

EMC Scalable Architecture for Oracle Data Warehouse

WinterCorp research indicates that database size and power have grown faster than ever. From 2003 to 2005, the size of the largest data warehouse tripled, breaking the 100 TB barrier.

Flexibility, scalability, performance, and proven expertise

Having access to timely and accurate data is critical to business strategy and decision making. Given the strategic importance of data, data warehouses are becoming more critical as well—how data is retained, stored, and managed is becoming increasingly more complex.

- Users are demanding even more complex analysis and reporting capabilities, which require more in terms of performance and data availability.
- More data is being stored for longer periods of time—how to cost-effectively store this data and also adhere to more demanding compliance requirements is increasing complex.
- It is important to have experience in designing a flexible architecture for Oracle data warehouse infrastructure that can handle significant, and at times, unpredictable data growth.
- Achieving performance, management, protection, and availability requirements becomes even more challenging as the data warehouse grows.
- Because data is strategic, its uses and requirements are constantly changing. Designing an infrastructure that is flexible and adaptable is challenging.

Oracle Database 11g offers fast, reliable, and secure reporting, analytics, and data mining on low-cost, scalable data warehouses. But deploying Oracle data warehousing is only part of the answer. You need to also understand the strong reliance a well-architected information infrastructure has on achieving business outcomes. Data warehouses or online analytical processing (OLAP) can put very different requirements on the underlying infrastructure, as opposed to an OLTP environment. EMC[®] expertise and information infrastructure solutions for Oracle address these challenges.

Solution description

EMC has invested in the discovery and identification of how well various storage and server combinations scale and perform based on typical Oracle enterprise data warehouse workloads. The EMC Scalable Architecture for Oracle Data Warehouse solution provides customers with recommended reference architecture and best practices for implementing a flexible, scalable Oracle data warehouse infrastructure to achieve optimum performance, scalability, simplified management, and flexibility.

The EMC Scalable Architecture for Oracle Data Warehouse solution leverages the power of EMC Symmetrix[®] DMX-4 storage. With a focus on scalability, performance, flexibility, data protection, and simplicity of management, the Symmetrix DMX-4 provides proven technology leadership for any database deployment, including data warehouse. This solution is lab-validated and supported by documented technical reference architectures and best practices.



EMC is a leading participant in the Oracle Optimized Warehouse Initiative

EMC extends its solutions development activity by participating in the Oracle Optimized Warehouse Initiative. This program provides customers a choice of reference configurations and optimized warehouses that combine the world's most popular database with hardware from leading computer manufacturers. These reference configurations and optimized warehouses are built on modular components that help customers incrementally scale their data warehouse systems. Leveraging the power of EMC CLARiiON® storage delivers five-nines (99.999 percent) availability, lower costs, superior price/performance, flexibility, and scalability for your Oracle data warehouse environments.

Why EMC for Oracle Data Warehouse Infrastructure

- Reduces the time, cost, and risk of deploying Oracle data warehouses on EMC information infrastructure
- Minimizes risk of deploying Oracle data warehouse environments for optimal performance and scalability. Leverage the power of EMC unified storage to support fast serial reads as required for OLAP environments.
- Simplifies management and shortens the learning curve to deploy a robust infrastructure utilizing industry-leading technologies like Oracle Automatic Storage Management (ASM) and EMC ControlCenter®.
- Enhances the utilization of storage infrastructure, which in turn increases scalability, reliability, and performance.
- Enables data warehouse consolidation which helps ensure lower TCO and increased ROI.
- Reduces training costs and provides knowledge transfer between the customer, EMC, and Oracle by leveraging documented reference architectures and best practices.

EMC has invested in the discovery and identification of how well various storage and server combinations scale and perform based on typical Oracle data warehouse workloads. Couple this with EMC's proven expertise across thousands of data warehouse environments, and you have a confident choice for your Oracle data warehouse environments.



EMC Corporation
Hopkinton
Massachusetts
01748-9103
1-508-435-1000
In North America 1-866-464-7381
www.EMC.com

Take the next step

To learn more about EMC's solutions and expertise for Oracle data warehouse environments, visit www.EMC.com or contact your local EMC account manager.