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Oracle GoldenGate Management Pack

Enable monitoring and management of Oracle GoldenGate components using Oracle GoldenGate Management Pack

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Public

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Oracle GoldenGate Management Pack

Oracle GoldenGate Management Pack provides components that enable monitoring and management of Oracle GoldenGate (OGG) components implemented across your business landscape. It has intuitive and graphical user interface options that helps you to improve productivity of your IT staff, leverage existing infrastructure to maximize return on investment, and reduce time to value for continuous availability, real-time data integration, and zero downtime migration solutions.

Oracle GoldenGate Management Pack communicates with core Oracle GoldenGate components to provide a complete, real-time view of all your real-time data integration and replication solutions with Oracle GoldenGate. Oracle GoldenGate Management Pack is designed to take advantage of the low-impact monitoring agent and RESTful APIs that is included with Oracle GoldenGate. The agent or RESTful API collects information – such as, status, lag, and number of inserts, updates, and deletes – from an Oracle GoldenGate replication instance and sends those metrics to the Server components. Using this data, Oracle GoldenGate Management Pack graphically displays your end-to-end replication solutions and provides sophisticated server-side alerting logic.

Key features

- Web-based interfaces for event monitoring and managing Oracle GoldenGate Components
- Supporting GoldenGate Microservices Instance Monitoring
- Integration with latest of Oracle Enterprise Manager
- Alerting Via mail, SNMP, and third-party Integration
- Near zero impact implementation that retains high-performance capabilities of Oracle GoldenGate

Architecture

The Oracle GoldenGate Management Pack extends the common product architecture across both the products, The GoldenGate OEM PlugIn and GoldenGate Monitor.

Oracle GoldenGate OEM Plug-In

The OGG OEM Plug-In coordinates the monitoring of multiple Oracle GoldenGate instances (Classic and Microservices). The OGG OEM Plug-In processes information from EM Agent, which in turn gets the information either from Oracle GoldenGate Monitor agents (if Classic instance) or from GoldenGate REST APIs (if Microservices architecture). The GoldenGate Monitor Agent doesn't require to install, if the GoldenGate Microservices Instance is being Monitored. The OGG OEM Plug-In is tightly integrated with Enterprise Manager to leverages various functionalities like incident and alerts, maintenance black-outs, manages users, history, the display of information, and notifications triggered by events. The communication between OGG EM Plug-In and EM Agent can be secured using SSL communication.

Oracle GoldenGate Monitor Agent

The Manager process for each Oracle GoldenGate Classic instance is associated with an Oracle GoldenGate Monitor Agent that supplies information about the Oracle GoldenGate Classic instance to the OGG OEM Plug-In through EM Agent.

Oracle GoldenGate OEM Plug-In Repository

The OGG OEM Plug-In uses a database as a central repository which can be purged at a user- controlled interval. This repository stores information about users' access privileges to GoldenGate instances, process statuses, monitoring points, alerts, and additional information.

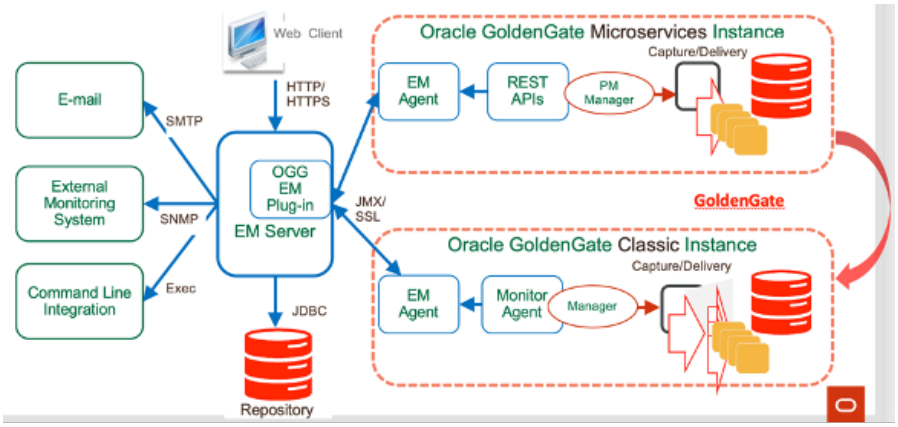

Image 1. GoldenGate Management Pack architecture to Monitor GoldenGate Classic and Microservices Instances

Features

Oracle GoldenGate Management pack has many features that makes the product suite unique across all of its competitors. Major features that increases the productivity are mentioned below.

