Standard Sequence of Stopping and Starting Oracle RAC.

Startup Procedure steps are as follows:
(1) Start nodeapps (Listener, VIP, GSD, ONS) on each node
(2) Start RAC Database instance on each node

Shutdown Procedure steps are as follows:
(1) Stop RAC Database instance on each node
(2) Stop nodeapps (Listener, VIP, GSD, ONS) on each node

In RAC shutting down one instance does not interfere with the operation of other running instances. To shut down a RAC database completely, shut down every instance that has the database open or mounted. All Cluster-ware commands should be executed from $CRS_HOME/bin. Monitoring Real Application Clusters Setup, following are the commands:

Checking database status
#./srvctl status database –d ORCL
Checking database configuration
#./srvctl config database –d ORCL will show database configuration for each node
Checking Node Applications services status
#./srvctl status nodeapps –n nod1| nod2
Checking all cluster services status
#./crs_stat –t Provides status information for resources on the cluster nodes,below is a sample output
Checking Voting Disk status
#./crsctl query css votedisk

3. RESULT AND FINDING

After an in-depth analysis of Oracle RAC and SQL Server it concludes that; Oracle RAC is an interesting technology with great potential. However its high-cost and Excessive administrative complexity offsets any potential hardware cost savings obtained by using commodity hardware. SQL Server on SMP servers with Database Mirroring for high availability is a more cost effective and easier to manage solution than Oracle RAC. SQL Server can meet the scalability requirements of 99% of customers' real-world applications, while providing the desired levels of availability. For situations where scale-out architectures are the only choice, both Oracle RAC and SQL Server should be considered as equally.

4. DISCUSSION

Oracle Real Application Cluster is projected for High Availability and scalability [9]. RAC provide protection level hardware and software. Oracle Real Application Cluster database delivers High Availability to ensure constant data access even some cluster nodes are down due to any failure of hardware and software. It can be scaled up or down because the business scale grows. Oracle Application Cluster is unique in the market offering its capabilities. RAC is being used by millions customers worldwide in all industries who having mission critical application environments.

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