

Oracle Management Cloud: Log Analytics

Oracle Log Analytics Cloud Service is a software-as-a-service solution that monitors, aggregates, indexes, and analyses all log data from your all your applications and infrastructure - on-premises or in the cloud. It enables users to search, explore, and use machine learning to correlate log data to troubleshoot problems easily and derive operational insights to make faster decisions. It enriches logs with application topology and error categorization. Powerful machine learning capabilities help users rapidly analyse large volumes of log data to identify patterns and anomalies. It is tightly integrated with Application Performance Monitoring (APM) and Infrastructure Monitoring services to provide a comprehensive operational view for IT and application developers.

Key Business Benefits

- Detect problems early
- Troubleshoot problems faster
- Lower investment, faster learning curve
- Work collaboratively
- Build executive Dashboards
- Make faster data driven decisions
- Ensure applications health and availability

Light Touch Logs Integration

Oracle Log Analytics can monitor, aggregate, index, and analyze log data from a wide variety of sources. Simple configuration of data collectors can rapidly enable log data monitoring from ANY log file (including Syslog sources) and securely transport this data to the Oracle Log Analytics service. The data collectors can significantly compress (10:1) and transport the compressed data over a secure communication protocol (HTTPS).

Topology Aware Log Exploration

Troubleshooting problems in today's distributed applications (spanning enterprise data centers, private clouds, and public clouds) has become increasingly complex. While developers, IT Ops, and DevOps teams rely heavily on application and infrastructure logs for troubleshooting, modern applications are elastic and have a dynamic topology. Oracle Log Analytics understands and uses the current application topology to provide an accurate picture of which platform and infrastructure components make up your application and then it enables you to explore logs relevant to the application at the time the problem occurred. Exploring logs relevant to the application makes the troubleshooting process more accurate as it enables users to focus on the right log data in the context of the problem.

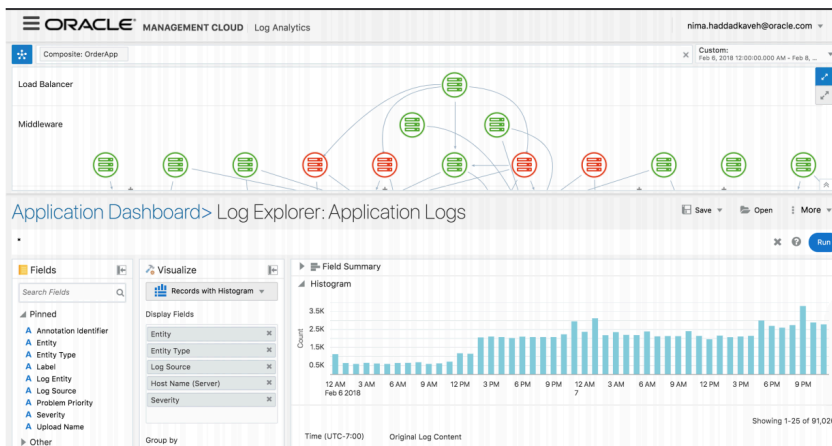


Figure 1 Topology Aware Logs Exploration

Machine Learning Based Pattern and Anomaly Detection

IT Operations and DevOps organizations are inundated with the volume of log data that needs to be analyzed to troubleshoot problems. This is exacerbated by the fact that modern applications are developed and deployed in an agile manner making it difficult to troubleshoot problems by relying purely on domain knowledge and rules. Oracle Log Analytics relies on machine learning to rapidly identify “Interesting” log entries in your log data. These could include patterns or anomalies that exist in your log data. Working with patterns and anomalies makes log exploration more efficient and can help get to the root cause of the problem faster.

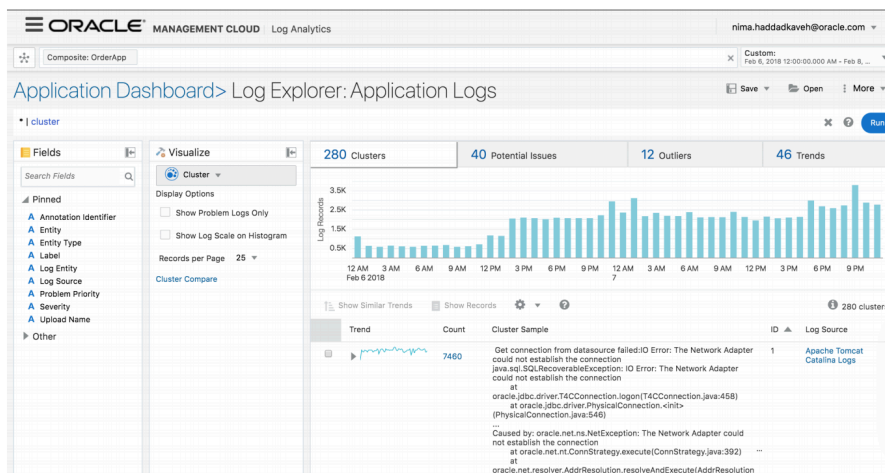


Figure 2 Machine Learning based pattern detection

Dashboards

Dashboards provide operational insight for IT and Business. Stakeholders can get visibility into the health and availability of applications and monitor critical events from one central place using out-of-box and custom dashboards. The rich set of predefined widgets, charts and controls enable extraction of critical operational information from logs and are used to build dashboards that expose critical business metrics. When problems occur, users can drill into the Log Visual Analyzer for troubleshooting. The big-data platform common to all Oracle Management Cloud services enables aggregation of widgets from

across the services to get a 360-degree view of end-user experience (from APM), events, critical errors, business metrics (from Logs), and resource/capacity availability (from IT Analytics) across all your applications and services.

APM Integration

Troubleshooting modern web applications requires looking at a variety of data including end user experience, transaction performance, workload and resource performance metrics and logs from across all software and hardware components. Users can analyze and correlate this wide variety of data by seamlessly navigating from the APM service and the application issue they are working on into Oracle Log Analytics and explore the logs related to the application server, database, and hosts in the context of the workload. Expanding troubleshooting efforts from the APM view into the application and infrastructure logs in the application context and request flows helps accelerate the problem troubleshooting processes.

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