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Exadata Database Machine and Exadata Storage Server Supported Versions (Doc ID 888828.1)

5 composants à patcher :

- KVM host & VM → Nodes
- Storage Cell - > Cells
- RoCE switches → Sw
- dbnu
- GI

Exemple (09/2023) :

```
### Nodes ### p35667496_221000_Linux-x86-64.zip
### Cells ### p35767204_221000_Linux-x86-64.zip
### Sw    ### p35468771_221000_Linux-x86-64.zip
### dbnu  ### p21634633_231500_Linux-x86-64.zip
### GI    ### p35755646_1920000DBRU_Linux-x86-64.zip + p35319490_190000_Linux-x86-64.zip + p35656840_1920000DBRU_Linux-x86-64.zip
```

00_prepare

```
cp /mnt/patches/repository/patch.conf.no2yy86.2207 /mnt/patches/repository/patch.conf.no2yy86.2207.backup
cp /mnt/patches/repository/patch.conf.pc2yy55.2207 /mnt/patches/repository/patch.conf.pc2yy55.2207.backup

cp /mnt/patches/repository/patch.conf.no2yy86.2207 /mnt/patches/repository/patch.conf.no2yy86.2310
cp /mnt/patches/repository/patch.conf.pc2yy55.2207 /mnt/patches/repository/patch.conf.pc2yy55.2310

sed -i "s/22.1.2/22.1.15/g" /mnt/patches/repository/patch.conf.no2yy86.2310
sed -i "s/220816/230901/g" /mnt/patches/repository/patch.conf.no2yy86.2310
sed -i "s/7.0(3)I7(9)/10.2(4)/g" /mnt/patches/repository/patch.conf.no2yy86.2310
sed -i "s/p34388153_221000_Linux-x86-64.zip/p35667496_221000_Linux-x86-64.zip/g" /mnt/patches/repository/patch.conf.no2yy86.2310
sed -i "s/FILES_PATCHBASE=p20629338_212000_Linux-x86-64.zip/FILES_PATCHBASE=p20629338_231300_Linux-x86-64.zip/g" /mnt/patches/repository/patch.conf.no2yy86.2310
sed -i "s/FILES_CELL=p34483757_221000_Linux-x86-64.zip/FILES_CELL=p35767204_221000_Linux-x86-64.zip/g" /mnt/patches/repository/patch.conf.no2yy86.2310
sed -i "s/FILES_OPATCH=p6880880_122010_Linux-x86-64.zip/FILES_OPATCH=p6880880_190000_Linux-x86-64.zip/g" /mnt/patches/repository/patch.conf.no2yy86.2310
sed -i "s/FILES_SWITCH=p34388152_221000_Linux-x86-64.zip/FILES_SWITCH=p35468771_221000_Linux-x86-64.zip/g" /mnt/patches/repository/patch.conf.no2yy86.2310

sed -i "s/22.1.2/22.1.15/g" /mnt/patches/repository/patch.conf.pc2yy55.2310
sed -i "s/220816/230901/g" /mnt/patches/repository/patch.conf.pc2yy55.2310
sed -i "s/7.0(3)I7(9)/10.2(4)/g" /mnt/patches/repository/patch.conf.pc2yy55.2310
sed -i "s/p34388153_221000_Linux-x86-64.zip/p35667496_221000_Linux-x86-64.zip/g" /mnt/patches/repository/patch.conf.pc2yy55.2310
sed -i "s/FILES_PATCHBASE=p20629338_212000_Linux-x86-64.zip/FILES_PATCHBASE=p20629338_231300_Linux-x86-64.zip/g" /mnt/patches/repository/patch.conf.pc2yy55.2310
sed -i "s/FILES_CELL=p34483757_221000_Linux-x86-64.zip/FILES_CELL=p35767204_221000_Linux-x86-64.zip/g" /mnt/patches/repository/patch.conf.pc2yy55.2310
sed -i "s/FILES_OPATCH=p6880880_122010_Linux-x86-64.zip/FILES_OPATCH=p6880880_190000_Linux-x86-64.zip/g" /mnt/patches/repository/patch.conf.pc2yy55.2310
sed -i "s/FILES_SWITCH=p34388152_221000_Linux-x86-64.zip/FILES_SWITCH=p35468771_221000_Linux-x86-64.zip/g" /mnt/patches/repository/patch.conf.pc2yy55.2310

#nohup /opt/oracle.ahf/exachk/exachk -a -clusternodes `cat $HOME/dbs_group | awk '{print $1}'|xargs| sed -e 's/ /,/g'` -s &> /tmp/exachk_`date +%Y-%m-%d_%H-%M`.log &

##mycmd## dcli -l root -g $HOME/cell_group 'cellcli -e list physicaldisk' | grep -v normal
##mycmd## dcli -l root -g $HOME/cell_group 'cellcli -e list celldisk' | grep -v normal
