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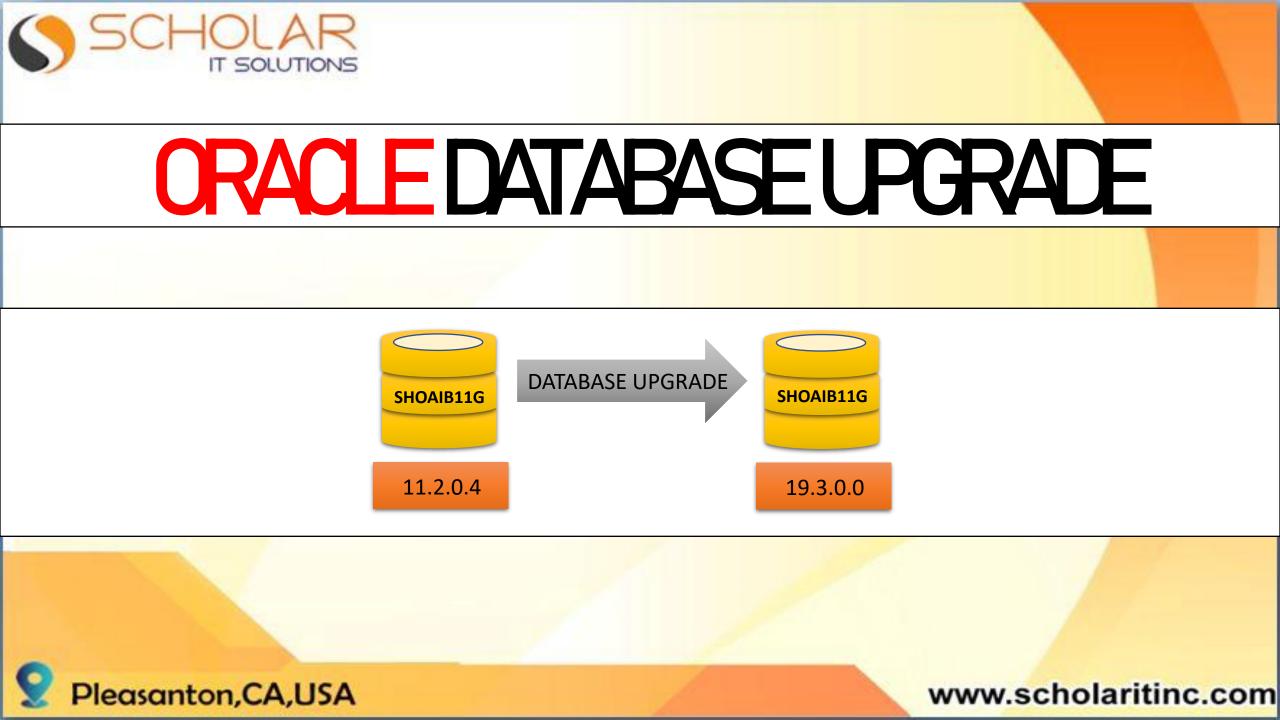


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WEENAR ON ORACLE DATABASE UPGRADE







UPGRADE METHODS

DATABASE UPGRADE ASSISTANT (DBUA)



TRANSPORT TABLESPACE

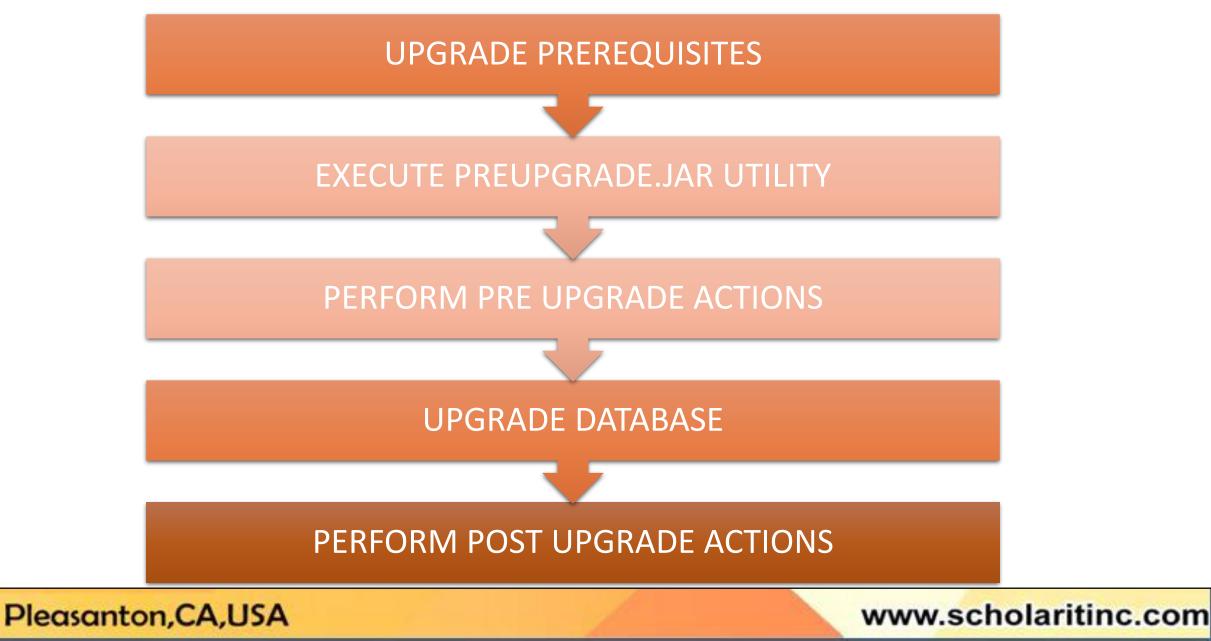
DATAPUMP EXPORT/IMPORT

GOLDENGATE REPLICATION





LPGRADE MAJOR STEPS





•

OLR EMROMENT

	SOURCE	TARGET
HOSTNAME/SERVER NAME	OMMAC1	OMMAC1
OS	Red Hat Enterprise Linux Server release 7.9 (Maipo)	Red Hat Enterprise Linux Server release 7.9 (Maipo)
DATABASE VERSION	11.2.0.4	19.3
DATABASE NAME	SHOAIB11g	SHOAIB11g
SINGLE INSTANCE / RAC	SINGLE INSTANCE	SINGLE INSTANCE
ORACLE HOME	/u01/app/oracle/product/11.2.0.4/db_1	/u02/app/oracle/product/19.0.0/dbhome_1