GoldenGate Microservices Instance Monitoring

The OGG Plug-In supports the GoldenGate Microservices Instance monitoring. All the Microservices services like Admin Server, Service Manager's, etc along with all the extracts and replicates can be monitored using the OGG Plug-In. Distribution and Receiver services shows all the replication path on the screen. The Dashboard shows the easy to use and navigate through all the services using the tree structure. The hybrid GoldenGate environments that includes the Classic and Microservices architecture can be monitored using the OGG OEM Plug-In. The OGG Plug-In shows all the relevant details of Deployments in a separate screen. The GoldenGate Microservices architecture supports the SSL communication. The OGG OEM Plug-In can monitor the SSL enabled GoldenGate Instances.

Customizable alert notifications

OGG OEM Plug-In leverages the advanced level of Incident and Alerts functionality from the Enterprise Manager. The alerts can automatically notify you and external programs when a specified condition exists for a GoldenGate component. OGG OEM Plug-In alerts are viewable from the graphical UI and highlighted in the Solutions screen. Alerts can be triggered with your existing alert infrastructure based on SNMP, email, and command line integration (CLI) for third-party call outs. Users can define suppression intervals so that the product sends and alert's notification only once for a given-time interval. OGG OEM Plug-In gives users full control over defining alert conditions on dozens of metrics, allows definitions to be based on specific Oracle GoldenGate error codes and severities, and provides for compound conditions.

Comprehensive set of Metrics

The OGG OEM Plug-In provides a comprehensive list of metrics including process status, lag, number of inserts, updates, and deletes, and checkpoint position.

Key Benefits

- Archive real-time visibility into service health of your Oracle GoldenGate Microservices & Classic deployments
- Consolidate information from multiple instances of Oracle GoldenGate to improve process management
- Minimize the time to troubleshoot and resolve replication issues
- Monitor Oracle GoldenGate Instances deployed on cloud (Marketplace or Cloud Virtual machines) and on-premises.

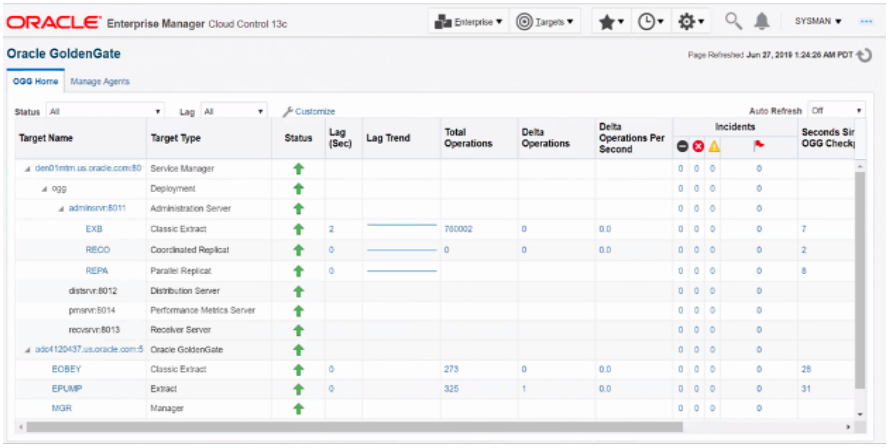

Image 2. GoldenGate Management Pack Dashboard for GoldenGate Classic & Microservices Instances

Automatic end-to-end solution discovery

When you start Oracle GoldenGate processes, the agent registers with the Oracle GoldenGate Monitor Server. The server uses information provided by the agent to link the loosely-coupled components into end-to-end solutions, which are displayed as flow diagrams.

Customizable Views

Complementing the automatic solution discovery capability are customizable views. You can drag and drop various GoldenGate components onto a single view and share them with the rest of your team.

GoldenGate RESTful APIs

Management Pack for Oracle GoldenGate includes the GoldenGate RESTful APIs. It includes dozens of metrics like CPU Times, I/O bytes, Cache Mgr stats, etc.. It is available on various platforms like Windows, Linux, Unix, and zOS.

Related products

The following products are Oracle GoldenGate Management Pack's family products

- Oracle GoldenGate Foundation Suite
- Oracle GoldenGate Veridata
- Oracle GoldenGate
- Oracle GoldenGate for Big Data
- Oracle GoldenGate Marketplace
- Oracle GoldenGate Stream Analytics

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