This Online Webinar is organized by Scholar IT Solutions

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Linkedin: https://www.linkedin.com/in/ankit-goyal-0a72999a

- Have around 11 years of I.T. industry experience.
- Oracle GoldenGate Implementation certified professional
- Oracle Autonomous Database certified professional.

ANKIT GOYAL

CONTACT : +91 96635 33950

Have rich experience in following Technologies.

1. Core database
2. Data guard
3. Rman
4. 12c architecture
5. OEM 12c Grid Control.
6. Oracle Golden Gate.
7. BMC Control-M
8. PostgreSQL Administration

Complete ITIL process understanding.

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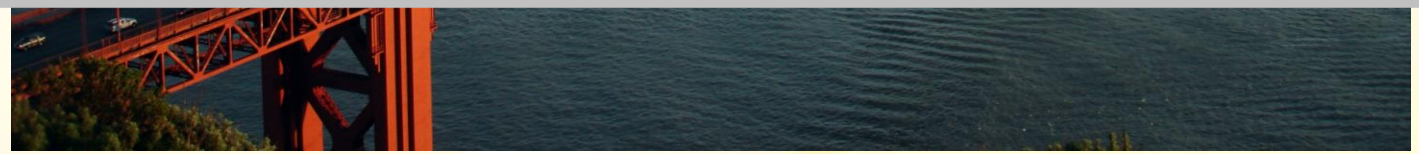
Oracle GoldenGate



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Agenda

- Introduction to Oracle GoldenGate
- Technical Overview
- GoldenGate Processes
- GoldenGate Architecture
- Q & A

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What is Oracle GoldenGate?

Oracle GoldenGate provides low-impact capture, routing, transformation, and delivery of transactional data across heterogeneous environments in real time

Key Differentiators:

Performance	**Non-intrusive, low-impact, sub-second latency**
Flexible and Extensible	**Open, modular architecture - Supports heterogeneous sources and targets**
Reliable	**Maintains transactional integrity - Resilient against interruptions and failures**

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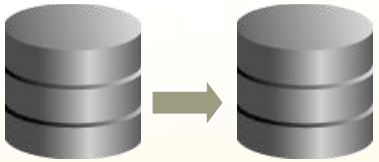
GoldenGate Differentiator: Flexibility

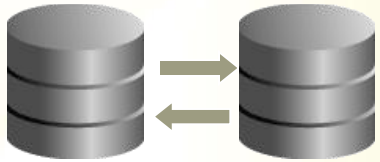
Unidirectional

Query Offloading
Zero-Downtime Migration



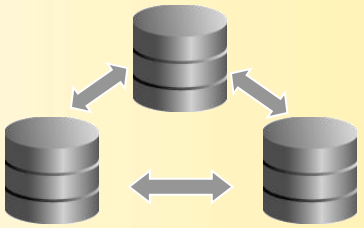
Bi-Directional

Hot Standby or
Active-Active for HA



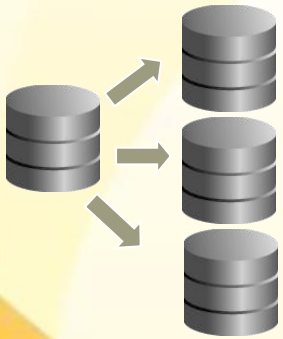
Peer-to-Peer

Load Balancing,
Multi-Master



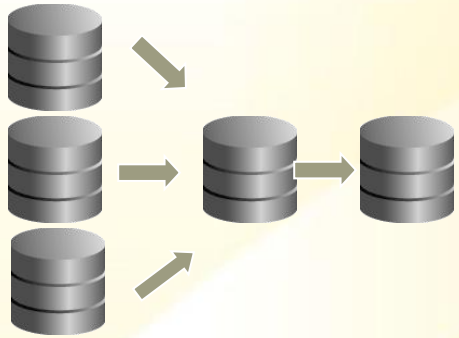
Broadcast

Data Distribution



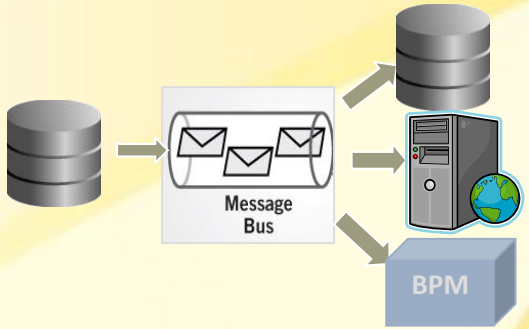
Integration/Consolidation

Data Warehouse



Data Distribution

via Messaging

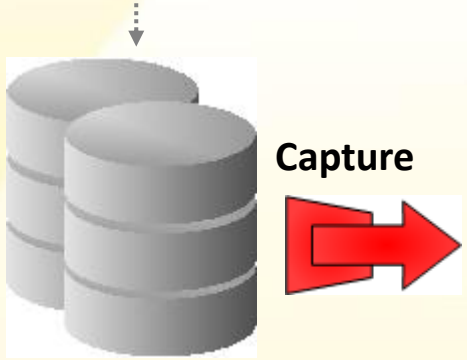


Golden Gate Processes :

