

TestMigr1 < PSSGroup < TWiki

1. TARGET - activate ftp over xdb on port 3100 and open port with iptables:

```
$ sqlsys_DB
SQL> exec dbms_xdb.setftpport(3100);
SQL> exit
$ ...
```

Note

to change ftp params such as session timeout see:

http://download-uk.oracle.com/docs/cd/B19306_01/appdev.102/b14259/xdb22pro.htm#sthref2260

1. TARGET - changed character set to WE8ISO8859P9 (must be the same as source)

...

2. SOURCE - decide which period to migrate and identify schema names, tablespace names and datafile names related to this period:

```
SQL> SET PAGESIZE 100;
SQL> SET LINESIZE 120;
SQL> SET VERIFY OFF;
SQL> DEFINE period=02P2F;
```

```
SQL> SELECT USERNAME FROM DBA_USERS WHERE USERNAME LIKE '%&period%' ORDER BY 1;
```

```
USERNAME
```

```
-----
```

```
COMPANL_02P2F
```

```
COMPASS_02P2F
```

```
COMPDST_02P2F
```

```
SQL> SELECT TABLESPACE_NAME FROM DBA_TABLESPACES WHERE TABLESPACE_NAME LIKE '%&period%';
```

```
TABLESPACE_NAME
```

```
-----
```

```
02P2F_ANL_DATA01
```

```
02P2F_ANL_INDX01
```

```
02P2F_DATA01
```

```
02P2F_DATA02
```

```
02P2F_DST_DATA01
```

```
02P2F_DST_INDX01
```

```
02P2F_INDX01
```

```
SQL> SELECT FILE_NAME FROM DBA_DATA_FILES WHERE TABLESPACE_NAME LIKE '%&period%' ORDER BY 1;
```

```
FILE_NAME
```

```
-----
```

```
/ORA/dbs03/oradata/compdb1/compdb1_02P2F_ANL_DATA01_02.dbf
```

```
/ORA/dbs03/oradata/compdb1/compdb1_02P2F_ANL_DATA01_03.dbf
```

```
/ORA/dbs03/oradata/compdb1/compdb1_02P2F_ANL_DATA01_04.dbf
```

```
/ORA/dbs03/oradata/compdb1/compdb1_02P2F_ANL_DATA01_05.dbf
```

```
/ORA/dbs03/oradata/compdb1/compdb1_02P2F_ANL_INDX01_02.dbf
```

```
/ORA/dbs03/oradata/compdb1/compdb1_02P2F_ANL_INDX01_03.dbf
```

```
/ORA/dbs03/oradata/compdb1/compdb1_02P2F_ANL_INDX01_04.dbf
```

```
/ORA/dbs03/oradata/compdb1/compdb1_02P2F_ANL_INDX01_05.dbf
```

```
/ORA/dbs03/oradata/compdb1/compdb1_02P2F_DATA01_02.dbf
```

```
/ORA/dbs03/oradata/compdb1/compdb1_02P2F_DATA01_03.dbf
```

```
/ORA/dbs03/oradata/compdb1/compdb1_02P2F_DATA01_04.dbf
```

```
/ORA/dbs03/oradata/compdb1/compdb1_02P2F_DATA01_05.dbf
```

```
/ORA/dbs03/oradata/compdb1/compdb1_02P2F_DATA02_01.dbf
```

```
/ORA/dbs03/oradata/compdb1/compdb1_02P2F_DST_DATA01_02.dbf
```

```
/ORA/dbs03/oradata/compdb1/compdb1_02P2F_DST_DATA01_03.dbf
```

```
/ORA/dbs03/oradata/compdb1/compdb1_02P2F_DST_DATA01_04.dbf
```

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```
/ORA/dbs03/oradata/compdb1/compdb1_02P2F_DST_DATA01_05.dbf
/ORA/dbs03/oradata/compdb1/compdb1_02P2F_DST_INDX01_02.dbf
/ORA/dbs03/oradata/compdb1/compdb1_02P2F_DST_INDX01_03.dbf
/ORA/dbs03/oradata/compdb1/compdb1_02P2F_DST_INDX01_04.dbf
/ORA/dbs03/oradata/compdb1/compdb1_02P2F_DST_INDX01_05.dbf
/ORA/dbs03/oradata/compdb1/compdb1_02P2F_INDX01_02.dbf
/ORA/dbs03/oradata/compdb1/compdb1_02P2F_INDX01_03.dbf
/ORA/dbs03/oradata/compdb1/compdb1_02P2F_INDX01_04.dbf
/ORA/dbs03/oradata/compdb1/compdb1_02P2F_INDX01_05.dbf
```

25 rows selected.

3. SOURCE - make selected tablespaces READ ONLY:

