



RED HAT ENTERPRISE LINUX ADVANCED PLATFORM

HIGH AVAILABILITY DATABASE WITHOUT THE HIGH COST OF RAC.

OVERVIEW

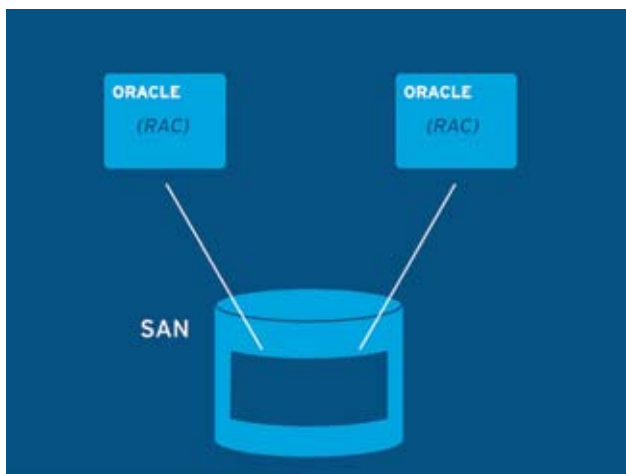
Enterprise customers require data availability and minimal downtime. Achieving automated failover and fast recovery can be done a number of ways. Customers of Oracle Database have the option of using Oracle Real Application Clusters (RAC) to gain high availability but do so at a significant total cost of ownership (TCO). Red Hat Enterprise Linux Advanced Platform offers a competitive highly available clustering solution with low recovery time and at a much better cost and performance ratio than Oracle RAC.

CLUSTERING WITH ORACLE DATABASE

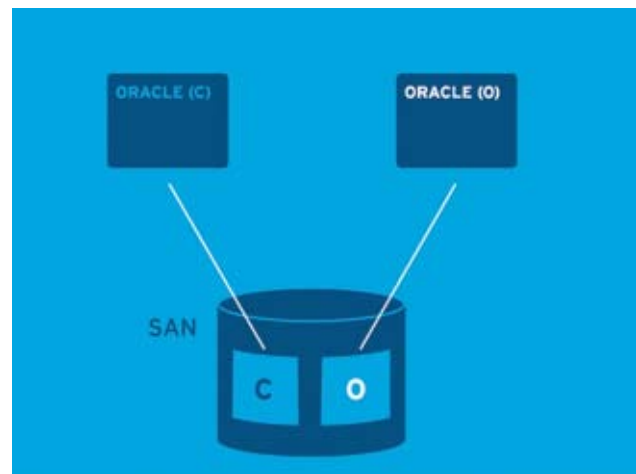
A typical Oracle configuration consists of a database server that connects to network storage such as a NAS or SAN. Client systems communicate with application servers that securely connect to the database server to query and manipulate data.

When the database server suffers an outage, client software must wait for the server to come back online, resulting in interruption of service and possibly lost revenue. Adding Red Hat Advanced Platform clustering capabilities with at least one failover node results in a highly-available Oracle database solution with automated failover and low meantime to recovery.

ORACLE DB WITHOUT CLUSTER



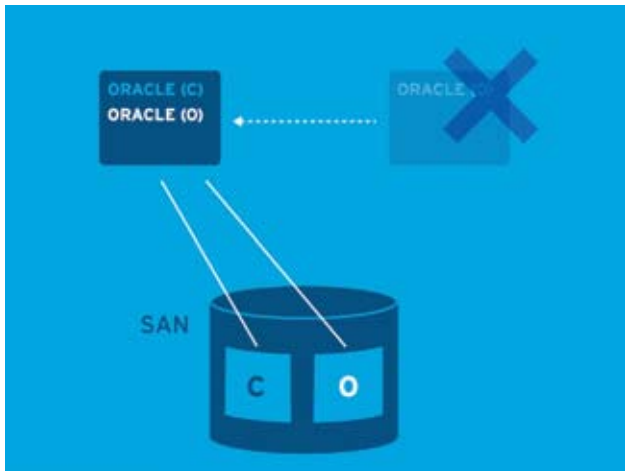
ORACLE DB WITH CLUSTER





Under normal operations, the application servers communicate with the active database node to process requests. If the active database node fails, the cluster manager isolates the failed node, recovers the database file system, and restarts the Oracle database on a functional node. Then the Oracle database performs crash recovery. The team of servers can contain more than one failover server, but the clustering system ensures only one node is running the active Oracle database at one time.

ORACLE DB WITH CLUSTER FAILOVER



INTEGRATED INTO RED HAT ENTERPRISE LINUX ADVANCED PLATFORM

Clustering capabilities are integrated into Red Hat Enterprise Linux 5 Advanced Platform¹. All Advanced Platform components work together seamlessly as one solution set. When changes are needed, Advanced Platform updates are rigorously tested for compatibility with one another before being released. Updates for clustering, and all parts of Advanced Platform, are also guaranteed for the life of the subscription.

When Advanced Platform is used for clustering, there is no need to synchronize Advanced Platform updates with third-party software updates or worry about third-parties obsoleting their software. Fewer vendors means less time spent talking to support. Valuable time is not spent trying to isolate which vendor is responsible for the problem. This translates directly to less outage time and faster deployment.

CONCLUSION

Clustering is a vital component of any enterprise database solution where data must be readily available at all times. The clustering component of Red Hat Enterprise Linux Advanced Platform offers a cost-competitive highly available solution with automated failure and quick recovery in addition to the efficiency of one vendor for updates and support.

¹ Red Hat Cluster Suite and Global File Systems (GFS) are included in Red Hat Enterprise Linux 5 Advanced Platform. They are still layered offerings for Red Hat Enterprise Linux 3 and 4.

RED HAT SALES AND INQUIRIES

1-888-REDHAT1
www.redhat.com