Practice 17

Deleting an Oracle RAC Node from a Cluster

Practice Overview

In this practice you will perform the procedure to delete the Oracle RAC node srv2 from the Oracle RAC database cluster rac

In high level, you will perform the following:

- Delete rac2 instance from srv2
- Remove Oracle RAC software home from srv2
- Remove Oracle Clusterware software home from srv2
- Delete the cluster node srv2 from the cluster

Practice Assumptions

The practice assumes that you have the Oracle RAC database up and running in the virtual machines srv1 and srv2.

Caution:

Many of the *destructive* commands in this practice should be executed in specific node. Be cautious when executing those commands. Make sure you execute the code on the right node. Executing one command in the wrong node may easily end up with losing the node that you want to keep.

Practice Procedures

A. Deleting Oracle Database Instance from srv2

In the following steps you will delete the Oracle database instance ${\tt rac2}$ from the Oracle RAC database ${\tt rac}$

- 1. In a Putty session, login to srv2 as grid user
- 2. Verify the database is up and running on each node

srvctl status database -d rac

3. Verify there is a current backup of OCR.

Note: To manually take backup of the OCR, run the command:

/u01/app/12.2.0/grid/bin/ocrconfig -manualbackup

/u01/app/12.2.0/grid/bin/ocrconfig -showbackup

4. In srv1, start dbca and delete the instance rac2

Caution: implement the following action in srv1

- a. Login to the VirtualBox window of srv1 as oracle
- b. Open a terminal window and start the dbca utility
- c. Respond to the dbca utility windows as follows:

Window	Action
Database Operation	Select the following option: Oracle Database Instance Management
Instance Operation	Select the following option: Delete an instance
Select Database	Enter the User name as SYS and its password.
Instance Details	Select rac2
Summary	Click on Finish button When the confirmation message is displayed, click on OK button
Finish	Click on Close button

5. Verify that the instance has been removed from the database.

srvctl config database -db rac

- **6.** Open a new Putty session. Login to srv1 as oracle
- **7.** Verify that the dropped instance's redo thread has been removed.

Only thread number 1 should be retrieved by the query.

```
sqlplus / as sysdba
SELECT GROUP#,THREAD#, STATUS FROM V$LOG;
```

B. Removing Oracle Database Software home from srv2

In the following steps you will remove the Oracle database software home from ${\tt srv2}$ and update inventories on the remaining nodes.

8. In srv2, check the status of the listener.

```
srvctl status listener -node srv2
```

9. Disable and stop the listener in srv2

```
srvctl stop listener -listener LISTENER -node srv2
srvctl disable listener -listener LISTENER -node srv2
```

10. Change the current user to oracle

```
su - oracle
```

11. Uninstall the Oracle home from srv2

Caution: implement the following action in srv2

When the script asks to specify the list of database names, just press on [ENTER] key

When the script asks about a confirmation to continue, press on y

\$ORACLE HOME/deinstall/deinstall -local

C. Removing Oracle Clusterware software home from srv2

In the following steps you will remove Oracle clusterware software from srv2

- **12.** In srv2 Putty session, switch the current user to root
- **13.** Verify that srv2 node is active unpinned.

```
/u01/app/12.2.0/grid/bin/olsnodes -s -t
```

14. In srv2 Putty session, switch the current user to grid

15. Remove Oracle Clusterware home from srv2

When you ran the script below, it will ask you to run specific script (rooters.sh) with specific options as root in srv2. Open another Putty session, login to srv2 as root, and execute the given script over there.

The script should finish with the message "Successfully detached Oracle home".

/u01/app/12.2.0/grid/deinstall/deinstall -local

D. Deleting the cluster node srv2 from the cluster

In the following steps you will delete the node srv2 from the cluster.

16. In srv1 Putty session, delete the node srv2 from the cluster.

/u01/app/12.2.0/grid/bin/crsctl delete node -n srv2

17. Switch the current user to grid

su - grid

18. Run the following CVU command to verify that srv2 has been successfully deleted from the cluster.

/u01/app/12.2.0/grid/bin/cluvfy stage -post nodedel -n srv2 -verbose

Summary

Removing an Oracle RAC node from a database cluster is a systematic procedure. It goes through the following sequential actions:

- Delete rac2 instance from srv2
- Remove Oracle RAC software home from srv2
- Remove Oracle Clusterware software home from srv2
- Delete the cluster node srv2 from the cluster