_3-Patchs GI & BDD

Tableau récapitulatif

	patch	répertoire
oracle	fix_import_views_p28642899_193000DBRU_Linux-x86-64.zip	/mnt/dbbkp/sources_oracle/19cR3/patch/28642899
grid	patch30501910_190000_GRIDINFRA_Linux-x86-64.zip	/mnt/dbbkp/sources_oracle/19cR3/patch/30501910
oracle	patch30557433_190000_DB19c_LINUX.zip	/mnt/dbbkp/sources_oracle/19cR3/patch/30557433

Dézipper les sources

- En grid
```
unzip -d /mnt/dbbkp/sources_oracle/patch_gi19 patch30501910_190000_GRIDINFRA_Linux-x86-64.zip
```

- En oracle
```
unzip -d /mnt/dbbkp/sources_oracle/patch_orcl19c patch30557433_190000_DB19c_LINUX.zip
```

Stopper les ressources

- Arrêter le listener

```
lsnrctl stop
[grid@poc002:+ASM]$ crsctl status res -t
```

- Arrêter l'asm

srvctl stop asm -force

Valider les patchs

```
$GRID_HOME/OPatch/opatch version
$GRID_HOME/OPatch/opatch lsinventory -detail -oh $GRID_HOME
$GRID_HOME/OPatch/opatch prereq CheckConflictAgainstOHWithDetail -phBaseDir /mnt/dbbkp/sources_oracle/19cR3/patch
/30501910/30557433
```

- Pour Grid Infrastructure Home, en tant que GRID :

```
% $ORACLE_HOME/OPatch/opatch prereq CheckConflictAgainstOHWithDetail -phBaseDir <UNZIPPED_PATCH_LOCATION>/30
501910/30557433
% $ORACLE_HOME/OPatch/opatch prereq CheckConflictAgainstOHWithDetail -phBaseDir <UNZIPPED_PATCH_LOCATION>/30
501910/30489227
% $ORACLE_HOME/OPatch/opatch prereq CheckConflictAgainstOHWithDetail -phBaseDir <UNZIPPED_PATCH_LOCATION>/30
501910/30489632
% $ORACLE_HOME/OPatch/opatch prereq CheckConflictAgainstOHWithDetail -phBaseDir <UNZIPPED_PATCH_LOCATION>
/30501910/
% $ORACLE_HOME/OPatch/opatch prereq CheckConflictAgainstOHWithDetail -phBaseDir <UNZIPPED_PATCH_LOCATION>
/30501910/30655595
```

- Pour Database home, en tant qu'Oracle :

```
% $ORACLE_HOME/OPatch/opatch prereq CheckConflictAgainstOHWithDetail -phBaseDir <UNZIPPED_PATCH_LOCATION>/30
501910/30557433
% $ORACLE_HOME/OPatch/opatch prereq CheckConflictAgainstOHWithDetail -phBaseDir <UNZIPPED_PATCH_LOCATION>/30
501910/30489227
```

Appliquer les patchs

- **Sur GRID_HOME**

export PATH=$PATH:<GI_HOME>/OPatch

export PATH=$PATH:/grid/oracle/product/19.3/OPatch

> **cd /mnt/dbbkp/sources_oracle/19cR3/patch/30501910/30655595**
>
> **opatch prereq CheckConflictAgainstOHWithDetail -ph ./**
>
> **opatch apply**

opatchauto apply /mnt/dbbkp/sources_oracle/19cR3/patch/30501910 -oh /grid/oracle/product/19.3

opatch apply /mnt/dbbkp/sources_oracle/19cR3/patch/30501910/30557433
ou avec opatchauto