##mycmd## dcli -l root -g $HOME/cell_group 'cellcli -e list griddisk attributes name,asmmodestatus,asmdeactivationoutcome' | grep -vi yes

### cleanup
dcli -l root -g $HOME/dbs_group 'mkdir -p /EXAVMIMAGES/patches'
dcli -l root -g $HOME/dbs_group 'ls -al /EXAVMIMAGES/patches'
#dcli -l root -g $HOME/dbs_group 'rm -rf /EXAVMIMAGES/patches/*'
#dcli -l root -g $HOME/dbs_group 'rm -rf /EXAVMIMAGES/patches/.*'
dcli -l root -g $HOME/dbs_group 'ls -al  /EXAVMIMAGES/patches'

dcli -l root -g $HOME/guests_group 'mkdir -p /u01/patches'
#dcli -l root -g $HOME/guests_group 'rm -rf /u01/patches/*'
#dcli -l root -g $HOME/guests_group 'rm -rf /u01/patches/.*'
dcli -l root -g $HOME/guests_group 'ls -al  /u01/patches'
dcli -l root -g $HOME/guests_group 'df -hP|grep /u01/patches'


##mycmd## dcli -l root -g $HOME/dbs_group  'dbmcli -e list alerthistory'
##mycmd## dcli -l root -g $HOME/guests_group 'dbmcli -e list alerthistory'

##mycmd## dcli -l root -g $HOME/dbs_group 'dbmcli -e drop alerthistory all'
##mycmd## dcli -l root -g $HOME/guests_group 'dbmcli -e drop alerthistory all'

---------------------- ##mycmd## ipmitool bmc reset cold
---------------------- ##mycmd## dcli -l root -g $HOME/cell_group ipmitool bmc reset cold
```

```
vi /EXAVMIMAGES/patches/screenrc

hardstatus alwayslastline "%{= RY}%H %{kG}%{G} kompo.0: %{c}%w %=%{kG}%c:%s %D, %M %d %Y "
defscrollback 5000
deflog on
logfile screenlog_kompo.0
sessionname kompo.0

cd /EXAVMIMAGES/patches
screen -c /EXAVMIMAGES/patches/screenrc
export PS1='\[\e[1;31m\][\u@\h (\t) \w]\$\[\e[0m\] '


dcli -l root -g $HOME/dbs_group -f /EXAVMIMAGES/patches/screenrc -d /EXAVMIMAGES/patches/screenrc
dcli -l root -g $HOME/guests_group -f /EXAVMIMAGES/patches/screenrc -d /u01/patches/screenrc

### OH patcher
dcli -l root -g $HOME/guests_group 'ls -al /mnt/patches/repository/p20629338_231300_Linux-x86-64.zip'
dcli -l root -g $HOME/guests_group 'unzip -qo /mnt/patches/repository/p20629338_231300_Linux-x86-64.zip -d /u01/patches'
dcli -l root -g $HOME/guests_group 'ls -al /u01/patches'
dcli -l root -g $HOME/dbs_group 'unzip -qo /mnt/patches/repository/p20629338_231300_Linux-x86-64.zip -d /EXAVMIMAGES/patches'
dcli -l root -g $HOME/dbs_group 'ls -al  /EXAVMIMAGES/patches'

dcli -l root -g $HOME/guests_group -f /mnt/patches/repository/patch.conf.no2yy86.2310 -d /u01/patches/conf/patch.conf
dcli -l root -g $HOME/dbs_group -f /mnt/patches/repository/patch.conf.no2yy86.2310 -d /EXAVMIMAGES/patches/conf/patch.conf

dcli -l root -g $HOME/guests_group -f /mnt/patches/repository/patch.conf.pc2yy55.2310 -d /u01/patches/conf/patch.conf
dcli -l root -g $HOME/dbs_group -f /mnt/patches/repository/patch.conf.pc2yy55.2310 -d /EXAVMIMAGES/patches/conf/patch.conf

### OS
dcli -l root -g $HOME/guests_group 'mkdir -p /u01/patches/tmp/'
dcli -l root -g $HOME/guests_group 'mkdir /u01/patches/patches'
dcli -l root -g $HOME/dbs_group 'mkdir /EXAVMIMAGES/patches/tmp'
dcli -l root -g $HOME/dbs_group 'mkdir /EXAVMIMAGES/patches/patches'


dcli -l root -g $HOME/guests_group 'ls -al /mnt/patches/repository/p35667496_221000_Linux-x86-64.zip'
dcli -l root -g $HOME/dbs_group 'ls -al /mnt/patches/repository/p35667496_221000_Linux-x86-64.zip'

dcli -l root -g $HOME/dbs_group 'cp /mnt/patches/repository/p35667496_221000_Linux-x86-64.zip /EXAVMIMAGES/patches/patches/'
dcli -l root -g $HOME/guests_group 'cp /mnt/patches/repository/p35667496_221000_Linux-x86-64.zip /u01/patches/patches/'

