

Oracle Optimized Warehouse for Sun

For medium data warehouses

Almost universally, companies are building data warehouses to help them make more informed business decisions. The technology choices are mind-boggling and it is possible to build a solution from many combinations of components. However, without careful attention to detail, compatibility, and balanced components, these solutions can produce inefficient data warehouses. Most companies have neither the time nor resources to adequately integrate, test, and tune a myriad of hardware and software components to produce a well balanced, high performance, cost-effective data warehouse solution. Now you don't need to.

Oracle Optimized Warehouse for Sun

The Oracle Optimized Warehouse for Sun combines products from two industry leaders to provide a pre-configured, pre-installed, calibrated, and validated solution that includes the Oracle database, Sun™ servers, storage, and the Solaris™ Operating System (OS) for a fast, reliable, and scalable data warehouse.

The Oracle Optimized Warehouse for Sun is a full-fledged data warehouse product that is sold and supported as a single product. Oracle Database is pre-installed and tested on Sun and Oracle co-developed reference configurations based on Sun servers, storage, and the Solaris 10 OS.

Calibration testing

Engineering teams from both companies perform extensive calibration testing to produce balanced hardware and software configurations.

The resulting system is tuned to provide raw platform performance and linear scalability.

Validation testing

The Oracle Optimized Warehouse for Sun is also subject to a rigorous set of tests to validate the operation, reliability, and performance of the system. Tests verify that Oracle Database and Automatic Storage Management are properly configured and operating efficiently. Destructive testing verifies that the system can correctly recover from failures of nodes, host bus adapters (HBAs), controllers, or disks. Finally, the system undergoes a series of performance tests to verify support for large-scale databases, multiple users, and single- to multinode scalability.

Oracle Optimized Warehouse for Sun for medium data warehouses

The Oracle Optimized Warehouse for Sun for medium data warehouses combines two 8 CPU (dual-core) Sun SPARC Enterprise® M5000 servers and eight Sun StorageTek™ 2540 arrays (up to 27 TB of raw data), all certified and tested with Oracle Database. The Oracle Optimized Warehouse for Sun balances CPU, memory, networking, HBAs, controllers, disks, and switches to provide optimal and linear scalability.

Based on the advanced dual-core SPARC64® VI or quad-core VII processors with vertical-multithreading (VMT) technology, the Sun SPARC Enterprise M5000 server delivers mainframe-class reliability, scalability, and manageability features to meet the demands of enterprise-class applications such as Oracle data warehouses.

Highlights

- Sold and supported as a single, ready to run product
- Pre-configured, pre-installed, calibrated, and validated for exceptional and predictable performance
- Fast data warehouse implementation reduces deployment times
- Reliable, scalable, standards-based data warehouse system
- Easy to buy and competitively priced

Scalable to eight processors and 32 cores, up to 256 GB of memory, and 10 I/O slots, this datacenter system is optimized for data warehouse as well as OLTP databases and other business critical applications.

With up to four fault-isolated domains and thousands of Solaris Containers, the Sun SPARC Enterprise M5000 server provides numerous virtualization capabilities for data warehouse consolidation. Plus, the system delivers high levels of reliability and availability through hardware redundancy, Dynamic Reconfiguration, and Solaris Predictive Self Healing.

The Sun StorageTek 2540 array is ideal for server clustering environments. By utilizing two dual-active RAID controllers with mirrored cache, redundant components, and automated I/O path failover, these arrays are well suited where continuous application and data availability are critical. The array also supports direct attachment of multiple hosts or connectivity to a SAN. This makes it perfect for environments that need to initially deploy a direct attached array, and then seamlessly transition to a SAN when ready.

Oracle Optimized Warehouse reference configurations

Oracle and Sun also offer a comprehensive set of data warehousing configurations that enable IT planners and architects to start from a best fit reference configuration when building a data warehouse. The suggested configurations help reduce the deployment time of data warehousing solutions based on Oracle Database, Sun servers, storage, and the Solaris 10 OS.

Three groups of reference configurations highlight the specific needs of different sized implementations:

- Small — for data warehouses with a raw data size up to 25 TB
- Medium — for data warehouses with a raw data size of up to 75 TB
- Large and extra large — for data warehouses with a raw data size of up to 75 TB and over 100 TB

Sun and Oracle

Sun and Oracle have been working together for more than 25 years to deliver the ultimate in secure, reliable, and scalable enterprise-class datacenters to thousands of customers around the world. With a shared commitment to open, standards-based computing and market-leading innovations, such as grid computing, eco computing, and Java™ technology, Sun is a market share leader for Oracle Database and Applications.

Learn More

For more information on the Oracle Optimized Warehouse for Sun see: www.sun.com/oracle/owi

For the complete set of Oracle Optimized Warehouse Reference Configurations see: www.sun.com/oracle/owi

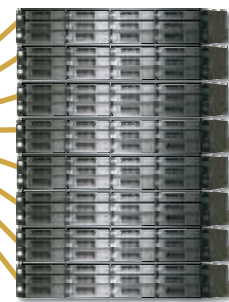
Together, Oracle's powerful data warehouses on Sun's highly scalable platforms, along with Oracle Optimized Warehouse for Sun, reference configurations for DW, industry expertise, and consulting services can help enterprises quickly implement and deliver high performance, low cost, real-time data warehouse systems to create a competitive advantage.

Two Sun SPARC Enterprise® M5000 servers



8 CPUs (dual-core) each
64 GB RAM each
8 HBA each

Eight Sun StorageTek™ 2540 arrays



24 JBOD tray
288 disks
2x 4 Gb/sec. FC each

Solaris™ 10 OS
Oracle Database

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