



Achieving zero downtime with DB2.

Janata Sahakari Bank wanted to ensure 24/7 uninterrupted service for core banking customers and conduct real-time synchronous data replication. The bank achieved both the objectives with IBM DB2 Version 9.5.



Client profile

Janata Sahakari Bank is a Pune-based cooperative bank with operations in western Maharashtra, Marathwada and the Konkan region. Established in 1949, Janata Sahakari Bank is ranked fifth among cooperative banks in India. The bank has many firsts to its name: a cooperative bank to have achieved the scheduled status, a cooperative bank to have become an authorized banker for the Pune stock exchange, a cooperative bank to be awarded with ISO 27001 certification, and a bank in India to have shared its datacenter with other banks. The bank took the technology leap in 2005 and based its core banking solution on Linux-IBM DB2 technology. It was the first time that DB2 technology was being used in the Indian banking sector.

Task

Janata Sahakari Bank had got fully computerized in 1999. The bank was using an offline server for data backup. It would mean pulling the database down for half an hour every time data was being updated. By end-2004, when the bank was introducing core banking, it started looking for a solution that would provide zero disruption of services. The management also wanted to build a disaster recovery center. It was looking for a high availability solution for banking production database and real-time synchronous data replication from production database to the MIS system. The bank moved to Linux-based DB2 technology from IBM in mid-2005. In 2009, the management decided to migrate to the latest version – IBM DB2 Version 9.5.

Solution

IBM offered Janata Sahakari Bank DB2 solution with High Availability and Disaster Recovery (HADR). For real-time synchronous data replication, IBM offered DB2 SQL Replication solution. The bank's datacenter team required technical training to operate and manage the solution. A team from the IBM India Software Lab demonstrated HADR and SQL Replication capabilities to the bank's IT team. After having acquired DB2 8.0 in 2005, the bank has been upgrading the solution, first to 8.2 and now the latest version, 9.5.

Benefits

- HADR ensures data availability 24/7 with minimal downtime
- The IT team can conduct transparent application failover
- The server can provide automatic client re-route with minimal interruption in data processing
- With SQL Replication, the bank can conduct real-time synchronous data replication from production to the MIS system
- The bank has eliminated manual backup and restore methods
- It has made storage savings by reducing data by 50 percent
- The performance of the server has improved significantly
- Time required for data backup has reduced from 2.5 hours to 1 hour 10 minutes a day
- Time required for MIS report processing has reduced from 4.5 hours to one hour a day
- Time taken for sequential file generation from other databases has reduced
- All these have resulted in reduction in response time
- Automatic processes have improved productivity of employees

“We went with IBM as DB2 is easy to manage and is user-friendly. It ensures zero downtime, which is a critical feature for a bank with core banking facility. We have also been able to automate data replication, an otherwise resource-consuming process. The IBM solution is on par with others in the market and is cost-effective.”

Atul Orape,
Head, IT (Datacenter)
Janata Sahakari Bank Ltd.,
Pune.