```
SQL> @make_ts_read_only_gen.sql
SQL> @make_ts_read_only.sql
```

4. SOURCE - check if the selected period is self-contained:

```
SQL> EXECUTE SYS.DBMS_TTS.TRANSPORT_SET_CHECK('02P2F_DST_DATA01, 02P2F_DST_INDX01, AC
SQL> SELECT * FROM TRANSPORT_SET_VIOLATIONS;

*** Write a PL/SQL procedure that generates a script containing commands above.
```

5. SOURCE - identify settings of schemas related to transported period:

```
SQL> SELECT USERNAME, PASSWORD, DEFAULT_TABLESPACE, TEMPORARY_TABLESPACE, PROFILE, AC

USERNAME                                PASSWORD                                DEFAULT_TABLESPACE
-----                                -
TEMPORARY_TABLESPACE                    PROFILE                                ACCOUNT_STATUS
-----                                -
COMPASS_02P2F                            D26C596A4C2783CE                       02P2F_DATA01
TEMP                                      DEFAULT                                  OPEN

COMPDST_02P2F                            EBCB20A2CA8F4E76                       02P2F_DST_DATA01
TEMP                                      DEFAULT                                  OPEN

COMPANL_02P2F                            8D03AA91902EA10E                       02P2F_ANL_DATA01
TEMP                                      DEFAULT                                  OPEN
```

6. SOURCE - identify users' roles:

```
SQL> SELECT * FROM DBA_ROLE_PRIVS WHERE GRANTEE LIKE '%&period%' ORDER BY GRANTEE;

GRANTEE                                GRANTED_ROLE                            ADM DEF
-----                                -
COMPANL_02P2F                            COMPASS_ANALYSIS                        NO YES
COMPASS_02P2F                            COMPASS_MIGRATION                      NO YES
COMPDST_02P2F                            COMPASS_DST_PROD                       NO YES
```

7. SOURCE - generate script that will create appropriate roles and schemas in the target database:

```
SQL> @roles_schemas_ddl_gen.sql

SQL> !scp ./roles_schemas_ddl.sql oracle@itrac03:work/jwojcies
```

8. TARGET - execute script generated in the previous step:

```
$ cd work/jwojcies
$ sqlsys_DB
SQL> @roles_schemas_ddl.sql
SQL> exit
```

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```
$ cd work/jwojcies
$ sqlsys_DB
SQL> @roles_schemas_ddl.sql
SQL> exit
```

9. TARGET - create a directory to be used to store COMPASS files.

```
$sqlsys_ASM
SQL> ALTER DISKGROUP TEST1_DATADG1 ADD DIRECTORY '+TEST1_DATADG1/test1/compass';
SQL> exit
```

10. TARGET - create a user to be used for COMPASS files transfer:

```
$ sqlsys_DB
SQL> CREATE USER asm_ftp IDENTIFIED BY .... DEFAULT TABLESPACE users TEMPORARY TABLESPACE
SQL> GRANT connect, resource, dba TO asm_ftp;
SQL> exit
```

11. SOURCE - perform export of tablespaces belonging to the chosen period:

```
$ export NLS_LANG=AMERICAN_AMERICA.WE8ISO8859P9
$ exp '''/ as sysdba''' parfile=parfile.txt
```

Where parfile.txt contains:

```
file=exp_tts.dmp
statistics=none
transport_tablespace=y          tablespaces=02P2F_DST_DATA01,02P2F_DST_INDX01,02P2F_INDX01
```

```
$ scp exp_tts.dmp oracle@itrac03:work/jwojcies
```

12. SOURCE - ftp datafiles belonging to exported tablespaces to the target ASM diskgroup:

```
$ cd /ORA/dbs03/oradata/compdb1
$ ftp -i
ftp> open itrac03 3100
Name (itrac03:oracle): asm_ftp
Password: XXXXXXXX
ftp> bin
ftp> cd /sys/asm/test1_datadg1/test1/compass
ftp> bin
ftp> mput *02P2F*.dbf
ftp> ls
ftp> bye
```