1. Manager
2. Capture (Extract)
3. Pump (Extract)
4. Delivery (Replicat)

How Oracle GoldenGate Works

Capture: committed transactions are captured (and can be filtered) as they occur by reading the transaction logs/Redo Logs.



Capture

Source DB

Target DB

How Oracle GoldenGate Works

Capture: committed transactions are captured (and can be filtered) as they occur by reading the transaction logs.

Trail: stages and queues data for routing.

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How Oracle GoldenGate Works

Capture: committed transactions are captured (and can be filtered) as they occur by reading the transaction logs.

Trail: stages and queues data for routing.

Pump: distributes data for routing to target(s).

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How Oracle GoldenGate Works

Capture: committed transactions are captured (and can be filtered) as they occur by reading the transaction logs.

Trail: stages and queues data for routing.

Pump: distributes data for routing to target(s).

Route: data is compressed, encrypted for routing to target(s).

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How Oracle Golden Gate Works

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Pump: distributes data for routing to target(s).

Route: data is compressed, encrypted for routing to target(s).

Delivery: applies data with transaction integrity, transforming the data as required.

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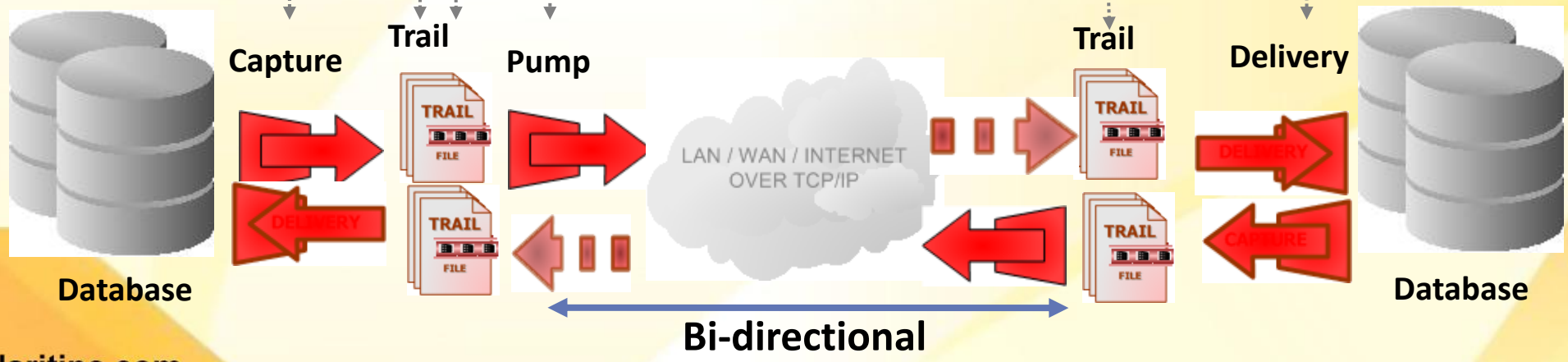

Expanded Heterogeneity

Databases	O/S and Platforms
Oracle GoldenGate Capture: ▪ Oracle ▪ DB2 ▪ Microsoft SQL Server ▪ Sybase ASE ▪ Teradata ▪ Enscribe ▪ SQL/MP ▪ SQL/MX ▪ MySQL ▪ JMS message queues **Oracle GoldenGate Delivery:** ▪ All listed above, plus: ▪TimesTen, IBM System i ▪ Netezza, Greenplum, HP Neoview and any ODBC compatible databases ▪ ETL products	Linux Sun Solaris Windows 2000, 2003, XP HP NonStop HP-UX IBM AIX IBM z Series zLinux