dcli -l root -g $HOME/dbs_group 'cp /mnt/patches/repository/p35853251_2211500_Linux-x86-64.zip /EXAVMIMAGES/patches/patches/'
dcli -l root -g $HOME/guests_group 'cp /mnt/patches/repository/p35853251_2211500_Linux-x86-64.zip /u01/patches/patches/'


dcli -l root -g $HOME/guests_group 'ls -al  /u01/patches/patches/'
dcli -l root -g $HOME/dbs_group 'ls -al /EXAVMIMAGES/patches/patches/'

dcli -l root -g $HOME/dbs_group 'cp /mnt/patches/repository/p35667496_221000_Linux-x86-64.zip /EXAVMIMAGES/patches/patches/'
dcli -l root -g $HOME/guests_group 'cp /mnt/patches/repository/p35667496_221000_Linux-x86-64.zip /u01/patches/patches/'

### dbnu
dcli -l root -g $HOME/guests_group 'ls -al /mnt/patches/repository/p21634633_231500_Linux-x86-64.zip'
dcli -l root -g $HOME/dbs_group 'ls -al /mnt/patches/repository/p21634633_231500_Linux-x86-64.zip'

dcli -l root -g $HOME/dbs_group "unzip -o -j -d /EXAVMIMAGES/patches/patches /mnt/patches/repository/p21634633_231500_Linux-x86-64.zip '*dbnodeupdate.zip'"
dcli -l root -g $HOME/dbs_group 'unzip -qo /EXAVMIMAGES/patches/patches/dbnodeupdate.zip -d /EXAVMIMAGES/patches/bin/dbnu'
dcli -l root -g $HOME/dbs_group 'bash -c "export gc_patch_base=/EXAVMIMAGES/patches;source /EXAVMIMAGES/patches/lib/constants.sh;source /EXAVMIMAGES/patches/lib/log_message.sh;source
/EXAVMIMAGES/patches/lib/checkDBnodeupdate.sh;checkDBnodeupdate;exit"'

dcli -l root -g $HOME/guests_group "unzip -o -j -d /u01/patches/patches /mnt/patches/repository/p21634633_231500_Linux-x86-64.zip '*dbnodeupdate.zip'"
dcli -l root -g $HOME/guests_group 'unzip -qo /u01/patches/patches/dbnodeupdate.zip -d /u01/patches/bin/dbnu'
dcli -l root -g $HOME/guests_group 'bash -c "export gc_patch_base=/u01/patches;source /u01/patches/lib/constants.sh;source /u01/patches/lib/log_message.sh;source /u01/patches/lib/checkDBnodeupdate.sh;checkDBnodeupdate;exit"'

dcli -l root -g $HOME/dbs_group '/EXAVMIMAGES/patches/bin/dbnu/dbnodeupdate.sh -V'
dcli -l root -g $HOME/guests_group '/u01/patches/bin/dbnu/dbnodeupdate.sh -V'

#### Cells

dcli -l root -g $HOME/dbs_group 'unzip -qo /mnt/patches/repository/p35767204_221000_Linux-x86-64.zip -d /EXAVMIMAGES/patches/tmp'

#### OH
dcli -l root -g $HOME/guests_group 'mkdir -p /u01/patches/tmp/OPATCH_12'
dcli -l root -g $HOME/guests_group 'unzip -qo /mnt/patches/repository/p6880880_190000_Linux-x86-64.zip -d /u01/patches/tmp/OPATCH_12/'
dcli -l root -g $HOME/guests_group -f /mnt/patches/repository/p6880880_190000_Linux-x86-64.zip -d /u01/patches/patches/
```

###19.20 GI

```
dcli -l root -g $HOME/guests_group 'unzip -qo /mnt/patches/repository/p35319490_190000_Linux-x86-64.zip -d /u01/patches/tmp/'
dcli -l root -g $HOME/guests_group 'unzip -qo /mnt/patches/repository/p35656840_1920000DBRU_Linux-x86-64.zip -d /u01/patches/tmp/'
dcli -l root -g $HOME/guests_group 'unzip -qo /mnt/patches/repository/p35755646_1920000DBRU_Linux-x86-64.zip -d /u01/patches/tmp/'
```

Checks espace disque

```
dcli -l root -g $HOME/dbs_group 'df -h /EXAVMIMAGES'
dcli -l root -g $HOME/guests_group 'df -h /u01/patches'
dcli -l root -g $HOME/guests_group 'df -h /u01/app/19.0.0.0/grid/'
```

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https://unix-bck.ndlp.info/ - **Where there is a shell, there is a way**

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