

10g RAC on Linux, removing cluster nodes

Please see also the installation procedure in [Installation procedure](#)

Stop Oracle services on the node to be removed from the RAC cluster

- relocate services running on the node to be evicted to other cluster nodes, when relevant
- check that you have ocr backups (and take one if needed) with: `ocrconfig -showbackup`
- run:

```
srvctl stop instance -d .. -i ..
srvctl remove instance -d .. -i ..
srvctl stop asm -n ..
srvctl remove asm -n ..
srvctl stop nodeapps -n ..
```

```
..as root:
srvctl remove nodeapps -n ..
crs_unregister ora.itrac40.<listener_name>.lsnr
crs_unregister ora.<nodename>.vip
```

- check `ifconfig -a` and set `ethX:Y` down if needed
- note1: if CRS resources are disabled they cannot be removed, so enable them before removal
- note2: if 'remove' does not work, for example because services have been partially dropped already, `-f` (force) can be used

Remove DB objects and parameters:

- connect to the db
- if in archive log make sure the logs from the deleted instance are archived `* select * from v$log where thread#=X; * if needed: alter system archive log all; + check again that logs have been archived`
- `alter database disable thread X;`
- repeat for all the groups belonging to the disabled thread: `* alter database drop logfile group YY;`
- `drop tablespace undo...; (drop the undo tablespace for the removed instance)`
- unset the DB parameters specific to the removed instance

```
sqlsys_DB
alter system reset local_listener scope=spfile sid='XX';
alter system reset thread scope=spfile sid='XX';
alter system reset undo_tablespace scope=spfile sid='XX';
alter system reset instance_number scope=spfile sid='XX';

alter system reset "__db_cache_size" scope=spfile sid='XX';
alter system reset "__java_pool_size" scope=spfile sid='XX';
alter system reset "__large_pool_size" scope=spfile sid='XX';
alter system reset "__shared_pool_size" scope=spfile sid='XX';
alter system reset "__streams_pool_size" scope=spfile sid='XX';
create pfile='/tmp/pfileDB_for_further_checks' from spfile;
```

- analogously unset the ASM parameters

```
sqlsys_ASM
alter system reset local_listener scope=spfile sid='+ASM...';
alter system reset instance_number scope=spfile sid='+ASM...';
create pfile='/tmp/pfileASM_for_further_checks' from spfile;
```

- edit `tnsnames.ora` (on all nodes)

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- ◆ edit the **remote_listeners** parameter
- ◆ edit tns entries (remove the node from the list of addresses)
- ◆ edit afs tnsnames.ora

Remove the node from CRS

- check the current list of nodes: **olsnodes -n**
- on the **node to be removed**, run as root: `$ORA_CRS_HOME/install/rootdelete.sh remote nosharedvar`
- on a **different node** (node that stays in the cluster), run as root:
`$ORA_CRS_HOME/install/rootdeletenode.sh [nodename],[node_number]`
- check the current list of nodes: **olsnodes -n**

Update the Oracle inventory

- Update the rdbms inventory

```
$ORACLE_HOME/oui/bin/runInstaller -updateNodeList ORACLE_HOME=$ORACLE_HOME CLUSTER_NODES=<node1>,
```

- Update the crs inventory

```
$ORACLE_HOME/oui/bin/runInstaller -updateNodeList ORACLE_HOME=$ORA_CRS_HOME CRS=TRUE CLUSTER_NODES=<node1>,
```

- if you have the EM agent, stop it and update the nodelist for EM agent too

Remove Oracle files

- Main files of the Oracle installation

```
rm -rf /etc/oracle /etc/oratab /oraInst.loc  
rm -rf $ORACLE_BASE/product $ORACLE_BASE/oraInventory
```

- In-depth removal

```
/etc/init.d/oracleasm stop  
chkconfig --del oracleasm  
rm /etc/init.d/oracleasm  
service devlabel stop  
chkconfig --del devlabel  
rm -rf /var/tmp/.oracle  
vi $HOME/.bashrc (remove entries related to Oracle instances)  
rm /etc/logrotate.d/ora_*  
vi /etc/modules.conf  
(comment out #options qla2300 and #options hangcheck-timer)  
rm /etc/qla2300.conf  
rm /boot/initrd-2.4.21-37.ELsmp.img; mkinitrd /boot/initrd-2.4.21-37.ELsmp.img 2.4.21-37.ELsmp  
rmmod qla2300  
ifconfig eth1 down  
ifconfig eth2 down  
vi /etc/sysconfig/network-scripts/ifcfg-eth1 (edit: ONBOOT=no)  
vi /etc/sysconfig/network-scripts/ifcfg-eth2 (edit: ONBOOT=no)  
shutdown -r now
```

Remove Oracle files on the evicted node

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