8i | 9i | 10g | 11g | 12c | 13c | 18c | 19c | 21c | Misc | PL/SQL | SQL | RAC | WebLogic | Linux

Home » Articles » Misc » Here

# **Oracle Application Express (APEX) Installation**

The <u>installation</u> section should be followed for new installations and upgrades. Since the release of APEX 18.x, each release requires a full installation, so there is no concept of patching anymore. This simplifies the approach greatly.

In previous versions an upgrade was required when a release affected the first two numbers of the version (4.2 to 5.0 or 5.1 to 18.1), but if the first two numbers of the version were not affected (5.1.3 to 5.1.4) you had to download and apply a patch, rather than do the full installation. This is no longer the case.



#### Intel 10th Ge

صل على انتى فايروس + فلاش ميموري باناً عند شراء أي لاب توب الجيل العاشر من









If you are using the multitenant architecture in Oracle 12cR1, you should read this article before you continue.

- Setup
- Installation
- Embedded PL/SQL Gateway (EPG) Configuration
- Oracle REST Data Services (ORDS) Configuration
- Oracle HTTP Server (OHS) Configuration
- Network ACLs

#### Related articles.

- Oracle Application Express (APEX) Patches
- Multitenant: Uninstall APEX from the CDB in Oracle Database 12c Release 1 (12.1)
- Oracle REST Data Services (ORDS): Installation on Tomcat
- APEX Articles

### Setup

Download the APEX software.

<a href="https://www.oracle.com/tools/downloads/apex-downloads.html">https://www.oracle.com/tools/downloads/apex-downloads.html</a>

Unzip the software either on your client PC if you intend to install it from there using the SQL\*Plus client on your PC, or on the database server if you intend to install it from there. The latter will be more efficient as you will reduce the network traffic between the SQL\*Plus client and the database server.

Create a new tablespace to act as the default tablespace for APEX.

```
-- For Oracle Managed Files (OMF).
CREATE TABLESPACE apex DATAFILE SIZE 100M AUTOEXTEND ON NEXT 1M;
-- For non-OMF.
CREATE TABLESPACE apex DATAFILE '/path/to/datafiles/apex01.dbf' SIZE 100M AUTOEXTEND ON NEXT 1M;
```

### Installation

Change directory to the directory holding the unzipped APEX software.

```
$ cd /home/oracle/apex
```

Connect to SQL\*Plus as the SYS user and run the "apexins.sql" script, specifying the relevant tablespace names and image URL.

```
SQL> CONN sys@pdb1 AS SYSDBA
SQL> -- @apexins.sql tablespace_apex tablespace_files tablespace_temp images
SQL>
SQL> @apexins.sql APEX APEX TEMP /i/
```

If you are upgrading, you've finished the DB upgrade at this point. You only need to run subsequent steps for new installations. You will need to redeploy the image files to your app server. If you are using ORDS, it's a good idea to run an ORDS validate to make sure the APEX hasn't affected your ORDS installation.

Once complete, change the admin password by running the "apxchpwd.sql" scripts as the SYS user.

```
SQL> CONN sys@pdb1 AS SYSDBA
SQL> @apxchpwd.sql
```

If you want to add the user silently, you could run the following code, specifying the required password and email.

Create the APEX\_LISTENER and APEX\_REST\_PUBLIC\_USER users by running the "apex\_rest\_config.sql" script.

```
SQL> CONN sys@pdb1 AS SYSDBA
SQL> @apex_rest_config.sql
```

If you want to add these users silently, you can specify the passwords as parameters to the script.

```
SQL> CONN sys@pdb1 AS SYSDBA
SQL> @apex_rest_config.sql ApexPassword1 ApexPassword2
```

Now you need to decide which gateway to use to access APEX. The Oracle recommendation is ORDS.

### **Oracle REST Data Services (ORDS) Configuration**

If you want to use Oracle REST Data Services (ORDS) to front APEX, you can follow the instructions here.

• Oracle REST Data Services (ORDS): Installation on Tomcat

## Embedded PL/SQL Gateway (EPG) Configuration

If you want to use the Embedded PL/SQL Gateway (EPG) to front APEX, you can follow the instructions here. This is used for both the first installation and upgrades.

