

How to Setup Your Environment for 12.2 Multitenant Hands-on Labs

1. Create two CDBs whose SIDs are 'cdb1' and 'cdb2' via DBCA.
 - a. ORACLE_HOME needs to point to /u01/app/oracle/product/12.2.0/dbhome_1.
 - b. Preferably, do not install any options in the CDBs (i.e. No APEX, Oracle Text, DB Vault, Spatial and Graph etc)
 - c. Use AL32UTF8 as character set for both CDBs.
 - d. Use 'oracle12' as both SYS and SYSTEM password for both CDBs.
 - e. Use OMF and make sure 'db_create_file_dest' is set for each CDB.
2. Copy the folder "HOL" under /u01 (i.e. /u01/HOL).
3. Connect to CDB1 as SYS and run /u01/HOL/proxy_pdb/wintersports_link.sql
4. Connect to CDB2 as SYS and run /u01/HOL/proxy_pdb/proxypdb_db_link.sql
5. For the both CDBs (CDB1 and CDB2), do the following:

- a. Create a common user**

```
drop user c##admin cascade;
create user c##admin identified by oracle;
grant create session, resource to c##admin container=all;
grant create pluggable database to c##admin container=all;
grant sysoper to c##admin container=all;
alter user c##admin set container_data=ALL container=current;
grant select on cdb_pdb$seeds to c##admin;
```

- b. Create a public database link connecting to the common user**

```
drop public database link cdb1_link; (For CDB2)
```

```
create public database link cdb1_link connect to c##admin identified by oracle
using '(DESCRIPTION = (ADDRESS = (PROTOCOL = TCP)(HOST =
localhost)(PORT = 1521)) (CONNECT_DATA = (SERVER = DEDICATED)
(SERVICE_NAME = cdb1)))'; (For CDB2)
```

```
drop public database link cdb2_link; (For CDB1)
```

```
create public database link cdb2_link connect to c##admin identified by oracle
using '(DESCRIPTION = (ADDRESS = (PROTOCOL = TCP)(HOST =
localhost)(PORT = 1521)) (CONNECT_DATA = (SERVER = DEDICATED)
```

(SERVICE_NAME = cdb2)))'; **(For CDB1)**

c. Make sure local undo is enabled.

```
startup mount;  
alter database open upgrade;  
alter database local undo on;  
shutdown immediate;  
startup;
```

d. Make sure archivelog mode is enabled.

```
startup mount;  
alter database archivelog;  
alter database open;
```

e. For relocate feature, our source and target CDBs share the same listener for our lab purposes:

- i. Make sure there is a listener defined and setup (i.e. you can name it 'LISTENER').
- ii. The 'local_listener' parameter for both CDB1 and CDB2 should point to this listener.

f. For relocate feature, we will create and relocate a PDB named 'OE'.

- i. Create an entry in tnsnames.ora for 'OE' (copy either CDB1 or CDB2's entry and replace the cdb names with 'OE').

g. Make sure 'db_recovery_file_dest' and 'db_recovery_file_dest_size' are both set.

6. Your lab workbook is located under /u01/HOL/readme in HTML format. Open the index.html in your browser and follow the steps to go through the labs.