



Discover Financial Services

Active Data Guard – Increasing ROI



Data Guard Experiences

GOOD AT

- Rock solid inexpensive way to provide DR without the use of often expensive disk replication solutions.
- No limitation on distance between sites.
- No limitation on data types.
- Can be used in conjunction with compression and encryption.

POSSIBILITIES

- Could not use the DR site for reporting unless redo apply was stopped.
- Lost scalability and return on investment opportunities with DR hardware.

Requirements

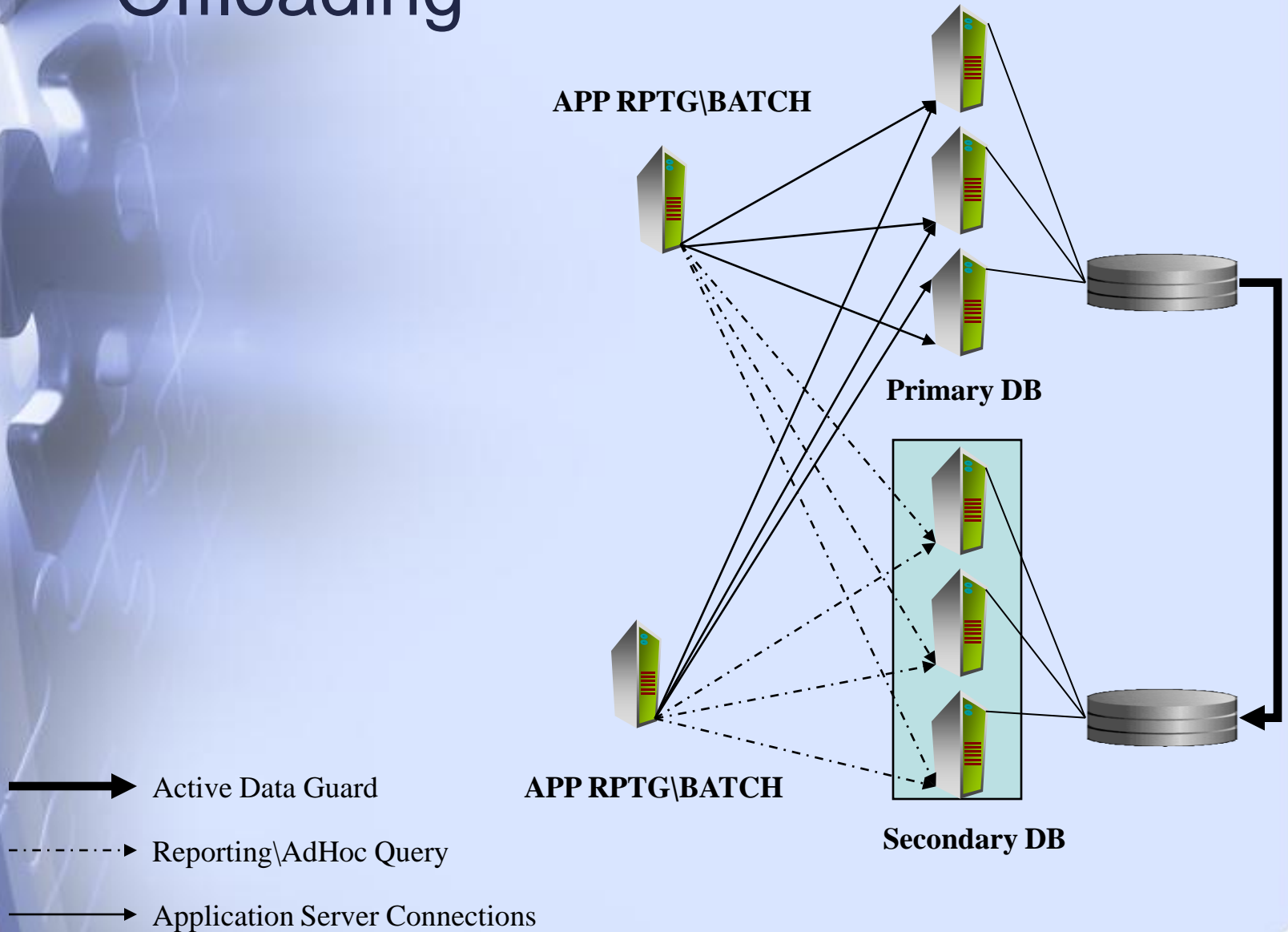
- Address potential production impact of Reporting and AdHoc queries.
- Increase ROI stream of DR assets.
- Create DR fast incremental backups.



Active Data Guard Experiences

- Simple to deploy.
- Recoup capital investment or disaster recovery through more efficient use of hardware.
- Impact of Ad/Hoc queries isolated.
- Business Technology teams able to troubleshoot data issues in real time without impact to online portal.
- Larger run window for reporting jobs\feeds.
- Read only database services change is transparent to application.

Reporting\Ad-Hoc Query Offloading

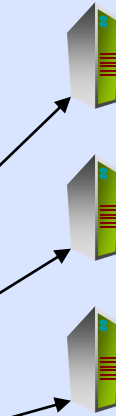
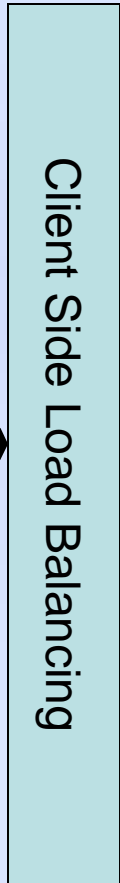


Read Only Transaction Load Balancing

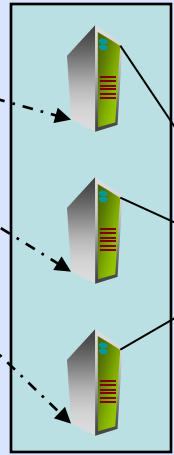
APP Servers



APP Servers

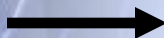
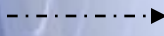



Primary DB



Secondary DB



-  Active Data Guard
-  Read Only Transactions
-  Read/Write Transactions

Lessons Learned

- Define SLA for read only transactions.
- Define Enterprise Manager beacon tests for read only\DR site.
- Use triggers and DB role to manage cluster services during role transitions.
- Use Data Guard Broker.
- Do configure Oracle client side load balancing.