13. TARGET - import copied tablespaces:

```
$ export NLS_LANG=AMERICAN_AMERICA.WE8ISO8859P9
$ imp '''/ as sysdba''' parfile=parfile.txt
```

where parfile.txt contains:

```
file=exp_tts.dmp
transport_tablespace=y
datafiles=+TEST1_DATADG1/TEST1/compass/compdb1_02P2F_ANL_DATA01_02.dbf,+TEST1_DATADG1
/compass/compdb1_02P2F_ANL_DATA01_04.dbf,+TEST1_DATADG1/TEST1/compass/compdb1_02P2F_ANL_DA
X01_02.dbf,+TEST1_DATADG1/TEST1/compass/compdb1_02P2F_ANL_INDX01_03.dbf,+TEST1_DATADG1/TEST
1/compass/compdb1_02P2F_ANL_INDX01_04.dbf,+TEST1_DATADG1/TEST1/compass/compdb1_02P2F_DATA0
dbf,+TEST1_DATADG1/TEST1/compass/compdb1_02P2F_DATA01_04.dbf,+TEST1_DATADG1/TEST1/compass/
b1_02P2F_DATA02_01.dbf,+TEST1_DATADG1/TEST1/compass/compdb1_02P2F_DST_DATA01_02.dbf,+TEST1
DATADG1/TEST1/compass/compdb1_02P2F_DST_DATA01_04.dbf,+TEST1_DATADG1/TEST1/compass/compdb1
02P2F_DST_INDX01_02.dbf,+TEST1_DATADG1/TEST1/compass/compdb1_02P2F_DST_INDX01_03.dbf,+TEST
_DATADG1/TEST1/compass/compdb1_02P2F_DST_INDX01_04.dbf,+TEST1_DATADG1/TEST1/compass/compdb
2F_INDX01_03.dbf,+TEST1_DATADG1/TEST1/compass/compdb1_02P2F_INDX01_04.dbf,+TEST1_DATADG1/T
```

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```
*** The datafiles parameter can be generated in the source database
    with use of the following SQL statement:
SELECT file_name || ',' FROM dba_data_files WHERE tablespace_name LIKE '%&period%';
```

14. SOURCE - create a directory to store in the file with exported metadata and execute the procedure 'EXPORT_METADATA' from the 'COMPASS_METADATA_MIGRATION' package to export metadata related to the migrated period:

```
SQL> CREATE OR REPLACE DIRECTORY temp_dir AS '/tmp';
SQL> exec COMPASS_METADATA_MIGRATION.EXPORT_METADATA('%&period%');
```

Edit the generated SQL script ('/tmp/compass_metadata_ddl.sql') prefixing trigger's condition clauses with appropriate schema name:

```
e.g. In the "COMPDST_02P2F"."ALL_FILES_TRG" trigger change:
instead of update on all_files

to

instead of update on COMPDST_02P2F.all_files
```

Remove also the following grant:

```
GRANT SELECT ON "SYS"."USER_SEGMENTS" TO PUBLIC;
```

Scp modified script to the target system:

```
$ scp /tmp/compass_metadata_ddl.sql oracle@itrac03:work/jwojcies
```

15. TARGET - execute twice the script generated in the previous step.

```
$ sqlsys_DB
SQL> @compass_metadata_ddl.sql
SQL> @compass_metadata_ddl.sql
```

1. BOTH - verify whether all objects and all privileges have been migrated correctly:

```
SQL> DEFINE period=02P2F;
SQL> COL OBJECT_NAME FOR a30;

SQL> select owner, object_name, object_type, status from dba_objects where owner LIKE

SQL> select r.granted_role, p.privilege from dba_role_privs r, dba_sys_privs p where

SQL> select CONSTRAINT_NAME, CONSTRAINT_TYPE, TABLE_NAME, STATUS from dba_constraints

SQL> select grantee, privilege, table_name, grantor from dba_tab_privs where grantor
```

Eliminate differenced if needed.

2. TARGET - make tablespaces READ WRITE:

```
SQL> @make_ts_read_write_gen.sql
SQL> @make_ts_read_write.sql
```

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