Secure and Flexible Data Connectivity in the Cloud with SQDR

This software developer specializes in connectivity software for the commercial market. Initially, all departments shared data hosted by IBM UDB V9.5 for Windows, but with an increasing number of remote employees, a cloud-based architecture was needed in order to give employees better dependability and fast remote access to company data, such as customer records and technical documentation.

Need

The in-house application needed to be re-architected to provide remote access to employees with reliable and secure internet connectivity. The foremost need of this newly architected system was to have the ability to maintain a local hot backup with no service interruptions. Other requirements included transferring a customer relationship management data application and a service-tracking application to Amazon Web services.

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RESULTS

Remote employees now have reliable, secure 24/7 access to all corporate data

Real-time access to 50,000 customers and data records are instantly accessible

Cloud storage benefits plus authorized access give ultimate flexibility and security
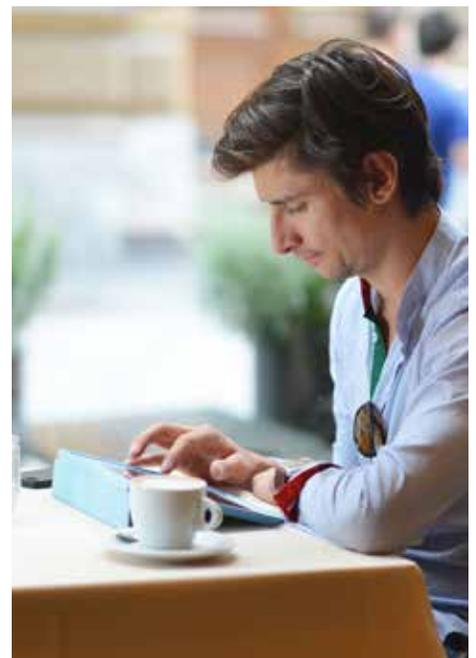
Solution

The solution is comprised of three enterprise systems including StarQuest's **SQDR** which facilitates the exchange and two-way replication of data between networks:

The primary system is an Amazon Web Services EC2 instance running Linux and IBM DB2 UDB for Linux UNIX & Windows

A secondary system is an identically configured local virtual machine (based upon VMWare) running Linux and IBM DB2 UDB

Third is a VMware-based virtual machine running Windows Server 2008R2 and SQDR - the centralized configuration and control system that mediates the exchange of data between the primary and secondary systems

All connections to the primary system use StarSQL for SSL-encrypted connections. If loss of connectivity is detected by any of the three systems, the SQDR automatic recovery feature is triggered and email notifications are sent to the system administrator.

SQDR is installed on both the primary and secondary systems in order to capture any changes to the local database. **SQDR** then collects and applies the changes to the paired systems, in real-time, automatically resolving duplicate transactions. Updates may be applied to any system along with a fully synchronized image maintained on the paired DBMS.

Benefits

Real-time customer support. SQDR monitors incremental changes without taking the primary system offline to perform backup functions. This change data capture feature gives the Customer Support team access to the most recent customer data without delay.

No impact on host system. By decreasing the data load on the local system, the engineers can perform performance stress testing on the local network without contending for CPU resources. StarQuest's Ultra-thin Server™ technology gives engineers the freedom to innovate without worrying about the demands of the current data infrastructure.

Provide only authorized access to sensitive data. The sales team has the confidence to store customer information in the Cloud and trusts that this data will not be lost or replicated without proper authorization. The architecture of **SDQR** supports existing security mechanisms while controlling and limiting access to sensitive information only as permitted by the operating system, database system, and network.

StarQuest has been a leading provider of database connectivity products since 1994. StarQuest products use open standards to maximize compatibility and interoperability within an enterprise network. StarQuest is an active member of The Open Group software industry consortium, which was responsible for the adoption of DRDA as an industry standard for database interoperability. The StarQuest technology takes full advantage of open-standards such as DRDA, SQL, ODBC, and JDBC.

For more information and for pricing information please visit **http://www.starquest.com** or call +1 415-669-9619

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