11g BNARES INSTALLATION





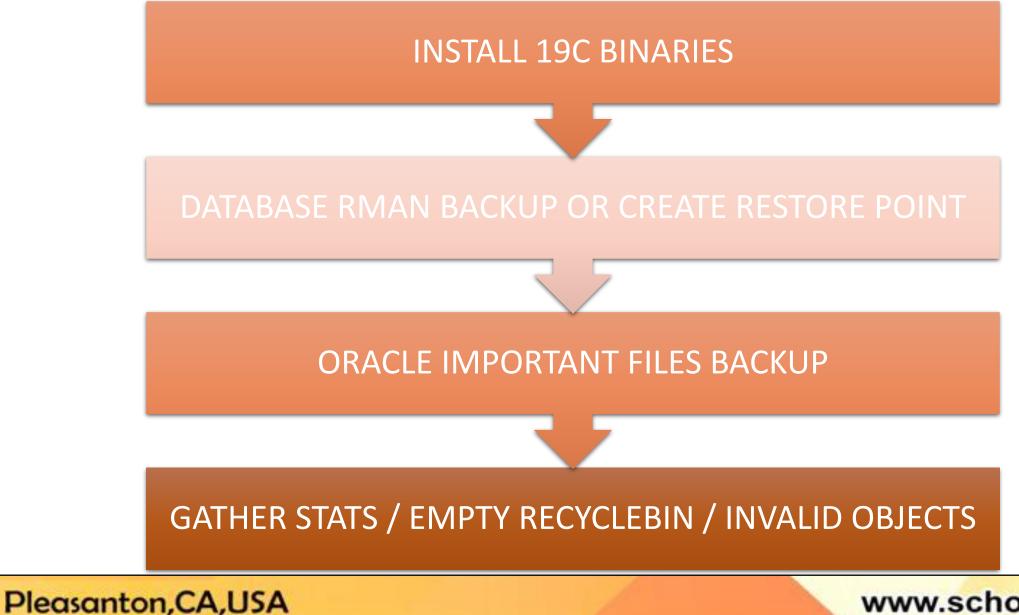


11g DATABASE CONFIGRATION 11g Database Install





UPGRADE PREREQUISITES





INSTAL 19C BINARES 19c Binaries Install







PRE-UPGRADE ORACLE IMP FILES BACKUP



```
[oracle@OMmac1 ~]$ mkdir -p /u01/11g files backup
[oracle@OMmac1 ~]$
[oracle@OMmac1 ~]$ cp /u01/app/oracle/product/11.2.0.4/db 1/network/admin/listener.ora /u01/11g files backup/listener.ora.bkp
[oracle@OMmac1 ~]$ cp /u01/app/oracle/product/11.2.0.4/db 1/network/admin/tnsnames.ora /u01/11g files backup/tnsnames.ora.bkp
[oracle@OMmac1 ~]$ cp /u01/app/oracle/product/11.2.0.4/db 1/network/admin/sqlnet.ora /u01/11g files backup/sqlnet.ora.bkp
cp: cannot stat \/u01/app/oracle/product/11.2.0.4/db 1/network/admin/sqlnet.ora': No such file or directory
[oracle@OMmac1 ~]$ cp /u01/app/oracle/product/11.2.0.4/db 1/dbs/spfileshoaib11g.ora /u01/11g files backup/spfileshoaib11g.ora.bkp
[oracle@OMmac1 ~]$ cp /u01/app/oracle/product/11.2.0.4/db 1/dbs/orapwshoaib11g /u01/11g files backup/orapwshoaib11g.bkp
[oracle@OMmac1 ~]$
[oracle@OMmac1 ~]$ ls -lrth /u01/11g files backup/
total 16K
-rw-r--r-. 1 oracle oinstall 333 Jun 5 17:38 listener.ora.bkp
-rw-r----. 1 oracle oinstall 345 Jun 5 17:38 tnsnames.ora.bkp
-rw-r----. 1 oracle oinstall 3.5K Jun 5 17:38 spfileshoaib11g.ora.bkp
-rw-r----. 1 oracle oinstall 1.5K Jun 5 17:38 orapwshoaib11g.bkp
[oracle@OMmac1 ~]$
```





SQL> select name, open_mode, database_role from v\$database;

NAME	OPEN_MODE	DATABASE_ROLE				
SHOAIB11	READ WRITE	PRIMARY	_			
SQL> EXEC	DBMS_STATS.GATHER_DIG	CTIONARY_STATS;				
PL/SQL pro	ocedure successfully o	completed.				
SQL> PURGE DBA_RECYCLEBIN;						
DBA Recycl	lebin purged.					
SQL> seled	ct count(*) from dba_	bjects where st	atus='INVALID';			
COUNT (*)						
	-)					





PREUPGRADE.JAR





RUN PREUPGRADE.JAR SCRIPT

[oracle@OMmac1	~]\$			
[oracle@OMmac1	~]\$	mkdir	-p	/u01/11g19cUpgradeSpool/preupgrade
[oracle@OMmac1	~]\$			

[oracle@OMmac1 ~]\$

[oracle@OMmac1 ~]\$ \$ORACLE_HOME/jdk/bin/java -jar /u02/app/oracle/product/19.0.0/dbhome_1/rdbms/admin/preupgrade.jar FILE DIR /u01/11g19cUpgradeSpool/preupgrade

PREUPGRADE SUMMARY

/u01/11g19cUpgradeSpool/preupgrade/preupgrade.log /u01/11g19cUpgradeSpool/preupgrade/preupgrade_fixups.sql /u01/11g19cUpgradeSpool/preupgrade/postupgrade_fixups.sql

Execute fixup scripts as indicated below:

Before upgrade:

Log into the database and execute the preupgrade fixups @/u01/11g19cUpgradeSpool/preupgrade/preupgrade_fixups.sql

After the upgrade:

Log into the database and execute the postupgrade fixups @/u01/11g19cUpgradeSpool/preupgrade/postupgrade_fixups.sql

