New installation of Oracle Express Database 18, APEX 19.2 and ORDS 19.2.

SYS > ALTER PLUGGABLE DATABASE ALL OPEN;

SYS > ALTER PLUGGABLE DATABASE ALL SAVE STATE;

# PLUGGABLE DATABASEs are opened after startup machines

<https://localhost:5500/em>

SQL> EXEC DBMS\_XDB.SETLISTENERLOCALACCESS(FALSE);

SQL> exec dbms\_xdb\_config.SetGlobalPortEnabled(TRUE);

#Can access both CDB and PDB

A pluggable database (PDB) is a portable collection of schemas, schema objects, and nonschema objects that appears to an Oracle Net client as a non-CDB.

PDBs can be plugged into to CDBs. A CDB can contain multiple PDBs. Each PDB appears on the network as a separate database.

#In order to connect to pluggable database via service name, please configure in tnsnames.ora

L034XEPDB1 =

(DESCRIPTION =

(ADDRESS = (PROTOCOL = TCP)(HOST = L034)(PORT = 1521))

(CONNECT\_DATA =

(SERVER = DEDICATED)

(SERVICE\_NAME = XEPDB1)

)

)

SQL> show con\_name

CON\_NAME

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XEPDB1

SQL> connect sys@L034xe as sysdba

SQL> show con\_name

CON\_NAME

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CDB$ROOT

Oracle recommends removing Oracle Application Express from the root

container database for the majority of use cases, except for hosting

companies or installations where all pluggable databases (PDBs) utilize

Oracle Application Express and they all need to run the exact same release

and patch set of Oracle Application Express.

SYS>ALTER SESSION SET CONTAINER = PDB1;

#Chọn puggable database để cài. Các câu lệnh sau lệnh này chỉ có tác dụng với PDB1.