> **[root@vuoraacc001 jjoly]# export PATH=$PATH:/grid/oracle/product/19.0/OPatch**
> **[root@vuoraacc001 jjoly]# opatchauto apply /mnt/dbbkp/sources_oracle/19cR3/patch/30501910 -oh /grid/oracle/product/19.0**
>
> **OPatchauto session is initiated at Mon Mar 22 13:41:45 2021**
>
> **System initialization log file is /grid/oracle/product/19.0/cfgtoollogs/opatchautodb/systemconfig2021-03-22_01-54-23PM.log.**
>
> **Session log file is /grid/oracle/product/19.0/cfgtoollogs/opatchauto/opatchauto2021-03-22_01-54-42PM.log**
> **The id for this session is 4EBC**
>
> **Executing OPatch prereq operations to verify patch applicability on home /grid/oracle/product/19.0**
> **Patch applicability verified successfully on home /grid/oracle/product/19.0Bringing down CRS service on home /grid/oracle/product/19.0**
> **Prepatch operation log file location: /grid/oracle/crsdata/puoraacc001/crsconfig/hapatch_2021-03-22_01-57-37PM.log**
> **CRS service brought down successfully on home /grid/oracle/product/19.0Start applying binary patch on home /grid/oracle/product/19.0**
> **Binary patch applied successfully on home /grid/oracle/product/19.0Starting CRS service on home /grid/oracle/product/19.0**
> **Postpatch operation log file location: /grid/oracle/crsdata/puoraacc001/crsconfig/hapatch_2021-03-22_02-25-51PM.log**
> **CRS service started successfully on home /grid/oracle/product/19.0**
>
> **OPatchAuto successful.**
>
> **-------------------------------Summary-------------------------------**
>
> **Patching is completed successfully. Please find the summary as follows:**
>
> **Host:puoraacc001**
> **SIHA Home:/grid/oracle/product/19.0**
> **Version:19.0.0.0.0**
> **Summary:**
>
> **==Following patches were SUCCESSFULLY applied:**
>
> **Patch: /mnt/dbbkp/sources_oracle/19cR3/patch/30501910/30489227**
> **Log: /grid/oracle/product/19.0/cfgtoollogs/opatchauto/core/opatch/opatch2021-03-22_13-58-09PM_1.log**
>
> **Patch: /mnt/dbbkp/sources_oracle/19cR3/patch/30501910/30489632**
> **Log: /grid/oracle/product/19.0/cfgtoollogs/opatchauto/core/opatch/opatch2021-03-22_13-58-09PM_1.log**
>
> **Patch: /mnt/dbbkp/sources_oracle/19cR3/patch/30501910/30557433**
> **Log: /grid/oracle/product/19.0/cfgtoollogs/opatchauto/core/opatch/opatch2021-03-22_13-58-09PM_1.log**
>
> **Patch: /mnt/dbbkp/sources_oracle/19cR3/patch/30501910/30655595**
> **Log: /grid/oracle/product/19.0/cfgtoollogs/opatchauto/core/opatch/opatch2021-03-22_13-58-09PM_1.log**
>
> **OPatchauto session completed at Mon Mar 22 14:33:26 2021**
> **Time taken to complete the session 51 minutes, 41 seconds**

- **Sur ORACLE_HOME**

export PATH=$PATH:/app/oracle/product/19.0/OPatch

cd /mnt/dbbkp/sources_oracle/19cR3/patch/30501910/30557433/
opatch prereq CheckConflictAgainstOHWithDetail -ph ./

opatch apply

cd /mnt/dbbkp/sources_oracle/19cR3/patch/30501910/30489227
opatch apply

```
[oracle@vuoraacc001:ACC]$ cd $ORACLE_HOME/OPatch
[oracle@vuoraacc001:ACC]$ ./datapatch -verbose
SQL Patching tool version 19.3.0.0.0 Production on Mon Mar 22 15:34:18 2021
Copyright (c) 2012, 2019, Oracle. All rights reserved.

Log file for this invocation: /app/oracle/cfgtoollogs/sqlpatch/sqlpatch_122123_2021_03_22_15_34_18/sqlpatch_invocation.log

Connecting to database...OK
Gathering database info...done
Bootstrapping registry and package to current versions...done
Determining current state...done

Current state of interim SQL patches:
No interim patches found

Current state of release update SQL patches:
Binary registry:
19.3.0.0.0 Release_Update 190410122720: Installed
SQL registry:
Applied 19.3.0.0.0 Release_Update 190410122720 successfully on 12-MAR-21 05.00.29.266146 PM

Adding patches to installation queue and performing prereq checks...done
Installation queue:
No interim patches need to be rolled back
No release update patches need to be installed
No interim patches need to be applied
```

