

Oracle Cloud Infrastructure GoldenGate

Simple. Intuitive. Managed. A real-time mesh platform using
Oracle Cloud Infrastructure GoldenGate

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To be successful in today's competitive environment, businesses must have the latest information available to decision makers at every level of the enterprise. For over 20 years, GoldenGate has been an established leader for trusted Data Fabric architectures. OCI GoldenGate continues to build on this reputation by providing the foundation for a fully managed trusted Data Mesh platform built around data product thinking, decentralized architectures, event-driven pipelines and polyglot data payloads. OCI GoldenGate provides a data mesh platform that can move, unify and shape data in real-time at scale, and is also capable of processing and analyzing this data as it is streamed through the data mesh.

Real-Time Data Mesh Enables Real-Time Business Insight

Oracle Cloud Infrastructure GoldenGate provides a high-performance real-time data mesh platform built on a mesh of heterogeneous data microservices. Oracle Cloud Infrastructure GoldenGate captures and delivers real-time change data to data warehouses, operational data stores, reporting systems and other online transaction processing (OLTP) databases with minimal performance impact. Oracle Cloud Infrastructure GoldenGate can also be an end point for an Oracle SaaS changed data stream allowing real-time Oracle SaaS data integration with downstream systems.

- **Real-Time Data Warehouse.** Provide continuous, real-time capture and delivery of changed data between OLTP and data warehouse systems. Oracle Cloud Infrastructure GoldenGate easily integrates easily with Oracle Data Integrator Enterprise Edition and other extract, transform, and load (ETL) solutions. It is certified to capture from and deliver to Oracle Exadata, Autonomous Data Warehouse, and Autonomous Transaction Processing platforms to enable real-time data warehousing or data consolidation solutions.
- **Oracle SaaS.** Direct integration with Oracle SaaS that delivers real-time change data capture to downstream systems to provide deeper analysis and business insight.
- **Operational Reporting.** Offload reporting activity from production databases that lowers cost of secondary systems with current data for real-time reporting.
- **Operational data integration.** Integrate operational data between OLTP systems in real-time. Enable service-oriented architectures to operate with real-time data by publishing changed data.

Key Capabilities

- High Value Data Products
- Enabled External Data Mesh and Data Products
- Optimized for Oracle Autonomous Databases

Key Use Cases for OCI GoldenGate

- Transaction Replication
- Real-Time Data Warehouse Loading
- Database High Availability
- Real-Time Data Transformation
- Oracle SaaS Integration
- Database Migrations

Broad Topology Support

- On-prem to Oracle Cloud
- Oracle SaaS to Oracle Cloud
- Oracle Cloud Cross Region
- On-prem to Autonomous Database
- Autonomous Database to Autonomous Database
- Non-Oracle Cloud to Oracle Cloud

Maintain Continuous Availability of Critical Systems

Oracle Cloud Infrastructure GoldenGate helps organizations eliminate the downtime caused by both unplanned and planned outages; and improve system performance and scalability. The fully managed service can be easily configured to support the following scenarios:

- **Zero-downtime operations.** Enable uninterrupted business operations during system upgrade, migration, and maintenance activities.
- **Scalable Active-Active architecture.** Synchronize changes made across two or more databases to scale-out workloads, provide increase resilience and near instantaneous failover across multiple geographic regions.
- **Data distribution.** Replicate data for distributed applications in real time across geographies for reliable access to timely data.
- **Query offloading.** Ensure high performance for production systems while supporting read-only activities by replicating data between heterogeneous sources and targets.

Key Benefits

- Enhance decision-making with real-time data
- Fully Oracle managed data mesh service
- Auto scaling of compute resources
- Automated lifecycle management
- Disaster recovery, backup and restore
- Access mission-critical applications without disruption
- Enable high-performance data replication with minimal impact on production system

Conclusion

Oracle Cloud Infrastructure GoldenGate provides a fully managed real-time data mesh platform that helps organizations harness the value of their IT investments and improve business operations by providing continuous access to mission-critical information in real time. Oracle Cloud Infrastructure GoldenGate provides a wide array of continuous availability, disaster tolerance, data integration and streaming scenarios. The fully managed service provides a modular foundation that easily scales to address the high-volume, low-impact data integration, streaming and replication challenges faced by enterprises today.

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