

Lenovo Database Configurations

for Microsoft SQL Server OLTP

Reduce time to value with Intel Select Solution verified hardware configurations

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 two transactional database solutions. Both solutions utilize Microsoft SQL Server 2016 database software deployed on Microsoft Windows Server 2016 operating system without server virtualization. Both of these solutions are based on the Intel Select Solution specifications and performance results have been verified by Intel.

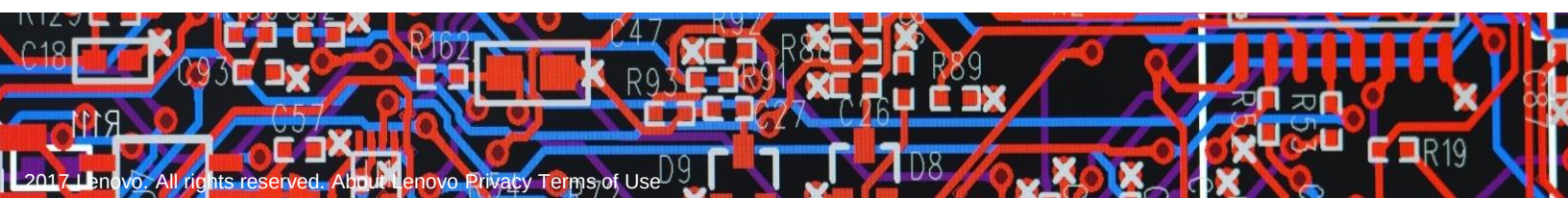
One solution is based on the Lenovo ThinkSystem SR650 server. It is deployed with the Microsoft SQL Server 2016 – Enterprise Edition. The other solution is based on the Lenovo ThinkSystem SR630 server. It is deployed with the Microsoft SQL Server 2016 – Standard Edition. The server configurations in both of these solutions are optimized to deliver extreme transactional database performance. To maximize application reliability, both of these solutions are deployed in a two server high availability configuration.

These Lenovo database configurations for Microsoft SQL Server OLTP are methodically tested and tuned to save you months of configuration, setup, testing, and tuning. With these offerings from Lenovo, you can now 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 pretested hardware configurations
- Reduce TCO through better performance, rapid deployment and advanced hardware
- Optimize cost and performance with ThinkSystem SR650 and ThinkSystem SR630 configurations that have been verified by Intel via the Intel Select program
- Available with Microsoft SQL Server Standard Edition and Microsoft SQL Server Enterprise Edition



Lenovo ThinkSystem SR650 SR630 servers for high performance and cost effective OLTP solutions



Powered by Lenovo ThinkSystem SR650 and ThinkSystem SR630 Servers

The Lenovo ThinkSystem SR650 and SR630 servers serve as the compute/storage nodes for this solution. These 2-socket high performance servers are energy efficient and enable the deployment of cost effective transactional databases. Both servers feature the latest Intel processors and support industry leading high IOP flash storage options. The 2U ThinkSystem SR650 and 1U ThinkSystem SR630 high capacity servers 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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