

18) Topic:- Oracle 11g R2 Upgrade 11.2.0.1.0 to 12.1.0.1.0

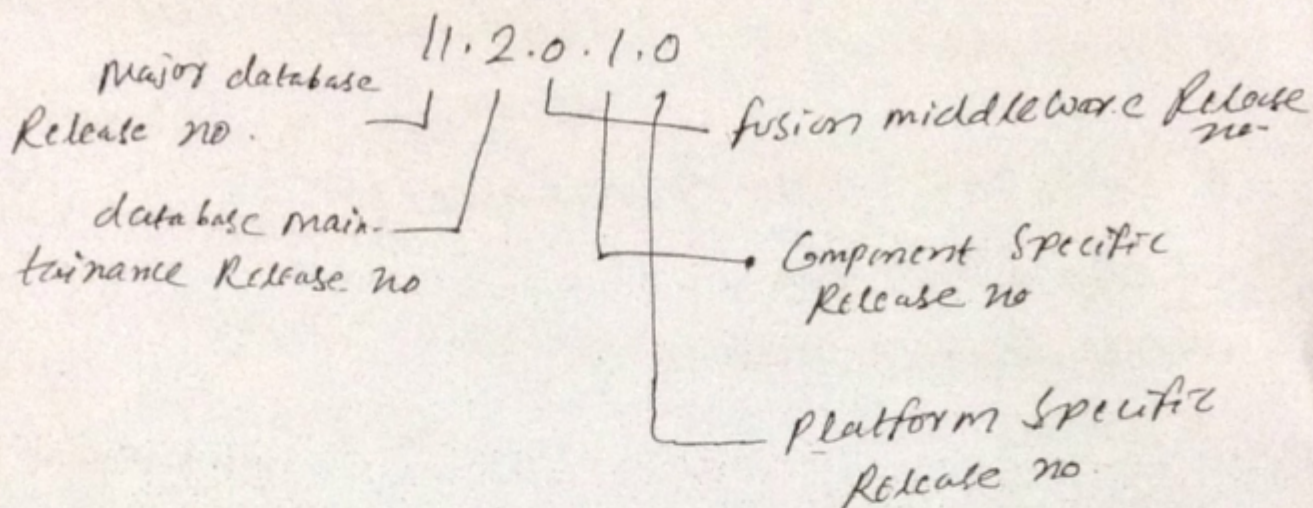


Fig:- Oracle Database Release Number Format

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Database Releases :-

→ 11g Release 2

11.2.0.1.0 (Aug 2009)

11.2.0.2.0 (Nov 2010)

11.2.0.3.0 (September 2011)

11.2.0.4.0 (Aug 2013)

→ 12c Release 1

12.1.0.1.0 (June 2013)

12.1.0.1.1 (Oct 2013) (PSU)

12.1.0.1.2 (Jan 2014) (PSU)

Oracle Database:-

* Direct Upgrade:- 10.2.0.5/11.1.0.7/11.2.0.2 upgrade to 12.1.0.1

- In-Place upgrade — install binaries in same ORACLE_HOM
- Out-of-Place upgrade — install binaries in new ORACLE_HOME (Recommended)
- Upgrade using DBUA (Database Upgrade Assistant) or manual upgrade.

* Indirect Upgrade:-

Migrate using Data Pump Utility.

Transportable Tablespaces

Golden Gate Replication

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Practical:- 11.2.0.1 to 11.2.0.4 Upgrade using (Out-of-Place method).

date

cat /etc/oracle-release

uname -r

uname -a

x86_64 (Intel 64 bit Server).

uname -p

cat /etc/oratab

cat /u01/... /db-home/orainst.loc

cat /u01/app/oracle/contentsXML/inventory.xml

→ The Inventory.xml contains all previously installed Oracle Home Locations.

```
# ps -ef | grep -i smon  
          (Oracle) running.
```

```
# $ oraenv  
      :ora
```

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```
# $ lsnrctl status
```

```
# CLS... (version: 11.2.01.0)
```

```
# sqlplus / as sysdba
```

```
SQL> select instance_name, host_name, version, status  
       from v$instance;
```

```
SQL> select comp_name, version, status from dba_registry;
```

<u>Version</u>	<u>Status</u>
11.2.01.0	VALID

