CATE Oracle Link : <https://catecollaboration.citigroup.net/domains/platstor/db/OracleDocs/MigrationUpgrade/Oracle%20Database%20Support%20for%20SANgria.pdf>

Doc Location : /export/scripts/Documentation/LINUX/ASM\_RHEL6\_5\_upgrade

Main changes after the upgrade

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\*\*\*\*\*\*\*\*  ASM devices will change to /dev/asmdisk/asmdisk#

\*\*\*\*\*\*\*\*  Discuss with DBA before scheduling .DBA changes mentioned in Appendix 1 below.

\*\*\*\*\*\*\*\*  This procedure  assume all current ASM devices  are with powerpath control and has disk primary partition assigned to oracle:dba

\*\*\*\*\*\*\*\*  Before scheduling the machines for upgrade we have to create new rule file and keep it ready.

-------------Creating new rule file-----------------

This can be done manually (please refer above cate link for instructions) .

For ease of work we have created some scripts which will do the task.

Using sangria script

1) Copy the tar file sangria\_scripts.tar from ccuaweb3 /export/scripts/Linux/ to the RAC nodes and extract

2) Extract the script contents

mkdir /var/tmp/sa

cd /var/tmp/sa

tar -xvf sangria\_scripts.tar

The archive has below contents

asm\_uuid.sh

dm\_templ

generate.sh

3)Get the list of asm devices , we can get it from DBA or using below commands. Save it as asmdisk.txt

#su - oracle -c "/optware/oracle/11.2.0.4/db\_1/bin/kfod disks=all status=true asm\_diskstring='/dev/emcpower\*'" | grep /dev | awk '{print $5}'  > asmdisk.txt

OR

#find  /dev -type b -user oracle -print > asmdisk.txt

\*\*\*\*\*\* kfod path will be different based on oracle version

\*\*\*\*\*\* Run all scripts from the extracted path (/var/tmp/sa/)

4)Run asm\_uuid.sh , This will generate input file input.txt

5)Now run generate.sh ,This will create the new rules file

# generate.sh > newrules.file

Verify number of lines on existing and new rules file ,make sure they are same

wc -l newrules.file

wc -l /etc/udev/rules.d/99-oracle.rules

\*\*\*\*\*\* keep the same udev rules file on both nodes so that disk names will be in sync \*\*\*\*\*\*\*

6)Save current emcpower mapping on node  - (This can be used for backout)

cd /var/tmp/sa

emcpadm export\_mappings -x -f `uname -n`\_mapping

su - oracle -c "/optware/oracle/11.2.0.4/db\_1/bin/kfod disks=all status=true asm\_diskstring='/dev/emcpower\*'" > kfod\_before

cp /etc/udev/rules.d/99-oracle.rules 99-oracle.rules.bkp

----------Tasks during GZ-------------

\*\*\*\* DBA should be available during the GZ to update ASM disk configuration .

\*\*\*\* Request DBA to modify the search string before shutdown . Please see details below in Appendix 1

1) Disable powerpath and reboot the machine

        mv /etc/init.d/PowerPath /etc/init.d/PowerPath.bkp

        reboot

2)remove all powerpath rpms

yum remove EMCpower.LINUX

3)Update yum repo and upgrade machine to 6.5

4)Copy /var/tmp/sa/newrules.file  to /etc/udev/rules.d/99-oracle.rules and reboot

5)Verify asm disks under /dev/asmdisk/asmdisk\*

su - oracle -c "/optware/oracle/11.2.0.4/db\_1/bin/kfod disks=all status=true asm\_diskstring='/dev/asmdisk/\*'"

\*\*Compare with o/p taken before ,Number of member and candidate disks should be same

5)DBA to bring up/verify DB.

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Appendix 1

\*\*\* Note from DBA

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As Per oracle (GPNP) profile of an Grid Infrastructure home ($GRID\_HOME/gpnp/<hostname>/profiles/peer/profile.xml) should not be modified manually.

WARNING: It is NOT supported to modify the file profile.xml manually as it could result in an unrecoverable problem which in turn would require a rebuild of the entire cluster.

For RAC clusters we need to add one more option to asm\_diskstring change command, please make sure it is completed successfully before shutting down CRS for upgrade activities.

alter system set asm\_diskstring='/dev/asmdisk/\*' sid='\*' scope=spfile;

Please also add following in the DBA task 'to execute following SQL script and shell script to Gather & Backup ASM/ACFS Metadata information in a Formatted Manner' before shutting down ASM for SA activities.

corpdb199p:/cdm\_depot/toolset/asm/sql/asm\_meta\_backup.sql

corpdb199p:/cdm\_depot/toolset/asm/sql/asmcmd\_script.sh

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Thanks & Regards,

**Prasad Elumalai**

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*ServiceNow templates:*

*TTMP0000015109 (CTSK template)*

*RTMP0000015785 (REQU Template)*

*ITMP0000015786 (INC Template)*