



Case Study: Oracle Active Data Guard Implementation

About the Company

The Organization is a Leading Islamic bank based in Dubai, UAE. The Bank became a Shari'a compliant financial institution with a focus on the UAE's Islamic banking sector. The bank increased its capital to AED 1.50 Billion in 2007 and is on an expansion spree, and as of March 2008 has total assets of AED 14.4 billion. The bank as of the end of 2007 has 15 branches spread across UAE and has more aggressive plans in 2008 including opening another 10 branches. Fitch Ratings has recently assigned Long-term Issuer Default rating (IDR) 'A' with a Stable Outlook, Short-term IDR 'F1', Support rating '1' and Support Rating Floor 'A'.

Business Challenges

As the bank grows, users are also grown. Primary challenge the bank was facing lack of Data Protection as well as Performance of their application and database. The organization wanted a complete solution to protect their data without affecting performance as well provides maximum benefit of Return on Investment.

Nihilent's Role

Nihilent accessed the situation by analyzing the problem area and future requirement. Based on the input received, Nihilent went ahead and did the feasibility study. Nihilent has suggested to Implement Oracle 11gR2 Active Data Guard to achieve Data protection as well offload read-only workload from the production database for better performance and usability of invested hardware and software. Active Data Guard provides the management, monitoring, and automation software to create and maintain one or more synchronized replicas (standby databases) of a production database (primary database). An Active Data Guard standby database is an exact copy of the primary that is opening read-only while it continuously applies changes transmitted by the primary database.



Figure: Active Data Guard Representation

Benefits Achieved

Protection: - Active Data Guard is a loosely coupled architecture where standby databases are isolated from failures that can occur at the primary database.

Availability: - Maintaining an independent replica of a mission critical database provides the ultimate level of high availability.

Return on Investment: - Active Data Guard puts idle systems to work improving systems utilization. It is incredibly efficient - its replication process uses less computing resource, leaving more capacity for production applications.

Performance: - Active Data Guard is the simplest, highest performance solution for maintaining a synchronized independent copy of the Oracle Database.

Confidence: - Active Data Guard can do what no other data protection technology can do for the Oracle Database. It provides unique levels of simplicity, performance, reliability and the security of having an independent, exact replica of the production database.