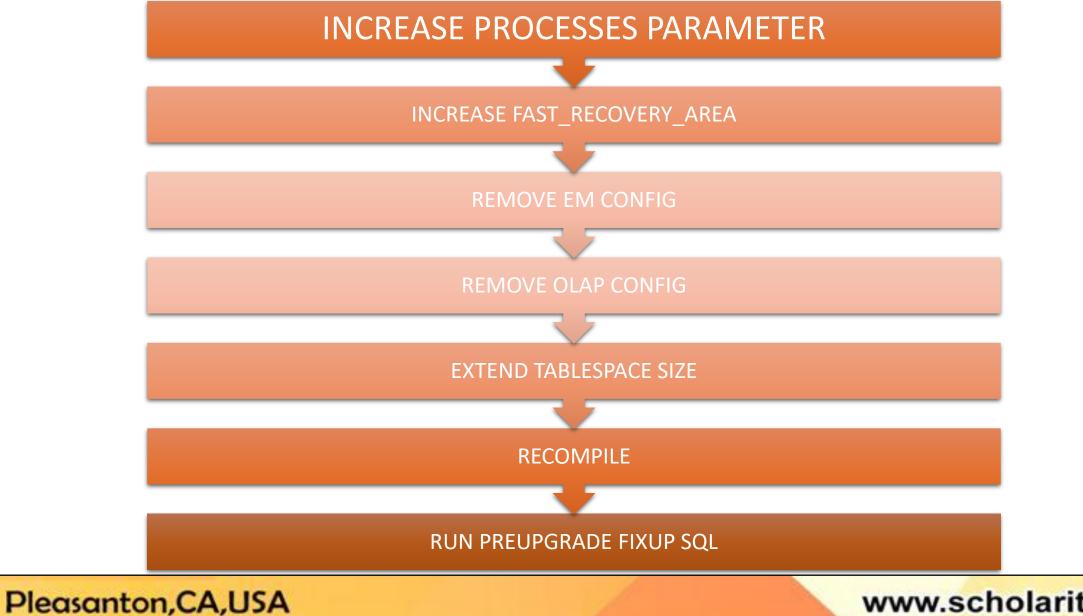
Preupgrade complete: 2022-06-05T18:14:55 [oracle@OMmac1 ~]\$



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PRELPGRADE ACTION STEPS



BEFORE UPGRADE RECOMMENDATION - INCREASE PROCESSES

SQL> show parameter processes

NAME	TYPE	VALUE
aq_tm_processes	integer	1
db_writer_processes	integer	1
gcs_server_processes	integer	0
global_txn_processes	integer	1
job_queue_processes	integer	1000
log archive max processes	integer	4
processes	integer	150
SQL>		

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SQL>

SQL> alter system set processes=300 scope=spfile;

System altered.

SQL> shut immediate Database closed. Database dismounted. ORACLE instance shut down. SQL> SQL> SQL> startup ORACLE instance started.

Variable Size 838863 Database Buffers 2751463	264 bytes 480 bytes 312 bytes 424 bytes 048 bytes	
NAME	TYPE	VALUE
<pre>aq_tm_processes db_writer_processes gcs_server_processes global_txn_processes job_queue_processes log_archive_max_processes processes SQL></pre>	integer integer integer integer integer integer integer integer	1 1 0 1 1000 4 300





BEFORE UPGRADE RECOMMENDATION – INCREASE FRA

Connected to:

Oracle Database llg Enterprise Edition Release 11.2.0.4.0 - 64bit Production With the Partitioning, OLAP, Data Mining and Real Application Testing options				
SQL> show parameter	db_recovery_fil	.e		
NAME		TYPE	VALUE	
db_recovery_file_des	t	string	/u01/app/oracle/fast_recovery_	
db_recovery_file_des SQL>	t_size	big integ	er 4182M	
-	db_recovery_fi	le_dest_siz	e=8214M scope=spfile;	
System altered.				
SQL> shutdown immedi Database closed.	ate			
Database dismounted. ORAC <u>LE instance shut</u>	down.			
SQL> startup ORACLE instance start	ed.			
Total System Global A	rea 3607691264	bytes		
	2258480	-		
Variable Size	771754448	-		
Database Buffers		-		
Redo Buffers	15106048	bytes		
Database mounted.				
Database opened. SQL> show parameter	dh recovery fil	-		
SATA SHOW barameter	mp_recovery_111	.e		
NAME		TYPE	VALUE	
db_recovery_file_dest		string	/u01/app/oracle/fast_recovery_	
db_recovery_file_dest SQL> []	_size	big intege	r 8214M	



BEFORE UPGRADE RECOMMENDATION - REMOVE OLAP CATALOG.

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	[oracle@OMmacl ~]\$ sqlplus "/ as sysdba"			
	SQL*Plus: Release 11.2.0.4.0 Production on Sun Jun 5 19:58:16 2022			
	Copyright (c) 1982, 2013, Oracle. All rights reserved.			
	Connected to: Oracle Database llg Enterprise Edition Release 11.2.0.4.0 - 64bit Production With the Partitioning, OLAP, Data Mining and Real Application Testing options SQL> @\$ORACLE_HOME/olap/admin/catnoamd.sql Synonym dropped.			
	Synonym dropped.			
	Synonym dropped.			
	Synonym dropped.			
	Type dropped.			
	Type dropped.			
	PL/SQL procedure successfully completed.			
	Role dropped.			
	PL/SQL procedure successfully completed.			
	l row deleted.			
	SQL>			



SCHOLAR BEFORE UPGRADE RECOMMENDATION - EXTEND DATAFILES.

SQL> set lines 300

SQL> set pages 20

SQL> col name for a50

SQL> select name,BYTES/1024/1024 "Size MB" from v\$datafile

2 union

3 select name,BYTES/1024/1024 "Size MB" from v\$tempfile;

NAME	Size MB
/u01/app/oracle/oradata/shoaibllg/sysaux01.dbf	640
/u01/app/oracle/oradata/shoaibllg/system01.dbf	790
/u01/app/oracle/oradata/shoaibllg/temp01.dbf	20
/u01/app/oracle/oradata/shoaibllg/undotbs01.dbf	255
/u01/app/oracle/oradata/shoaibllg/users01.dbf	5

SQL>

SQL> alter database datafile '/u01/app/oracle/oradata/shoaibllg/sysaux01.dbf' resize 800M; alter database datafile '/u01/app/oracle/oradata/shoaibllg/system01.dbf' resize 1200M; alter database tempfile '/u01/app/oracle/oradata/shoaibllg/temp01.dbf' resize 150M; alter database datafile '/u01/app/oracle/oradata/shoaibllg/undotbs01.dbf' resize 446M;

Database altered.

SQL>

Database altered.

SQL> Database altered.

SQL> Database altered.

SQL>





BEFORE UPGRADE RECOMMENDATION - RECOMPILE.

