Xiamen Enjoy Auto Group

Xiamen Enjoy Auto Group improves transaction speeds, while reducing cost with exFlash DIMM

Solution Focus

- Automotive industry
- Database performance
- Online transaction processing (OLTP)

Summary of Benefits

- Reduced I/O latency
- Improved server utilization

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Background

Xiamen Enjoy Auto Group Co., Ltd. (hereinafter referred to as "Enjoy Group"), founded in June 2000, is an automobile-based integrated marketing services company. The firm's business scope spans car sales, vehicle maintenance, spare parts sales, auto finance, used car sales, car decoration, and automobile clubs. For 15 consecutive years the company has been the Xiamen automobile sales leader. In 2014, the company sold a total of nearly 50,000 passenger cars through its 40 dealerships; brands sold include Volkswagen, Skoda, Audi, Lamborghini, Infiniti, Chrysler Jeep, GM, and Ford, among others.

The Challenge

In order to promote business development and better customer relationships, the company implemented a new CRM system, which is an online transaction processing (OLTP) application. As is typical with OLTP applications, each transaction is very short, utilizes high concurrent I/O, and requires a rapid response. If response times are too long, the user experience is negatively affected.

The Solution

In order to address these challenges, the company has deployed a new architecture, which includes:

- Two Lenovo System x3850 x6 platforms as database servers. Each database server is configured with two 200G exFlash™ DIMM (SanDisk® ULLtraDIMM 200GB DDR3 SSDs), and two flash cards for redundancy by way of raid 0
- Two database servers running Oracle RAC clusters, two nodes to achieve high availability exFlash™ DIMM placement of high-frequency data hot spots, including the undo tablespaces and redo log group
- 10Gb Ethernet connection between two servers for fast data sync
- Two Lenovo System x3850 x6 platforms as application servers
- Two Brocade 8GB Fibre Channel switches
- An IBM Storwize V3700 storage system

The Results

exFlash DIMM technology features high-speed, low-latency performance to enhance the integrity of OLTP type applications. This has dramatically improved IOPS hot data, reduced the I/O latency and improved the overall utilization of server resources.