

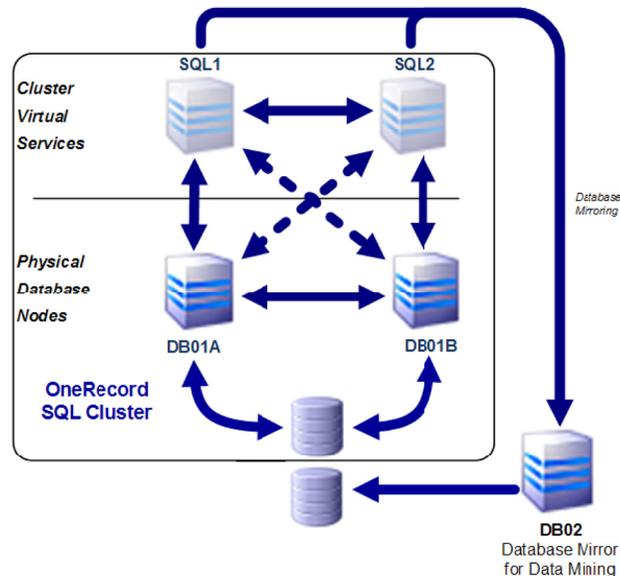


# SQL Availability and Scalability

*“Better, Faster,  
and Cooler...”*

*-RelWare  
Infrastructure*

## Combine Microsoft SQL Server 2008 with OneRecord to Achieve Unparalleled Scalability and Availability



### OneRecord Availability with SQL Clustering

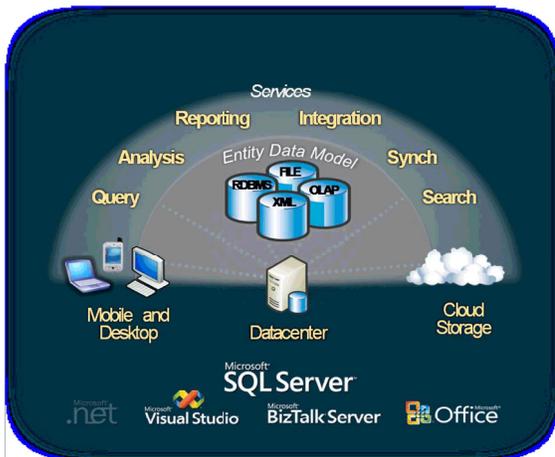
OneRecord has many databases for storing of the vast amount of data created due to the extensive capabilities of the application. To support these databases, while providing failover capabilities and optimal performance, RelWare uses a two-node, two-instance failover cluster configuration. Two highly-specified physical servers are clustered and each resulting Virtual Cluster service is responsible for processing requests for a subset of the databases.

In the case of a failure with either of the database servers, the virtual service for the second server automatically takes over as the primary virtual service for all databases until the unavailable database server comes back online. This results in no downtime or data loss.

In addition, a third database mirror server provides a platform for real-time data mining capabilities without impacting performance on the primary database cluster. This third server also provides the ability to keep the OneRecord application available in the catastrophic event of losing both SQL servers. Minor downtime would be necessary for the switchover, but this downtime would be insignificant compared to that which would be necessary to rebuild the SQL server cluster before application restoration.

### Scalability

Microsoft® SQL Server® 2008 takes advantage of 64-bit technologies to support even greater scalability of a SQL server cluster. It is now possible to scale up server hardware without stopping database services with the Hot-Add Memory and CPU capability. Using SQL Server 2008 in conjunction with Windows Server® 2008 allows for up to 8 processors and 2 Terabytes of RAM.



### Microsoft Data Platform Vision

A variety of factors are converging to create an information storage explosion. Enabled by new types of information, such as digitization of images and video, and sensor information from RFID tags, the amount of digital information within an organization is mushrooming. Growing regulatory compliance and globalization require that information be stored securely and available at all times. At the same time, the cost of disk storage has dramatically decreased, enabling organizations to store more data per dollar invested. Users must quickly sift through mountains of data to find relevant information. Furthermore, they want to use this information on any device and with the programs that they use every day, such as Microsoft Office System applications. Managing this data explosion and the increase in user expectations creates numerous challenges for the enterprise.

The Microsoft data platform vision meets these needs by providing a solution that organizations can use to store and manage many types of data, including XML, email, time/calendar, file, document, geospatial, and so on, while providing a rich set of services to interact with the data: search, query, data analysis, reporting, data integration, and robust synchronization. Users can access information from creation to archiving on any device, from a server to a desktop or mobile device.

Microsoft® SQL Server® 2008 delivers on this vision.

### Running Microsoft SQL Server 2008 on Windows Server 2008

Separately, Windows Server 2008 and SQL Server 2008 provide compelling benefits that can deliver real improvements to your IT environment and justify the decision to upgrade. The combination of SQL Server 2008 and Windows Server 2008 offers enterprise IT administrators and professional developers a superlative platform for mission-critical applications together with enhanced end-to-end security, management, and development capabilities.

### Scaling Up with SQL Server 2008

Server consolidation, large data stores, and complex queries require physical resources to support the various workloads running on a server. SQL Server 2008 has the capability to take full advantage of the latest hardware technologies. Multiple database engine instances and multiple analysis services instances can be installed on a single server to consolidate hardware usage. As many as 50 instances can be installed on a single server without compromising performance or responsiveness.

### Scaling Out with SQL Server 2008

In addition to scaling up individual servers to support growing data environments, SQL Server 2008 offers tools and capabilities to scale out databases to increase performance of very large databases and to move the data closer to the users.

### About RelWare Technology

At RelWare, we realized in 1998 that the Internet, and specifically, Web-based technology was the future. We built our company with the continued motto: "Every application is a Web application." This meant that anytime we looked at writing a new application, we first asked ourselves, "Can I write this as a Web application?" What we soon found was the answer was invariably "Yes". . .every time.

It has been 10 years since we started, and we are still saying "Yes". . .every time.



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