[oracle@OMmac1 ~]\$ [oracle@OMmacl ~]\$ sqlplus "/ as sysdba" SOL*Plus: Release 11.2.0.4.0 Production on Sun Jun 5 21:19:24 2022 Copyright (c) 1982, 2013, Oracle. All rights reserved. Connected to: Oracle Database llg Enterprise Edition Release 11.2.0.4.0 - 64bit Production With the Partitioning, OLAP, Data Mining and Real Application Testing options SQL> @\$ORACLE HOME/rdbms/admin/utlrp.sql TIMESTAMP _____ COMP TIMESTAMP UTLRP BGN 2022-06-05 21:20:27 DOC> The following PL/SQL block invokes UTL RECOMP to recompile invalid DOC> objects in the database. Recompilation time is proportional to the DOC> number of invalid objects in the database, so this command may take ERRORS DURING RECOMPILATION _____ 0 Function created. PL/SQL procedure successfully completed. Function dropped. ... (21:20:38) Starting validate apex for APEX 200100 ... (21:20:38) Checking missing sys privileges ... (21:20:38) Re-generating APEX 200100.wwv flow db version ... www flow db version is up to date ... (21:20:38) Checking invalid public synonyms ... (21:20:38) Key object existence check ... (21:20:38) Setting DBMS Registry for APEX to valid ...(21:20:38) Exiting validate apex

PL/SQL procedure successfully completed.

SQL>



BEFORE UPGRADE RECOMMENDATION - RECOMPILE.

SQL>		
SQL> :	set pages 100	
SQL>	SET SERVEROUTPUT ON;	
SQL>	EXECUTE DBMS_PREUP.INVALID_OBJECTS;	
SYS/S	YSTEM INVALID OBJECTS	
OWNER	OBJECT_NAME	
OBJE	CT_TYPE	
OWNER	YS/SYSTEM INVALID OBJECTS OBJECT_NAME CT_TYPE	
PL/SQ	L procedure successfully completed.	
SQL>		

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BEFORE UPGRADE RECOMMENDATION - RECHECK

	u01/11g19cUpgradeSp ng Oracle PRE-Upgra		eupgrade_fixups.sql
Auto-Ge	enerated by: 0	racle Preupgrade S	Script
	V	ersion: 19.0.0.0.0) Build: 1
Generat	ed on: 2	022-06-05 18:14:53	3
for Sou	irce Database: Si	HOAIB11	
Source	Database Version: 1	L.2.0.4.0	
for Upd	rade to Version: 1	9.0.0.0.0	
Preup		Preupgrade	
Action		Issue Is	
Number	Preupgrade Check Na	ame Remedied	Further DBA Action
1.	min_recovery_area_	size YES	None.
	parameter min val	YES	None.
з.	em present	YES	None.
4.	amd exists	YES	None.
5.	apex manual upgrade	e YES	None.
6.	trgowner no admndb	rg YES	None.
7.	pre fixed objects	YES	None.
8.	tablespaces info	NO	Informational only.
			Further action is optional.
9.	exf rul exists	NO	Informational only.
			Further action is optional.
10.	rman recovery vers	ion NO	Informational only.

The fixup scripts have been run and resolved what they can. However, there are still issues originally identified by the preupgrade that have not been remedied and are still present in the database. Depending on the severity of the specific issue, and the nature of the issue itself, that could mean that your database is not ready for upgrade. To resolve the outstanding issues, start by reviewing the preupgrade_fixups.sql and searching it for the name of the failed CHECK NAME or Preupgrade Action Number listed above. There you will find the original corresponding diagnostic message from the preupgrade which explains in more detail what still needs to be done.

PL/SQL procedure successfully completed.

SQL>



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UPGRADE DATABASE STEPS



STOP LISTENER

[oracle@OMmacl ~]\$ ps -ef|grep -i tns root 16 2 0 00:41 ? 00:00:00 [netns] 4068 1 0 16:21 ? oracle 00:00:01 /u01/app/oracle/product/11.2.0.4/db 1//bin/tnslsnr LISTENER11G -inherit 8533 453 0 21:50 pts/1 00:00:00 grep --color=auto -i tns oracle [oracle@OMmacl ~]\$ [oracle@OMmac1 ~]\$ lsnrct1 status LISTENER11G LSNRCTL for Linux: Version 11.2.0.4.0 - Production on 05-JUN-2022 21:51:05 Copyright (c) 1991, 2013, Oracle. All rights reserved. Connecting to (DESCRIPTION=(ADDRESS=(PROTOCOL=TCP)(HOST=OMMAC1.localdomain)(PORT=1521))) STATUS of the LISTENER _____ Alias LISTENER11G Version TNSLSNR for Linux: Version 11.2.0.4.0 - Production Start Date 05-JUN-2022 16:21:44 Uptime 0 days 5 hr. 29 min. 21 sec Trace Level off Security ON: Local OS Authentication SNMP OFF Listener Parameter File /u01/app/oracle/product/11.2.0.4/db 1/network/admin/listener.ora /u01/app/oracle/diag/tnslsnr/OMmacl/listenerllg/alert/log.xml Listener Log File Listening Endpoints Summary... (DESCRIPTION=(ADDRESS=(PROTOCOL=tcp)(HOST=OMmacl)(PORT=1521))) Services Summary... Service "shoaibllg" has 1 instance(s). Instance "shoaibllg", status READY, has 1 handler(s) for this service... Service "shoaibllgXDB" has 1 instance(s). Instance "shoaibllg", status READY, has 1 handler(s) for this service... The command completed successfully [oracle@OMmacl ~]\$ [oracle@OMmacl ~]\$ lsnrctl stop LISTENER11G LSNRCTL for Linux: Version 11.2.0.4.0 - Production on 05-JUN-2022 21:51:11 Copyright (c) 1991, 2013, Oracle. All rights reserved. Connecting to (DESCRIPTION=(ADDRESS=(PROTOCOL=TCP)(HOST=OMMAC1.localdomain)(PORT=1521))) The command completed successfully [oracle@OMmacl ~]\$