```
SQL> EXIT
```

```
$ ls -lh /opt/db_11204_disk1.zip  
... disk2.zip
```

```
$ unzip db_11204_disk2.zip
```

```
$ unzip db_11204_disk2.zip
```

```
$ cd /database:
```

```
$ mkdir -p /vol/app/... /dbhome_2
```

```
$ ll /vol/app/oracle/product(11.2.0)
```

```
... : dbhome_1  
... dbhome_2
```


\$ cd /opt/database/

\$ ll

\$ export ORACLE_HOME = /u01/app/oracle/product/11.2.0/db-home-2

\$./runInstaller

Next

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SWP Software Updates

- Install db &fw only

Next

- Single instance

Next

- English

Next

→ EE → Oracle Partitioning

- ~~Install db software only~~

Next

oracle-base: /u01/app/oracle

oracle-home: /u01/app... /db-home 2

Next

:dba

:opci

Next

Swap size error Ignore ✓

Next

Save Response File

/u01/app/oracle/db_1120410-1.rsp

Next

Install

/u01/app/oracle/product/11.2.0/dbhome_2/\$oot-sh

overwrite N(y) : y
n/y: y

OK

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Close

Now, we will start DBA from dbhome_2,

\$ /u01/app/oracle/product/11.2.0/dbhome_2/bin/dbua &

Next

- Oracle (or existing db which we want to upgrade)

Next

warnings! (YES)

Recompile

Degree of Parallelism 4

Upgrade Timezone Version - -

Backup database

Backup directory /u03/app/oracle/tra/orcl/backup

\$mkdir -p /u03/app/oracle/tra/orcl/backup

- Do Not move Database files as part of Upgrade

Next

Fast-Recovery Area /u03/app/oracle/tra

20480 or any other size specified

Next ^{Review} & Finish

4. Upgrading OLAP It's OK we are not using it

Completed OK ✓

Review each and everything in Summary window & after reviewing

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Close ✓

\$ ls -lh /u03/app/oracle/ha/~~test~~^{old}/backup/

..... old_restore.sh

(If we are not happy with the upgrade we can restore it back)

\$ cat /etc/oratab

oracle: - - - - dbhome-2:11 ✓

\$ cat /etc/orainventory/contents.xml/inventory.xml

-- dbhome-1 --

= dbhome-2 -

\$ cp /u01/app/oracle/product/11.2.0/dbhome_1/network/admin/listener.ora

- /u02/app/oracle/product/11.2.0/dbhome_2/network/admin

\$ cp \$ORACLE_HOME/network/admin/tnsnames.ora

/u01/app/oracle/product/11.2.0/dbhome_2/network/admin

\$ ps -ef | grep -i smon

\$. oraenv

oracle

\$ echo \$ORACLE_HOME

.. dbhome_2

\$!snrctl stop

\$!snrctl start

\$!snrctl status

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11.2.0.4

|vol| . . . |dbhome-2|network|admin|listener.
ora

\$ cd

\$ emctl status dbconsole

\$ export SID=orcl

<dbhome-2>

\$ sqlplus / as sysdba

SQL> select instance_name, host_name, version, status from
v\$instance;

(11.2.0.4).

SQL> host clear

SQL> select comp_name, version, status from dba_registry;

OWB

11.2.01.

VALID.

(can be upgraded later independantly)

OLAP

11.2.01

OPTION OFF

SQL> select comp_name, version, status from dba_registry
where status <> 'INVALID';

SQL> select to_char(action_time, 'DD-MON-YY HH:MI:SS
AM')

Upgrade date, Comments source-version, version target-version from dba_registry_history where action = 'UPGRAD.

Note: - (To know the date & upgrade source version to target version)

SQL> EXIT

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\$ cd /u01/app/oracle/product/11.2.0/dbhome-1/deinstall/

\$ pwd

\$ ll

\$./deinstall

[LISTENER]: ←

[OracleHome]: ←

∞ ∞ ∞ Oracle Deinstall & deconfig Tool End ∞ ∞ ∞

\$ cd /u01/app/oracle/product/11.2.0/

\$ pwd

\$ ll

<dbhome-2>

\$ cd

\$ oraenv

:orcl

\$ lsnrctl status

\$ lsnrctl start

\$ emctl status dbconsole

\$ sqlplus / as sysdba

SOL) Select name, open_mode from v\$database;
SOL) Select instance_name, host_name, version, status
FROM v\$instance;

<11.2.0.4>

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😊 < Upgrade Completed > 😊