Run the "apex\_epg\_config.sql" script, passing in the base directory of the installation software as a parameter.

```
SQL> CONN sys@pdb1 AS SYSDBA
SQL> @apex_epg_config.sql /home/oracle
```

Unlock the ANONYMOUS account.

```
SQL> CONN sys@cdb1 AS SYSDBA

DECLARE
    l_passwd VARCHAR2(40);
BEGIN
    l_passwd := DBMS_RANDOM.string('a',10) || DBMS_RANDOM.string('x',10) || '1#';
    -- Remove CONTAINER=ALL for non-CDB environments.
    EXECUTE IMMEDIATE 'ALTER USER anonymous IDENTIFIED BY ' || l_passwd || ' ACCOUNT UNLOCK CONTAINER=ALL';
END;
//
```

Check the port setting for XML DB Protocol Server.

```
SQL> CONN sys@pdb1 AS SYSDBA
SQL> SELECT DBMS_XDB.gethttpport FROM DUAL;

GETHTTPPORT

0

1 row selected.

SQL>
```

If it is set to "0", you will need to set it to a non-zero value to enable it.

```
SQL> CONN sys@pdb1 AS SYSDBA
SQL> EXEC DBMS_XDB.sethttpport(8080);
PL/SQL procedure successfully completed.
SQL>
```

APEX should now be available from a URL like "http://machine:port/apex".

# **Oracle HTTP Server (OHS) Configuration**

If you want to use Oracle HTTP Server (OHS) to front APEX, you can follow the instructions here.

Change the password and unlock the APEX\_PUBLIC\_USER account. This will be used for any Database Access Descriptors (DADs).

```
SQL> ALTER USER APEX_PUBLIC_USER IDENTIFIED BY myPassword ACCOUNT UNLOCK;
```

If you don't want the password to expire you will need to create a new profile with password expiration disabled and assign it to the user.

Create a DAD in the OHS:

- Log into EM (http://server:port/em)
- From the tree select "Farm\_DomainName > Web Tier > ohs1"
- On the resulting page select "Oracle HTTP Server > Administration > Advanced Configuration"
- From the dropdown list slect "dads.conf" and click the "Go" button.
- Edit the "dads.conf" file, adding an entry like that shown below, then click the "Apply" button.

```
<Location /apex>
  Order deny, allow
  PlsqlDocumentPath docs
  AllowOverride None
   PlsqlDocumentProcedure
                                  wwv_flow_file_mgr.process_download
   PlsqlDatabaseConnectString
                                  pdb1 TNSFormat
                                  AMERICAN_AMERICA.AL32UTF8
   PlsqlNLSLanguage
  PlsqlAuthenticationMode
                                  Basic
   SetHandler
                                  pls_handler
   PlsqlDocumentTablename
                                  wwv_flow_file_objects$
                                  APEX_PUBLIC_USER
   PlsqlDatabaseUsername
  PlsqlDefaultPage
                                  apex
   PlsqlDatabasePassword
                                  myPassword
   PlsqlRequestValidationFunction wwv_flow_epg_include_modules.authorize
   PlsqlPathAlias
   PlsqlPathAliasProcedure
                                  wwv_flow.resolve_friendly_url
   Allow from all
</Location>
```

- Select the "Oracle HTTP Server > Control > Restart" option.
- Click the resulting "Restart" button.
- Once restarted, click the "Close" button.

Alternatively, edit the "dads.conf" file directly. For the OHS that comes with Forms and Reports Services, this is located here "\$FR\_INST/config/OHS/ohs1/mod\_plsql/dads.conf". Once amended, remember to restart the HTTP server.

```
$ $FR_INST/bin/opmnctl restartproc process-type=OHS
```

Copy the APEX images to your Oracle HTTP Server.

\$ cp -R /tmp/apex/images \$FR\_INST/config/OHS/ohs1/htdocs/apex\_images

Make them available from the "/i/" alias by adding the following alias to the virtual host defined in the "ssl.conf" or "httpd.conf" file in the "\$FR\_INST/config/OHS/ohs1" directory.

Alias /i/ "/u01/app/oracle/middleware/FR\_inst/config/OHS/ohs1/htdocs/apex\_images/"

APEX should now be available from a URL like "http://machine:port/apex".

#### **Network ACLs**

If your APEX installation needs to contact other servers on the network, you will need to create the appropriate ACLs to allow account to the network services. This is discussed here.

For more information see:

- Application Express Documentation Release 5.1
- <u>Application Express Documentation Release 5.0</u>
- Oracle Application Express Installation Guide Release 5.0
- Oracle Application Express (APEX) Patches
- Fine-Grained Access to Network Services in Oracle Database 11g Release 1
- Multitenant: Uninstall APEX from the CDB in Oracle Database 12c Release 1 (12.1)
- Oracle REST Data Services (ORDS): Installation on Tomcat
- APEX Articles

Hope this helps. Regards Tim...

#### Back to the Top.

ادفع ۷۷۷۷جنیه بدل او قسط علی ۱۲ شهر بقیمه من ۰۰۰۹ جنیه

28 comments, read/add them...



Home | Articles | Scripts | Blog | Certification | Videos | Misc | About

About Tim Hall

Copyright & Disclaimer