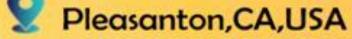


IT SOLUTIONS



SHUTDOWN DATABASE

```
[oracle@OMmacl ~]$ sqlplus "/ as sysdba"
SOL*Plus: Release 11.2.0.4.0 Production on Sun Jun 5 21:58:52 2022
Copyright (c) 1982, 2013, Oracle. All rights reserved.
Connected to:
Oracle Database 11g Enterprise Edition Release 11.2.0.4.0 - 64bit Production
With the Partitioning, OLAP, Data Mining and Real Application Testing options
SQL> select name, open mode, database role from v$database;
NAME
          OPEN MODE
                               DATABASE ROLE
SHOAIB11 READ WRITE
                               PRIMARY
SQL> shutdown immediate
Database closed.
Database dismounted.
ORACLE instance shut down.
SOL>
SQL>
```



PRE-UPGRADE MOVE FILES TO 19c ORACLE HOME



[oracle@OMmacl ~]\$
[oracle@OMmacl ~]\$ cp /u01/app/oracle/product/11.2.0.4/db_1/dbs/spfileshoaibllg.ora /u02/app/oracle/product/19.0.0/dbhome_1/dbs/spfileshoaibllg.ora
[oracle@OMmacl ~]\$ cp /u01/app/oracle/product/11.2.0.4/db_1/dbs/orapwshoaibllg /u02/app/oracle/product/19.0.0/dbhome_1/dbs/orapwshoaibllg
[oracle@OMmacl ~]\$
[oracle@OMmacl ~]\$
[oracle@OMmacl ~]\$ ls -lrth /u02/app/oracle/product/19.0.0/dbhome_1/dbs/
[oracle@OMmacl ~]\$ ls -lrth /u02/app/oracle/product/19.0.0/dbhome_1/dbs/
total 12K
-rw-r----. 1 oracle oinstall 3.1K May 14 2015 init.ora
-rw-r----. 1 oracle oinstall 1.5K Jun 5 22:13 spfileshoaibllg.ora
-rw-r----. 1 oracle oinstall 1.5K Jun 5 22:14 orapwshoaibllg
[oracle@OMmacl ~]\$ [





START DATABASE IN UPGRADE MODE FROM 19c ORACLE HOME

[oracle@OMmacl ~]\$ 19ce [oracle@OMmac1 ~]\$ echo \$ORACLE HOME /u02/app/oracle/product/19.0.0/dbhome 1 [oracle@OMmac1 ~]\$ [oracle@OMmacl ~]\$. oraenv ORACLE SID = [shoaibllg] ? The Oracle base remains unchanged with value /u02/app/oracle [oracle@OMmacl ~]\$ sqlplus "/ as sysdba" SOL*Plus: Release 19.0.0.0.0 - Production on Sun Jun 5 22:29:55 2022 Version 19.3.0.0.0 Copyright (c) 1982, 2019, Oracle. All rights reserved. Connected to an idle instance. SQL> startup upgrade ORACLE instance started. Total System Global Area 3623876800 bytes Fixed Size 8902848 bytes Variable Size 721420288 bytes Database Buffers 2885681152 bytes Redo Buffers 7872512 bytes Database mounted. Database opened. SQL> set lines 300 SQL> select name,open mode,database role,cdb,version,status from v\$database,v\$instance; OPEN_MODE NAME DATABASE_ROLE CDB VERSION STATUS OPEN MIGRATE SHOAIB11 READ WRITE PRIMARY NO 19.0.0.0.0 SQL>



RUN DBUPGRADE FROM 19c ORACLE HOME

[oracle@OMmacl ~]\$ cd \$ORACLE HOME/bin [oracle@OMmacl bin]\$ pwd /u02/app/oracle/product/19.0.0/dbhome 1/bin [oracle@OMmacl bin]\$ [oracle@OMmacl bin]\$./dbupgrade -n 6 Argument list for [/u02/app/oracle/product/19.0.0/dbhome 1/rdbms/admin/catctl.pl] For Oracle internal use only A = 0Run in c = 0 Do not run in C = 0Input Directory d = 0Echo OFF e = 1 Simulate $\mathbf{E} = \mathbf{0}$ Forced cleanup F = 0Log Id i = 0 Child Process I = 0Log Dir 1 = 0Priority List Name L = 0Upgrade Mode active M = 0SQL Process Count n = 6 SQL PDB Process Count N = 0Open Mode Normal o = 0 Start Phase р = 0 End Phase P = 0Reverse Order r = 0AutoUpgrade Resume $\mathbf{R} = \mathbf{0}$ Script s = 0 Serial Run S = 0RO User Tablespaces T = 0Display Phases v = 0Debug catcon.pm z = 0Debug catctl.pl Z = 0catctl.pl VERSION: [19.0.0.0.0] STATUS: [Production] BUILD: [RDBMS 19.3.0.0.0DBRU LINUX.X64 190417] /u02/app/oracle/product/19.0.0/dbhome_1/rdbms/admin/orahome = [/u02/app/oracle/product/19.0.0/dbhome_1] /u02/app/oracle/product/19.0.0/dbhome 1/bin/orabasehome = [/u02/app/oracle/product/19.0.0/dbhome 1] catctlGetOraBaseLogDir = [/u02/app/oracle/product/19.0.0/dbhome 1]

Analyzing file /u02/app/oracle/product/19.0.0/dbhome_1/rdbms/admin/catupgrd.sql

Log file directory = [/tmp/cfgtoollogs/upgrade20220605223421]



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AFTER UPGRADE START DATABASE FROM 19C ORACLE HOME

```
[oracle@OMmac1 ~]$ 19ce
[oracle@OMmac1 ~]$ echo $ORACLE HOME
/u02/app/oracle/product/19.0.0/dbhome 1
[oracle@OMmacl ~]$ . oraenv
ORACLE SID = [shoaibllg] ?
The Oracle base remains unchanged with value /u02/app/oracle
[oracle@OMmacl ~]$ sqlplus "/ as sysdba"
SOL*Plus: Release 19.0.0.0.0 - Production on Sun Jun 5 23:38:50 2022
Version 19.3.0.0.0
Copyright (c) 1982, 2019, Oracle. All rights reserved.
Connected to an idle instance.
SQL> startup
ORACLE instance started.
Total System Global Area 3623876800 bytes
Fixed Size
                          8902848 bytes
Variable Size
                       822083584 bytes
                       2785017856 bytes
Database Buffers
Redo Buffers
                            7872512 bytes
Database mounted.
Database opened.
SQL> set lines 300
SQL> select name, open mode, database role, cdb, version, status from v$database, v$instance;
NAME
          OPEN_MODE
                               DATABASE ROLE
                                                CDB VERSION
                                                                      STATUS
                                                NO 19.0.0.0.0
                                                                      OPEN
SHOAIB11 READ WRITE
                               PRIMARY
SQL>
```



