systems topology, performance metrics, configuration, and events, to name a few. However, few solutions provide capabilities to search browse or perform advanced analytics on the vast array of operational data and over the long term. With Oracle IT Analytics Cloud Service, administrators can take advantage of the solution's interactive dashboards and reports to explore, analyze and gain insight from this data. The solution also allows you to build and publish custom dashboards to key stakeholders, e.g. line of business executives or heads of infrastructure or operations.

Search and Explore Operational Data

Oracle IT Analytics Cloud Service enables you to easily search, browse, compare and contrast systems that are either on-premise or in the cloud.

Using the easy-to-use drag-and-drop interface, the Data Explorers allows you to perform all types of complex analysis within a few clicks, such as:

- Asset analysis such as; distribution of Oracle WebLogic Servers by versions across enterprise-wide hardware platforms

- Configuration analysis of database servers with associated core count, applied patches and installed options

- Perform real-time performance snapshots such as; the top 25 Oracle WebLogic Server workload by requests or heap utilization.

Advanced Custom Analytics

An important and crucial role for analysts is to perform ad-hoc analytics on IT operational data to identify trends or patterns specific to the business unit or business process. Understanding historical trends, correlation between performance and events helps analysts to determine the top consumers of resources or sources of cost inefficiencies. Oracle IT Analytics Cloud Service provides a built-in analytical platform with out-of-the box and user-defined applications to allow users to create and publish tailored dashboards and reports.

Figure 3. Customizable dashboards allow analysts to share insight with key stakeholders.

ORACLE MANAGEMENT CLOUD

- Oracle IT Analytics Cloud Service is part of Oracle Management Cloud

- Oracle Management Cloud (OMC) is a suite of next-generation, integrated monitoring, management and analytics solutions delivered as a service on Oracle Cloud. It is designed for today's heterogeneous environments across on-premises, Oracle Cloud and third-party cloud services. OMC is built on a horizontally scalable big data platform with high throughput data processing for providing real-time analysis and deep insights across technical and business events.

- Data in OMC is automatically analyzed using machine learning and is correlated across all OMC services, thereby eliminating multiple information silos across end-user and infrastructure data, enabling faster trouble-shooting and providing the ability to run IT like a business.

- OMC eliminates the human effort associated with traditional management toolsets while achieving better performance. Autonomously monitor, detect, triage and proactively resolve issues across hybrid cloud environments, including heterogeneous technology on-premises, in Oracle Cloud and in third-party clouds.

TOP THREE CAPABILITIES

- Comprehensive, intelligent management platform

- Zero-effort operational insights
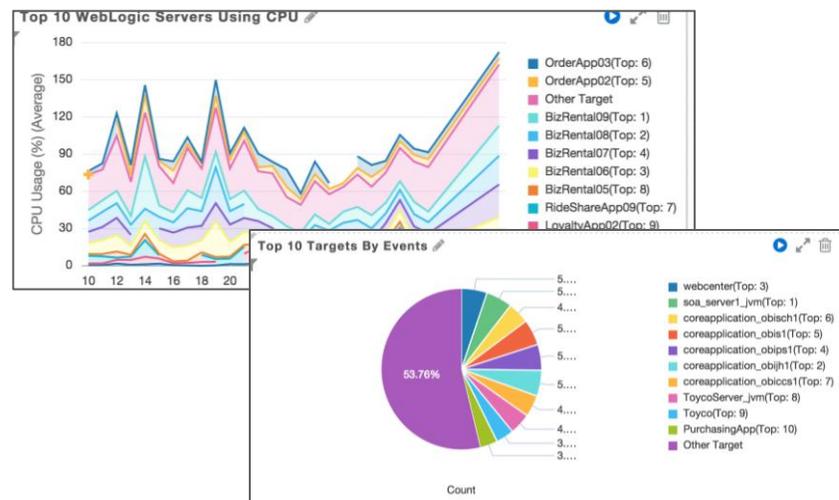
- Automated preventative and corrective actions

Business analysts and administrators can now perform advanced analytics such as trending, what-if analysis, correlation and capacity planning using Oracle IT Analytics Cloud Service's powerful but simple drag-and-drop capabilities. Building reports and dashboards for key stakeholders is done faster and at a faction of the time and effort—helping to eliminate the need for manual data collection mechanisms or expensive third-party tools.

CONTACT US

For more information about Oracle IT Analytics Cloud Service, visit oracle.com or call +1.800.ORACLE1 to speak to an Oracle representative.

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Oracle is committed to developing practices and products that help protect the environment