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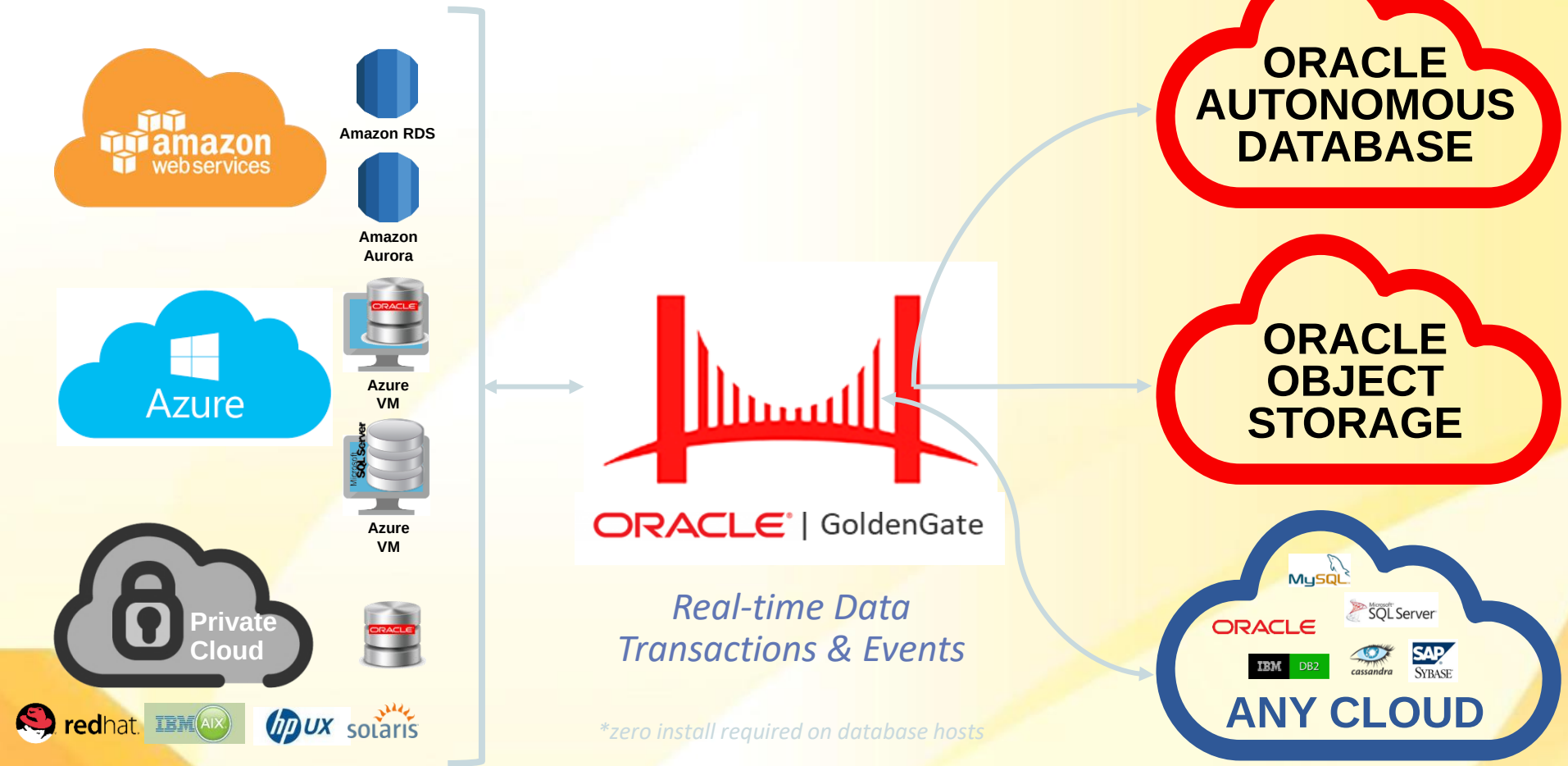
GoldenGate Cloud Options



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OGG & DG Comparison

How Active DataGuard and GoldenGate Comparison

Active DataGuard	GoldenGate
• Complete one-way physical replication • Standby database is an exact copy open read-only • Backups are interchangeable • Integrated automatic database failover • Dual-purpose standby as test system open read-write • Simplest to use, supports all applications and workloads • Transparent to operate — no data type restrictions • Unique protection from silent corruption caused by lost-writes and automatic repair of corrupt data blocks Database • Choice of zero data loss protection or asynchronous • Standby-first patching • Database rolling maintenance and upgrades • Limited cross-platform support	• Logical replication: Active-Active HA, one to many, many to one, subset replication. transformations, etc. • Target is a different database with the same data, it may have a different physical structure or indexing scheme • Extremely flexible, source and target are open read-write • Rich functionality and flexibility also bring additional deployment considerations: performance. management. some data type restrictions, application support. • Standard corruption protection integrated with Oracle Database • Asynchronous logical replication • Flexible options for rolling maintenance • Zero downtime migration and application upgrades • Extensive cross-platform support

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