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AFTER UPGRADE CHECK DBA_REGISTRY

SQL> set pages 50

SQL> col COMP NAME for a50

SQL> Select comp_name,comp_id,version,status from dba_registry;

COMP_NAME	COMP_ID	VERSION	STATUS
Oracle Database Catalog Views	CATALOG	19.0.0.0	UPGRADED
Oracle Database Packages and Types	CATPROC	19.0.0.0	UPGRADED
JServer JAVA Virtual Machine	JAVAVM	19.0.0.0	UPGRADED
Oracle XDK	XML	19.0.0.0	UPGRADED
Oracle Database Java Packages	CATJAVA	19.0.0.0	UPGRADED
OLAP Analytic Workspace	APS	19.0.0.0	UPGRADED
Oracle Real Application Clusters	RAC	19.0.0.0	OPTION OFF
Oracle Workspace Manager	OWM	19.0.0.0	UPGRADED
Oracle Text	CONTEXT	19.0.0.0	UPGRADED
Oracle XML Database	XDB	19.0.0.0	UPGRADED
Oracle Multimedia	ORDIM	19.0.0.0	UPGRADED
Spatial	SDO	19.0.0.0	UPGRADED
Oracle OLAP API	XOQ	19.0.0.0	UPGRADED
Oracle Application Express	APEX	20.1.0.00.13	VALID

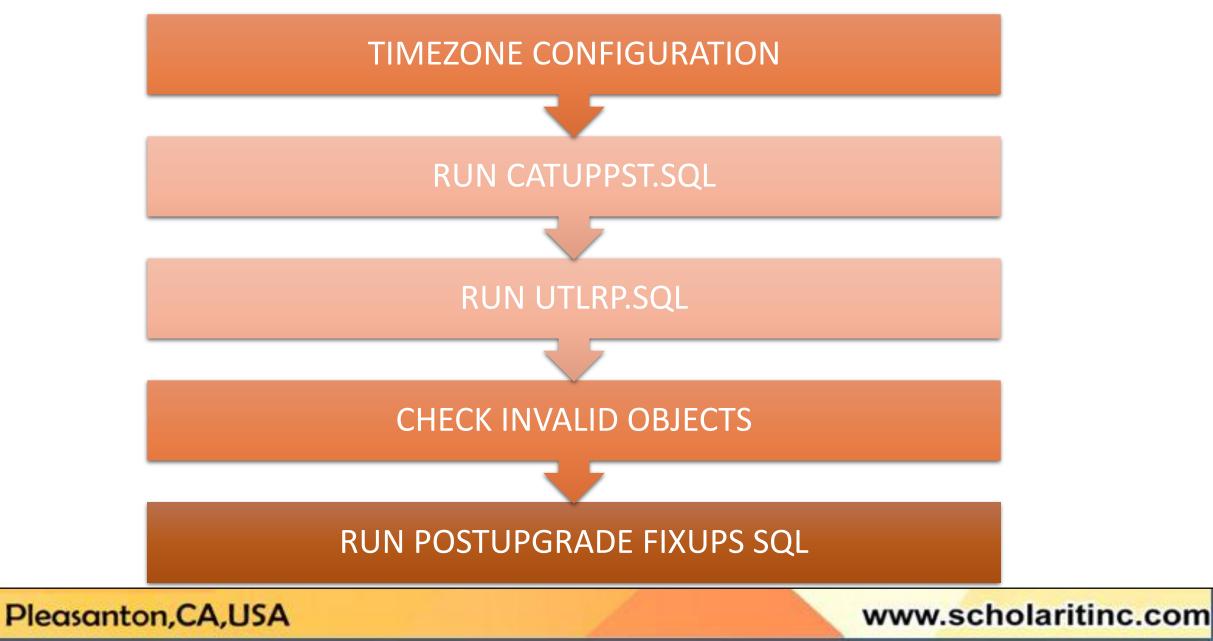
14 rows selected.

SQL>





POSTUPGRADE ACTION STEPS



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RUN POSTUPGRADE_FIXUPS.SQL SCRIPT

SQL> @/u01/11g19cUpgradeSpool/preupgrade/postupgrade_fixups.sql Session altered.	Auto-Generated by: Oracle Preupgrade Script Version: 19.0.0.0.0 Build: 1 Generated on: 2022-06-05 18:14:55
PL/SQL procedure successfully completed.	For Source Database: SHOAIB11 Source Database Version: 11.2.0.4.0 For Upgrade to Version: 19.0.0.0.0
PL/SQL procedure successfully completed.	Preup Action Issue Is Number Preupgrade Check Name Remedied Further DBA Action
PL/SQL procedure successfully completed.	Number Frequencies 11. old_time_zones_exist 12. dir symlinks YES None.
Package created.	13. post_dictionaryYESNone.14. post_fixed_objectsNOInformational only.
No errors.	Further action is optional. 15. upg_by_std_upgrd YES None.
Package body created. PL/SQL procedure successfully completed.	The fixup scripts have been run and resolved what they can. However, there are still issues originally identified by the preupgrade that have not been remedied and are still present in the database.
No errors.	Depending on the severity of the specific issue, and the nature of the issue itself, that could mean that your database upgrade is not fully complete. To resolve the outstanding issues, start by reviewing the postupgrade_fixups.sql and searching it for the name of the failed CHECK NAME or Preupgrade Action Number listed above.
Package created.	There you will find the original corresponding diagnostic message from the preupgrade which explains in more detail what still needs to be done.
No errors.	PL/SQL procedure successfully completed.
Package body created.	Session altered.
No errors. Executing Oracle POST-Upgrade Fixup Script	SQL>

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POST UPGRADE ACTION - TIMEZONE CONFIG.