SYS> @apexins.sql SYSAUX SYSAUX TEMP /i/

# Actions in Phase 1:

#

ok 1 - BEGIN | 0.00

ok 2 - Creating FLOWS\_FILES | 0.00

ok 3 - Creating APEX\_PUBLIC\_USER | 0.00

ok 4 - Creating APEX\_GRANTS\_FOR\_NEW\_USERS\_ROLE | 0.02

ok 5 - Creating SYS Objects | 0.00

ok 6 - Creating APEX Tables | 0.17

ok 7 - Installing Package Specs (Runtime) | 0.47

ok 8 - Installing Package Bodies (Runtime) | 0.38

ok 9 - Dev Grants | 0.00

ok 10 - Creating Dev-Only Tables and Triggers | 0.02

ok 11 - Installing Package Specs (Dev) | 0.22

ok 12 - Installing Views (Dev) | 0.03

ok 13 - Installing Package Bodies (Dev) | 0.08

ok 14 - Recompiling APEX\_190200 | 0.67

ok 15 - Creating APEX$ objects in APEX\_190200 | 0.02

ok 16 - Creating Spatial Support | 0.00

ok 17 - Creating Instance Parameter Defaults | 0.00

ok 18 - Installing Page Designer Metadata | 0.05

ok 19 - Inherit Privileges | 0.00

ok 20 - Creating APEX\_INSTANCE\_ADMIN\_USER | 0.00

ok 1 - 20 actions passed, 0 actions failed | 2.12

APPLICATION 4411 - Oracle APEX System Messages and Native Types

APPLICATION 4155 - Scheme Authentication Login

APPLICATION 8940 - Universal Theme Sample Application

APPLICATION 8960 - Mobile Master Theme

APPLICATION 4000 - Oracle APEX AppBuilder

APPLICATION 4020 - Oracle APEX - Create App Wizard

APPLICATION 4350 - Oracle APEX Workspace Administration

APPLICATION 4050 - Oracle APEX Internal Administration

APPLICATION 4550 - Oracle APEX Login

APPLICATION 4600 - Oracle APEX Issues

APPLICATION 4650 - Oracle APEX Feedback

APPLICATION 4700 - Oracle APEX New Service Signup

APPLICATION 4750 - Oracle APEX Productivity and Sample Applications

APPLICATION 4500 - Oracle APEX SQL Workshop

APPLICATION 4300 - Oracle APEX Data Workshop

APPLICATION 4400 - Oracle APEX Application Migration

APPLICATION 4900 - Oracle APEX Websheets

APPLICATION 4800 - Oracle APEX Team Development

APPLICATION 4850 - Oracle APEX RESTful Services

# Actions in Phase 2:

#

ok 1 - BEGIN | 0.00

ok 2 - Upgrade Metadata (1) | 0.02

ok 3 - Upgrade Metadata (2) | 0.00

ok 4 - Recompiling APEX\_190200 schema | 0.02

ok 5 - Configuring Restricted Schemas | 0.00

ok 6 - Upgrading ACL | 0.00

ok 7 - Installing 4411 | 0.17

ok 8 - Installing 4155 | 0.03

ok 9 - Installing Internal Themes | 0.17

ok 10 - Installing 4000 | 1.27

ok 11 - Installing 4020 | 0.10

ok 12 - Installing 4350 | 0.15

ok 13 - Installing 4050 | 0.18

ok 14 - Installing 4550 | 0.03

ok 15 - Installing 4600 | 0.08

ok 16 - Installing 4650 | 0.07

ok 17 - Installing 4700 | 0.03

ok 18 - Installing 4750 | 0.07

ok 19 - Installing 4500 | 0.32

ok 20 - Installing 4300 | 0.05

ok 21 - Installing 4400 | 0.22

ok 22 - Installing 4900 | 0.17

ok 23 - Installing 4800 | 0.17

ok 24 - Installing 4850 | 0.10

ok 25 - Resetting Internal Authentication | 0.00

ok 26 - Installing Dictionary View Metadata | 0.00

ok 27 - Installing Advisor Metadata | 0.02

ok 28 - Installing Verification Images | 0.00

ok 29 - Installing Packaged Apps Metadata | 0.02

ok 30 - Installing Packaged Apps | 0.25

ok 31 - Updating App Owner/Version | 0.00

ok 32 - Copying Instance settings | 0.00

ok 2 - 32 actions passed, 0 actions failed | 3.68

PL/SQL procedure successfully completed.

# Actions in Phase 3:

#

ok 1 - BEGIN | 0.00

ok 2 - Computing Pub Syn Dependents | 0.02

ok 3 - Upgrade Hot Metadata and Switch Schemas | 0.00

ok 4 - Removing Jobs | 0.00

ok 5 - Creating Jobs | 0.00

ok 6 - Creating Dev Jobs | 0.00

ok 7 - Creating Public Synonyms | 0.03

ok 8 - Granting Public Synonyms | 0.05

ok 9 - Granting to FLOWS\_FILES | 0.00

ok 10 - Creating FLOWS\_FILES grants and synonyms | 0.00

not ok 11 - Installing FLOWS\_FILES Objects | 0.00

# Message: ORA-04045: errors during recompilation/revalidation of FLOWS\_FILE

S.WWV\_BIU\_FLOW\_FILE\_OBJECTS

ok 12 - Installing APEX$SESSION Context | 0.00

ok 13 - Recompiling APEX\_190200 | 0.03

ok 14 - Installing APEX REST Config | 0.00

ok 15 - Set Loaded/Upgraded in Registry | 0.00

ok 16 - Setting Patch Status: APPLIED | 0.00

ok 17 - Removing Unused SYS Objects | 0.00

ok 18 - Validating Installation | 0.03

not ok 3 - 17 actions passed, 1 actions failed | 0.17

**->I did not follow the guide to run @apxremov.sql and tried to delete users manually.**

**Oracle Application Express is installed in the APEX\_190200 schema.**

The structure of the link to the Application Express administration services is as follows:

http://host:port/apex/apex\_admin (Oracle REST Data Services)

The structure of the link to the Application Express development interface is as follows:

http://host:port/apex (Oracle REST Data Services)

SYS> @apxchpwd.sql

#Change Apex instance admin password

SYS> ALTER USER APEX\_PUBLIC\_USER ACCOUNT UNLOCK;

SYS> ALTER USER APEX\_PUBLIC\_USER IDENTIFIED BY \*\*\*\*\*

SYS> @apex\_rest\_config.sql

#Configure accounts and static images

C:\Setup\ords-19.2.0.199.1647>java -jar ords.war install advanced

Enter the database service name:XEPDB1

#To install APEX to plugable database. (ORDS and Database in the same machine)

On Microsoft Windows systems, if you specify an Application Express static

images location for standalone.static.images, use the backslash character

(/) before the colon, and use a forwardslash for the folder separator. For example,

standalone.static.images=d\:/test/apex426/apex/images/

C:\Setup\ords-19.2.0.199.1647\ords\standalone\doc\_root

#To remove doc\_root error when starting the application ORDS.

https://l034:8443/apex/apex\_admin



















