

Veritas™ Cluster Server for Oracle 10g

Disaster recovery, data integrity and application uptime for Oracle 10g from a single comprehensive, proven and reliable availability solution.

KEY BENEFITS

- Maximize uptime of Oracle 10g database
- Reduce downtime, both planned or unplanned
- Enable high availability locally and remotely
- Test failover strategy without affecting production

Companies today are encountering tremendous growth in the number of Oracle database-dependent applications, thereby increasing the demand for large, complex and even mission-critical Oracle environments that require stringent service level agreements. As a result, IT organizations need to invest in a higher performing and highly available database infrastructure that increases server utilization and minimizes downtime, whether planned or unplanned.

Clustering services can protect against server, application and database downtime by eliminating the single point of failure found in a single server. A cluster is a group of computers that work together to run a set of applications and provide the image of a single system to the client and application. The computers are physically connected by cables and programmatically connected by cluster software.

The servers within the cluster remain in constant communication. If one of the servers or resources running on the server in a cluster becomes unavailable as a result of failure or maintenance, another server immediately begins providing service, a process known as failover. Users and dependent applications can continue to access the service and are unaware that it is now being provided from a different physical server.

Veritas Cluster Server is the industry's leading open systems clustering solution that protects your critical applications and databases against planned and unplanned downtime, within a local, metropolitan or wide area network. Veritas Cluster Server (VCS) provides high availability to applications, databases and servers by monitoring the health and performance of the resource and automatically restarting on another available server in order to avoid a complete failure.

Veritas Cluster Server Agent for Oracle 10g monitors both the Oracle and Oracle listener processes, brings them online and takes them offline as defined in the cluster's failover policy. This agent includes Cluster Server type declarations and Oracle executables that work together to make Oracle highly available in a VCS cluster without the need for manual scripting and development.

KEY BENEFITS

Maximize uptime of Oracle 10g database

Due to the increasing criticality of enterprise data, proactive planning for 24x7 uptime is becoming a necessity for more and more applications. By using Cluster Server in larger cluster configurations with more clustered nodes, organizations may no longer require servers and applications in need for upgrades or maintenance to be online and available immediately, providing administrators more flexibility when scheduling a maintenance window. Organizations can easily move resources to available servers and fix down servers during normal business hours thereby reducing the costs associated with expensive hardware maintenance contracts typically associated with 24x7 operations.

Reduce downtime, both planned and unplanned

Organizations can utilize Cluster Server for planned downtime by keeping Oracle 10g available while migrating users and dependent applications from one available server to another within the server maintenance window. At the end of the maintenance window, the database can be easily moved back to the original server with a couple of mouse clicks. The solution also improves data availability through planned downtime operations such as storage reconfiguration and application upgrades.

Enable high availability locally and remotely

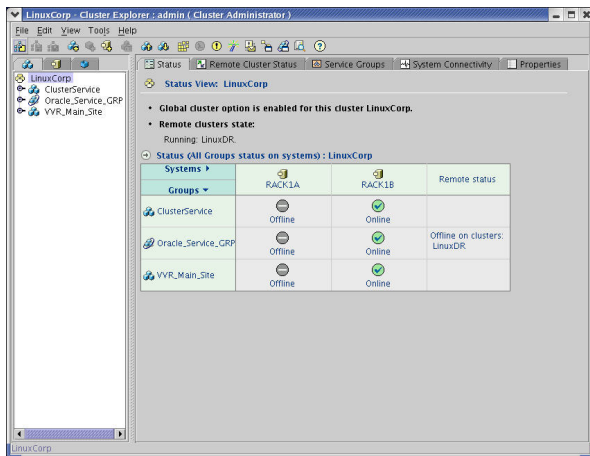
Veritas ensures that achieving local and remote available for your Oracle 10g environment can be done using a single solution. With Cluster Server and the Cluster Server Agent for Oracle, all clustering can be performed and managed from a single product console while allowing organizations to achieve local as well as remote application availability.

Test failover strategy without affecting production

Cluster Server provides the ability to configure, implement and test your high availability and disaster recovery environment without disrupting end users or Oracle dependent applications. Even in a new database environment like Oracle 10g, the cluster simulator tool allows cluster configurations to be configured and tested without requiring a cluster testing environment or impacting the production environment. After the high availability solution has been implemented, Veritas Cluster Server's fire drill capabilities allow organizations to clone their production environment, in a space saving manner, and allow the disaster recovery solution to be fully tested. These new features reduce the need to invest in additional hardware for testing and configuration purposes while ensuring resources will remain available in the production environment.

Simplified Management and Installation

Veritas provides administrators with easy to use configuration wizards for simplified storage management and cluster implementation. Users have a choice of intuitive Web- or Java-based graphical console to monitor the availability of Oracle 10g across the data center irrespective of the operating systems. From these consoles, administrators have the option to monitor the status of their clusters or even failover entire systems by performing a simple click or two of the mouse.



Cluster Server provides flexible configuration of a wide variety of application-dependent resources, including Oracle, with the same look and feel regardless of operating system platform or application.

Cost Effective Clustering with Larger Clusters

Cluster Server provides an advanced, policy-based system for managing multiple Oracle10g database instances and includes a framework for true server consolidation at the data center level by supporting the ability to group servers together in larger clusters. This provides the administrator the ability to configure policy-based rules for failover decisions, based on simple constructs such as available server capacity, or number of specific applications allowed on any specific server. With Cluster Server advanced failover configurations can be used to provide the ability to maximize the utilization of existing servers within the datacenter without requiring additional investment in server hardware or increasing administrative workload.

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Maximize Hardware Utilization

Cluster Server provides the flexibility for adding or removing servers as needed without bringing the applications offline. Support for up to 32 servers in a single cluster allows organizations to achieve availability of applications while achieving maximum hardware utilization by automating the process of making intelligent decisions to ensure applications are hosted on the best server available within the cluster. In addition there is no longer a need for a dedicated standby server within the environment.

Part of a Comprehensive Disaster Recovery Plan

Veritas Cluster Server and the Global Cluster Option are tightly integrated with the Veritas Volume Replicator option, or with third-party replication technologies, to provide a comprehensive disaster recovery solution for Oracle 10g across any distance. Cluster Server handles local availability issues. Volume Replicator replicates critical data to a remote site, and the Global Cluster Option monitors and manages the replication jobs and clusters at each site. In the event of a site outage the Global Cluster Option will control the shift of replication roles to the secondary site, bring up the critical applications and redirect client traffic with a single command or mouse click, from one cluster to the other.

Volume and Data Replication Agent Support

Cluster Server protects your current investment by integrating with a number of replication solutions including Veritas Storage Foundation™, Veritas Volume Replicator, EMC SRDF, Hitachi TrueCopy, HP Continuous Access, Network Appliance SnapMirror and IBM Copy Services Metro Mirror to provide a complete application and data availability solution.

World Class Business Continuity Consulting Services

A solution for high availability and disaster recovery doesn't stop with the technology. Disaster Recovery and Business Continuity requires recovery objective analysis, plan recovery and strategies to name a few. Veritas not only provides a proven solution for high availability and disaster recovery, but also offers superior services to help you define requirements and procedures while ensuring that current investments are used and available.

Support for Oracle 10g R2

Veritas Cluster Server 4.0 for AIX supports the latest release of the Oracle Database 10g, Release 2.

For additional information about Veritas brand software, its products, or the location of an office near you, please call our corporate headquarters or visit our Web site at www.symantec.com.