

Lenovo Database Configuration

for Microsoft SQL Server OLTP – SR650

Reduce time to value with an Intel Select Solution verified hardware configuration

Online Transaction Processing Solution

The volume and complexity of data is increasing everywhere, and the ability to use it is becoming more important for organizations across industries. Digital transactions and experiences are expected to be available across geographies and time zones. Today the data generated by those millions of interactions touches every device, application and process.

As one of the fastest growing transactional database platforms, Microsoft SQL Server deployments are becoming increasingly critical to organizations. They are used in everything from enterprise operational databases to business mission-critical applications, including enterprise online sales transactions, finance management and business intelligence. When deployed on Lenovo ThinkSystem servers, Microsoft SQL Server is the optimal transactional database for these applications, with breakthrough transactional performance, end-to-end protection, simplified management and support for high availability requirements.

Microsoft SQL OLTP on the Microsoft Windows Server Operating System

To address these demanding database applications, Lenovo has developed a highly resilient and cost effective transactional database solution. This solution utilizes Microsoft SQL Server 2017 database software deployed on Microsoft Windows Server 2016 Standard operating system without server virtualization. This solution is based on the Intel Select Solution specifications and performance results have been verified by Intel.

This solution is based on the Lenovo ThinkSystem SR650 server. It is deployed with the Enterprise Edition of Microsoft SQL Server 2017. The server configuration in this solution is optimized to deliver extreme transactional database performance. To maximize application reliability, this solution is deployed in a two server high availability configuration.

This Lenovo database configuration for Microsoft SQL Server OLTP is methodically tested and tuned to save you months of configuration, setup, testing, and tuning. With this offering from Lenovo, you can complete the following tasks:

- Optimized system that is tuned, tested and approved as an Intel Select solution
- Buy all the hardware that you need from only one vendor including servers, storage, and networking
- Select from different levels of performance, scalability, and price to suit your business needs

Highlights

- Reduce time to value with a pretested hardware configuration
- Reduce TCO through better performance, rapid deployment and advanced hardware
- Optimize cost and performance with a Lenovo ThinkSystem SR650 server configuration that has been verified by Intel via the Intel Select program
- Available with Microsoft SQL Server 2017 Enterprise Edition

Lenovo ThinkSystem SR650 servers for a high performance OLTP solution



Powered by Lenovo ThinkSystem SR650 Servers

The Lenovo ThinkSystem SR650 server serves as the compute/storage nodes for this solution. This 2-socket high performance server is energy efficient and enables the deployment of a cost effective transactional database. It features the latest Intel processors and supports industry leading high IOP flash storage options. The 2U ThinkSystem SR650 high capacity server utilizes high-volume on-board storage, eliminating the need for attached storage to support large clusters.

Why Lenovo

Lenovo is a leading provider of x86 servers for the data center. Featuring rack, tower, blade, dense and converged systems, the Lenovo server portfolio provides excellent performance, reliability and security. Lenovo also offers a full range of networking, storage, software, solutions, and comprehensive services supporting business needs throughout the IT lifecycle. With options for planning, deployment, and support, Lenovo offers expertise and services needed to deliver better service-level agreements and generate greater end-user satisfaction.

For More Information

To learn more about Lenovo Database Configurations for Microsoft SQL Server OLTP, contact your Lenovo Business Partner or visit:

www.lenovo.com/systems/solutions

Why Intel Select Solutions

Key benefits of investing in an Intel Select Solution from Lenovo include:

- Simplified evaluation. New workload integration and the transition to software-defined infrastructure are two areas where IT managers spend more and more time and money sorting through endless options, searching for optimal solutions. Intel Select Solutions are tightly specified in terms of HW and SW components to eliminate guesswork and speed decision-making.
- Fast and easy deployment. With pre-defined settings and rigorous system-wide tuning, Intel Select Solutions are designed to increase efficiency in IT's testing process, speed time to service delivery, and increase confidence in solution performance.
- Workload-optimized performance. Intel Select Solution configurations are designed by Intel and our partners to deliver to a performance threshold for the workload, and are built on the latest Intel architecture foundation including the recently-launched Intel® Xeon® Scalable platforms.



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