SQL> select name,open_mode,database_role,cdb,version,status from v\$database,v\$instance;

		-	-			
NAME	OPEN_MODE	DATA	BASE_ROLE	CDB V	VERSION	STATUS
SHOAIB11	READ WRITE	PRIM	ARY	NO	19.0.0.0.0	OPEN
SQL> SELE	CT * FROM v\$ti	imezone_file;				
FILENAME		VERSION	CON_ID			
timezlrg_	14.dat	14	0			
SOL> shut	immediate					
Database						
Database	dismounted.					
ORACLE in	stance shut do	own.				
SQL>						
	tup upgrade					
ORACLE in	stance started	1.				
Total Svs	tem Global Are	ea 3623876800	bvtes			
Fixed Siz						
Variable	Size	8902848 822083584	bytes			
Database	Buffers	2785017856	bytes			
Redo Buff	ers	7872512	bytes			
Database	mounted.					
Database	opened.					
SQL>						
SQL> SET	SERVEROUTPUT (N				
DECLARE						
	ion PLS_INTEGE	ER;				
BEGIN						
	ion := DBMS_DS					
	UT.put_line('l			ersion));	
_	begin_upgrade	(1_tz_version);			
END;	3 4					
/SQL> 2 l tz vers		3 6 /	0			
	e window has h	heen successf	ully starts	d		
An upgrau	e window has i	Jeen Successi	uily starte			
PL/SOL pr	ocedure succes	sfully compl	eted.			

SQL> shutdown immediate Database closed. Database dismounted. ORACLE instance shut down.

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SQL> startup ORACLE instance started.

Total System Global Area 3623876800 bytes Fixed Size 8902848 bytes Variable Size 822083584 bytes Database Buffers 2785017856 bytes Redo Buffers 7872512 bytes Database mounted. Database opened. SQL> SQL> SET SERVEROUTPUT ON DECLARE 1 failures PLS INTEGER; BEGIN DBMS DST.upgrade database(1 failures); DBMS OUTPUT.put line('DBMS DST.upgrade database : 1 failures=' || 1 failures); DBMS DST.end upgrade(1 failures); DBMS OUTPUT.put line('DBMS DST.end upgrade : 1 failures=' || 1 failures); END: /SQL> 2 3 4 5 6 7 8 9 Table list: "MDSYS"."SDO DIAG MESSAGES TABLE" Number of failures: 0 Table list: "APEX 200100"."WWV QS RANDOM NAMES" Number of failures: 0 Table list: "APEX 200100"."WWV FLOW WORKSHEET NOTIFY" Number of failures: 0 Table list: "APEX 200100"."WWV FLOW FEEDBACK" Number of failures: 0 Table list: "APEX 200100"."WWV FLOW FEEDBACK FOLLOWUP" Number of failures: 0 Table list: "APEX 200100"."WWV FLOW ACTIVITY LOG1\$" Number of failures: 0 Table list: "APEX 200100"."WWV FLOW ACTIVITY LOG2\$" Number of failures: 0 Table list: "APEX 200100"."WWV FLOW DEBUG MESSAGES" Number of failures: 0 Table list: "APEX 200100"."WWV FLOW DEBUG MESSAGES2" Number of failures: 0 Table list: "APEX 200100". "WWV FLOW ISSUE NOTIFICATIONS" Number of failures: 0 Table list: "GSMADMIN INTERNAL"."AQ\$ CHANGE LOG QUEUE TABLE S" Number of failures: 0 Table list: "GSMADMIN_INTERNAL"."AQ\$ CHANGE_LOG_QUEUE_TABLE_L" Number of failures: 0 DBMS DST.upgrade database : 1 failures=0 An upgrade window has been successfully ended. DBMS DST.end upgrade : 1_failures=0

PL/SQL procedure successfully completed.



POST DBUPGRADE : RUN CATUPPST.SQL

SQL> @?/rdbms/admin/catuppst.sql

TIMESTAMP

COMP	TIMESTAMP	DBRESTART		2022-06-06	00:24:34
DBUA	TIMESTAMP	DBRESTART	FINISHED	2022-06-06	00:24:34
DBUA	TIMESTAMP	DBRESTART	NONE	2022-06-06	00:24:34

TIMESTAMP

DBUA	TIMESTAMP	CATUPPST	STARTED	2022-06-06	00:24:34

TIMESTAMP

COMP_TIMESTAMP	POSTUP_BGN		2022-06-06	00:24:34
DBUA_TIMESTAMP	POSTUP_BGN	FINISHED	2022-06-06	00:24:34
DBUA TIMESTAMP	POSTUP BGN	NONE	2022-06-06	00:24:34

TIMESTAMP

COMP_TIMESTAMP CATREQ_BGN			2022-06-06	
DBUA_TIMESTAMP CATREQ_BGN		FINISHED	2022-06-06	00:24:34
DBUA_TIMESTAMP CATREQ_BGN		NONE	2022-06-06	00:24:34
catrequtlmg: b_StatEvt	=	TRUE		
catrequtlmg: b_SelProps	=	FALSE		
catrequtlmg: b_UpgradeMode	=	FALSE		
catrequtlmg: b_InUtlMig	=	FALSE		
_				

TIMESTAMP

COMP_TIMESTAMP	CATREQ_END		2022-06-06	00:24:35	
DBUA_TIMESTAMP	CATREQ_END	FINISHED	2022-06-06	00:24:35	
DBUA TIMESTAMP	CATREQ END	NONE	2022-06-06	00:24:35	

catuppst: Dropping library DBMS DDL INTERNAL LIB catuppst: Dropping view CURRENT EDITION OBJ MIG catuppst: Dropping view ACTUAL EDITION OBJ MIG catuppst: Dropping view DBA PART KEY COLUMNS V\$ MIG catuppst: Dropping view DBA SUBPART KEY COLUMNS V\$ MIG catuppst: Dropping table OBJ\$MIG catuppst: Dropping table USER\$MIG catuppst: Dropping table COL\$MIG catuppst: Dropping table CLU\$MIG catuppst: Dropping table CON\$MIG catuppst: Dropping table BOOTSTRAP\$MIG catuppst: Dropping table TAB\$MIG catuppst: Dropping table TS\$MIG catuppst: Dropping table IND\$MIG catuppst: Dropping table ICOL\$MIG catuppst: Dropping table LOB\$MIG catuppst: Dropping table COLTYPE\$MIG catuppst: Dropping table SUBCOLTYPE\$MIG catuppst: Dropping table NTAB\$MIG catuppst: Dropping table REFCON\$MIG catuppst: Dropping table OPQTYPE\$MIG catuppst: Dropping table ICOLDEP\$MIG catuppst: Dropping table VIEWTRCOL\$MIG catuppst: Dropping table ATTRCOL\$MIG catuppst: Dropping table TYPE MISC\$MIG catuppst: Dropping table LIBRARY\$MIG catuppst: Dropping table ASSEMBLY\$MIG catuppst: Dropping table TSQ\$MIG catuppst: Dropping table FET\$MIG

