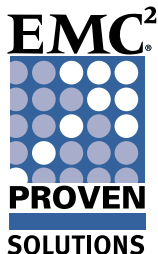


EMC Oracle Database on NAS Accelerator Proven Solution

Cost-effective EMC automated networked storage for Oracle database applications



EMC's Oracle Database on NAS Accelerator Solution uses networked storage and a joint engagement with Oracle to lower costs and reduce complexity in Oracle database environments.

Business Challenges

EMC brings the advantages of networked storage to Oracle database environments, where organizations seek cost-effective, easy-to-manage storage alternatives that respond to changing business requirements for their database applications. Customers are deploying Oracle[®] 9i and Oracle 10g databases for business applications at the departmental level, looking to lower management costs. Many deploy Oracle databases on direct-attached or internal storage rather than networked storage, believing they will provide cost and support advantages, but these perceived advantages quickly evaporate in the face of a range of infrastructure challenges:

- Lower disk utilization
- Higher hardware acquisition costs
- Difficulties managing and scaling capacity as databases and applications grow
- Inefficient backup processing
- No integrated high-availability capability

Customers are also beginning to implement grid or data virtualization strategies to help address changing business requirements.

Solution Description

To address these challenges, EMC and Oracle co-deliver cost-effective networked storage solutions for Oracle[®] 9i and 10g databases, including support for Real Application Clusters (RAC) and Linux. These market leaders have developed architectures, best-practice configurations, and implementation services for Oracle databases on EMC[®] network attached storage (NAS). By deploying your Oracle database on EMC NAS, you build a solid foundation for information lifecycle management (ILM) and grid enablement, enabling significant cost reductions and improved manageability and protection of application data.

The Oracle Database on EMC NAS Accelerator Solution supports either the creation of a new database instance or the transition (cloning) of an existing database instance. The new database instance layout is optimized to maximize the capabilities of an EMC NAS NS series system with NFS-mounted Solaris or Linux host servers. The new or cloned Oracle database instance is replicated on EMC SnapSure[™] volumes to provide a point-in-time copy of the database that can be reused for other objectives such as backup, testing, and data-warehousing. This solution supports a single instance or Real Application Cluster (RAC) environment for Oracle 9i or 10g databases.

The EMC Oracle Database on NAS Accelerator Solution:

- Delivers an implementation or cloning of an Oracle database (9i or 10g) onto an EMC Celerra[®] NS700 file server supporting NFS on the Sun Solaris or Linux operating system. This can support a single instance or a Real Application Cluster (RAC) environment.
- Produces a mirrored replica of the implemented database.
- Creates a new database instance or cloning of a database from host storage or another storage array onto the Celerra system
- Establishes procedures to create either an online or offline replica of the database using EMC Celerra File Server SnapSure software.
- Tests and validates the implemented and integrated Oracle database environment.

EMC and Oracle deliver this best-practice configuration through a suite of joint implementation services for Oracle9i environments or planned Oracle 10g deployments. Seamless joint delivery enables customers to benefit from the expertise of both organizations.

Solution Value

EMC brings the benefits of networked storage to Oracle database customers at lower overall cost and complexity than traditional direct-attached and internal storage infrastructures. EMC's NAS solution for Oracle consolidates database information on the NS700 server, enabling it to be more cost-effectively managed and protected.

Pooling storage significantly improves disk utilization and reduces server acquisition costs. A common EMC management framework can be leveraged across multiple databases, increasing control, reducing administrative costs, and simplifying provisioning of new storage due to growth. Centralized backup processing improves the recoverability of information, and EMC's integrated clustering capabilities make it easy to bring high availability to your Oracle database environment.

EMC NAS provides a range of infrastructure advantages for Oracle database customers:

- Lower TCO—reduced acquisition, administration, and maintenance costs
- Greater manageability—easier implementation, provisioning, and volume management
- High performance—superior performance for Oracle database applications
- Increased flexibility—easy to re-deploy data with other servers
- Improved protection—integrated high availability features and backup capabilities

Getting Started

To learn more about implementing a cost-effective NAS architecture for your existing or future Oracle database environment, contact your local EMC account representative or visit the EMC Proven[™] Solutions section of EMC.com. For specific information on EMC NAS products, visit the NAS products section.



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