



Case Study

Oracle RAC implementation and DB migration

| | |
|-----------------|--|
| Customer | Bioinformatics Institute |
| Project | Oracle 10g RAC implementation and database migration from 9i to 10g RAC |
| Duration | One and a half months of planning, design and implementation |

BT Frontline Technologies Pte Ltd has designed and implemented the Oracle 10g RAC database for the Bioinformatics Institute. The complete, integrated stack of Oracle 10g software — Oracle 10g clustering and automatic storage management technology is deployed in this project. The implementation services also include the migration of the existing Oracle 9i database to 10g and into another Sun platform.

A combination of Oracle products and BT Frontline Technologies professional services provided the customer with a high-availability solution as well as staying ahead of Oracle's technology.

Key Challenges

- To provide a high-availability RAC design — no single point of failure, transparent application fail-over and reliability
- Enforcement of authentication and access control for AML application
- Provision of user identity administration and configuration of password policies.

Customer Environment

- **Source:**
 - H/W and OS: 2 Sun 480R servers with Solaris 9
 - Database: 1 Oracle database, Oracle 9.2.0.4 of 8 GB.
- **Target:**
 - H/W and OS: 2 Sun V880 servers with Solaris 9
 - Database: 1 Oracle database, Oracle 10.1.0.3 RAC of 8 GB.

Key Technical Solutions

- Oracle 10g real application clusters with its own clustering stack was used for the high-availability solution
- Oracle automatic storage management feature was used as the vertical solution for the file system and volume manager for the database data files
- Oracle export/import was used for this migration solution.

Duration

- One and a half months of planning, design and implementation.