TIMESTAMP

COMP_TIMESTAMP	POSTUP_END	2022-06-06 00:24:35
DBUA_TIMESTAMP	POSTUP_END	FINISHED 2022-06-06 00:24:35
DBUA TIMESTAMP	POSTUP END	NONE 2022-06-06 00:24:35

TIMESTAMP

COMP	TIMESTAMP	CATUPPST		2022-06-06	00:24:35	
DBUA	TIMESTAMP	CATUPPST	FINISHED	2022-06-06	00:24:35	
DBUA	TIMESTAMP	CATUPPST	NONE	2022-06-06	00:24:35	

SQL>





POST DBUPGRADE RUN : UTLRP.SQL ETA 971175

SQL> SQL> @?/rdbms/admin/utlrp.sql

TIMESTAMP

COMP_T	IMESTAMP UTLRP_BGN 2022-06-06 00:27:15
DOC>	The following PL/SQL block invokes UTL_RECOMP to recompile invalid
DOC>	objects in the database. Recompilation time is proportional to the
DOC>	number of invalid objects in the database, so this command may take
DOC>	a long time to execute on a database with a large number of invalid
DOC>	objects.
DOC>	
DOC>	Use the following queries to track recompilation progress:
DOC>	
DOC>	 Query returning the number of invalid objects remaining. This
DOC>	number should decrease with time.
DOC>	SELECT COUNT(*) FROM obj\$ WHERE status IN (4, 5, 6);
DOC>	
	1. Anera supartial loss created sa orn vreour
DOC>	SELECT job_name FROM dba_scheduler_jobs
DOC>	WHERE job_name like 'UTL_RECOMP_SLAVE_%';
DOC>	
DOC>	Query showing UTL_RECOMP jobs that are running
DOC>	SELECT job_name FROM dba_scheduler_running_jobs
DOC>	WHERE job_name like 'UTL_RECOMP_SLAVE_%';
DOC>#	

TIMESTAMP

COMP_TIMESTAMP_UTLRP_END 2022-06-06 00:35:48 DOC> The following query reports the number of invalid objects. DOC> DOC> If the number is higher than expected, please examine the error DOC> messages reported with each object (using SHOW ERRORS) to see if they DOC> point to system misconfiguration or resource constraints that must be DOC> fixed before attempting to recompile these objects. DOC>#

OBJECTS WITH ERRORS

DOC> The following query reports the number of exceptions caught during DOC> recompilation. If this number is non-zero, please query the error DOC> messages in the table UTL_RECOMP_ERRORS to see if any of these errors

- DOC> are due to misconfiguration or resource constraints that must be
- DOC> fixed before objects can compile successfully.

DOC> Note: Typical compilation errors (due to coding errors) are not DOC> logged into this table: they go into DBA_ERRORS instead. DOC>#

ERRORS DURING RECOMPILATION

_____0

SQL> SQL> SOL>

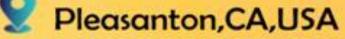


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SQL>	@/u01/11g19cUpgra	deSpool/p	reupgrade/po	stupgrade_fixups.sql
No err	ors.			
No erro	ors.			
No erro	ors.			
No erro	ors.			
Execut	ing Oracle POST-Up	grade Fix	up Script	
Auto-G	enerated by:	Oracle P	reupgrade So	ript
	-	Version:	19.0.0.0.0	Build: 1
Genera	ted on:	2022-06-	05 18:14:55	
For So	urce Database:	SHOATBIL		
	Database Version:			
	grade to Version:			
FOI OD	grade to version.	19.0.0.0		
Preup			Preupgrade	
Action			Issue Is	
Number	Preupgrade Check	Name	Remedied	Further DBA Action
11.	old time zones e	xist	YES	None.
12.	dir symlinks		YES	None.
	post dictionary		YES	None.
14.	post fixed objec	ts	NO	Informational only.
				Further action is optional
15.	upg by std upgrd		YES	None.
				what they can. However,
				by the preupgrade that
nave no	ot been remedied a	nd are st	111 present	in the database.

there are still issues originally identified by the preupgrade that have not been remedied and are still present in the database. Depending on the severity of the specific issue, and the nature of the issue itself, that could mean that your database upgrade is not fully complete. To resolve the outstanding issues, start by reviewing the postupgrade_fixups.sql and searching it for the name of the failed CHECK NAME or Preupgrade Action Number listed above. There you will find the original corresponding diagnostic message from the preupgrade which explains in more detail what still needs to be done. SQL>





VERIFY DBA_REGISTRY

SQL> Select comp_name,comp_id,version,state	us from dba_registry;		
COMP_NAME	COMP_ID	VERSION	
Oracle Database Catalog Views	CATALOG	19.0.0.0	
Oracle Database Packages and Types	CATPROC	19.0.0.0	
JServer JAVA Virtual Machine	JAVAVM	19.0.0.0	
Oracle XDK	XML	19.0.0.0	
Oracle Database Java Packages	CATJAVA	19.0.0.0	
OLAP Analytic Workspace	APS	19.0.0.0	
Oracle Real Application Clusters	RAC	19.0.0.0	
Oracle Workspace Manager	OWM	19.0.0.0	
Oracle Text	CONTEXT	19.0.0.0	
Oracle XML Database	XDB	19.0.0.0	
Oracle Multimedia	ORDIM	19.0.0.0	
Spatial	SDO	19.0.0.0	
Oracle OLAP API	XOQ	19.0.0.0	
Oracle Application Express	APEX	20.1.0.00.13	

SQL>



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STATUS

VALID VALID VALID VALID VALID VALID

VALID VALID VALID VALID VALID VALID VALID

OPTION OFF



SET COMPATIBALE PARAMETER TO 19.0.0

SQL> show parameter compatible;

NAME	TYPE	VALUE
compatible noncdb_compatible SQL>	string boolean	11.2.0.4.0 FALSE
<pre>SQL> ALTER SYSTEM SET COMPATIBLE = SQL> SQL> shut immediate Database closed. Database dismounted. ORACLE instance shut down. SQL> SQL> startup ORACLE instance started.</pre>	'19.0.0' SCOF	PE=SPFILE;
Total System Global Area 3623876800 Fixed Size 8902848 Variable Size 822083584 Database Buffers 2785017856 Redo Buffers 7872512 Database mounted. Database opened. SQL> SQL> show parameter compatible;	bytes bytes bytes	
NAME	ТҮРЕ	VALUE
compatible noncdb_compatible SQL>	string boolean	19.0.0 FALSE





THANKS !!