Patch correctif pour le bug : **Bug 28642899 : ORA-07445 [KGGHTEGETELE+10] WHEN COMPILING/CREATING A VIEW**.

```
export PATH=$PATH:/app/oracle/product/19.0/OPatch

cd /mnt/dbbkp/sources_oracle/19cR3/patch/28642899

opatch prereq CheckConflictAgainstOHWithDetail -ph ./

[oracle@vuoraacc001:ACC]$ opatch apply
Oracle Interim Patch Installer version 12.2.0.1.17
Copyright (c) 2021, Oracle Corporation. All rights reserved.

Oracle Home : /app/oracle/product/19.0
Central Inventory : /grid/oraInventory
from : /app/oracle/product/19.0/oraInst.loc
OPatch version : 12.2.0.1.17
OUI version : 12.2.0.7.0
Log file location : /app/oracle/product/19.0/cfgtoollogs/opatch/opatch2021-03-22_15-57-41PM_1.log

Verifying environment and performing prerequisite checks...
OPatch continues with these patches: 28642899

Do you want to proceed? [y|n]
y
User Responded with: Y
All checks passed.

Please shutdown Oracle instances running out of this ORACLE_HOME on the local system.
(Oracle Home = '/app/oracle/product/19.0')

Is the local system ready for patching? [y|n]
y
User Responded with: Y
Backing up files...
Applying interim patch '28642899' to OH '/app/oracle/product/19.0'

Patching component oracle.rdbms, 19.0.0.0.0...
Patch 28642899 successfully applied.
Log file location: /app/oracle/product/19.0/cfgtoollogs/opatch/opatch2021-03-22_15-57-41PM_1.log

OPatch succeeded.
```

Vérification :

opatch lsinventory |grep 28642899

Charger les fichiers SQL modifiées dans la base :

Steps	Standalone DB	Steps	Single/Multitenant (CDB/PDB) DB
1	% sqlplus /nolog	1	% sqlplus /nolog
2	SQL> Connect / as sysdba	2	SQL> Connect / as sysdba
3	SQL> startup	3	SQL> startup
4	SQL> quit	4	SQL> alter pluggable database all open;[Foot 1]
5	% cd $ORACLE_HOME/OPatch	5	SQL> quit
6	% ./datapatch -verbose	6	% cd $ORACLE_HOME/OPatch
		7	% ./datapatch -verbose

Mise à jour d'Opatch

mv p6880880_190000_Linux-x86-64.zip $ORACLE_HOME
cd $ORACLE_HOME
mv OPatch OPatch_old
unzip p6880880_190000_Linux-x86-64.zip

Relink du Grid
export GRID_HOME=/grid/oracle/product/19.3
$GRID_HOME/bin/relink
writing relink log to: /grid/oracle/product/19.3/install/relinkActions2021-03-23_08-17-08PM.log

Patch sur PDB :

```
[oracle@vuoratit001:CTIT]$ cd $ORACLE_HOME/OPatch
[oracle@vuoratit001:CTIT]$ ./datapatch -verbose
SQL Patching tool version 19.3.0.0.0 Production on Wed Mar 24 08:57:05 2021
Copyright (c) 2012, 2019, Oracle.  All rights reserved.

Log file for this invocation: /app/oracle/cfgtoollogs/sqlpatch/sqlpatch_72662_2021_03_24_08_57_05/sqlpatc

Connecting to database...OK
Gathering database info...done

Note:   Datapatch will only apply or rollback SQL fixes for PDBs
        that are in an open state, no patches will be applied to closed PDBs.
        Please refer to Note: Datapatch: Database 12c Post Patch SQL Automation
        (Doc ID 1585822.1)

Bootstrapping registry and package to current versions...done
Determining current state...done

Current state of interim SQL patches:
  No interim patches found

Current state of release update SQL patches:
  Binary registry:
    19.3.0.0.0 Release_Update 190410122720: Installed
  PDB CDB$ROOT:
    Applied 19.3.0.0.0 Release_Update 190410122720 successfully on 29-DEC-20 10.57.46.749268 AM
  PDB PDB$SEED:
    Applied 19.3.0.0.0 Release_Update 190410122720 successfully on 29-DEC-20 11.02.48.988091 AM
  PDB TIT:
    Applied 19.3.0.0.0 Release_Update 190410122720 successfully on 29-DEC-20 11.02.48.988091 AM

Adding patches to installation queue and performing prereq checks...done
Installation queue:
  For the following PDBs: CDB$ROOT PDB$SEED TIT
    No interim patches need to be rolled back
    No release update patches need to be installed
    No interim patches need to be applied

SQL Patching tool complete on Wed Mar 24 08:57:27 2021
```

Mettre à jour le catalogue RMAN

```
$ rman catalog username/password@alias
RMAN> UPGRADE CATALOG;
RMAN> UPGRADE CATALOG;
RMAN> EXIT;
```