Install and Configure Oracle APEX with ORDS and Apache Tomcat

PART 1: Installation of Oracle Apex 22.1

1. In our case the downloaded apex software (apex_22.1_en.zip) is present in the below location.

```
cd /u01/apex_22.1/apex/
sqlplus /nolog
conn sys as sysdba
alter session set container=pdb1;
@apexins.sql SYSAUX SYSAUX TEMP /i/
@apxchpwd.sql --user name:ADMIN password: Apex*123
ALTER USER APEX_PUBLIC_USER ACCOUNT UNLOCK;
ALTER USER APEX_PUBLIC_USER IDENTIFIED BY Apex#123;
@apex_rest_config.sql
APEX_LISTENER Password: Apex*123,
APEX_REST_PUBLIC_USER Password: Apex*123
```

PART 2: Installation of Tomcat & Java JDK

1. In our case the downloaded Tomcat, Java jdk softwareis present in the below location.

cd /home/u01

2. Extract the software setup as below from the above location.

```
[root@localhost u01]# tar xvf apache-tomcat-9.0.65.tar.gz [root@localhost u01]# tar xvf jdk-18_linux-x64_bin.tar.gz [root@localhost u01]# ls —lrth
```

3. Make sure to set the following environment variable to start the tomcat application.

```
[root@localhost u01]# vi tomcat.env
export JAVA_HOME=/home/u01/jdk-18.0.2
export CATALINA_HOME=/home/u01/apache-tomcat-9.0.65
export CATALINA_BASE=$CATALINA_HOME
[root@localhost u01]#.tomcat.env
```

4. Check Startup and shutdown of the tomcat service from the following location

[root@localhost u01]# cd \$CATALINA_HOME

[root@localhost apache-tomcat-9.0.65]# cd bin/ [root@localhost bin]# sh startup.sh systemctl stop firewalld systemctl disable firewalld

5. Check in Browser by url http://192.168.5.114:8080

PART 3: Install Oracle Rest Data service (ORDS)

1. Create a separate directory for ORDS insllataion and then Unzip ORDS software as below in the following location.

[root@localhost u01]# mkdir -p /home/u01/ords [root@localhost ords]# unzip ords-22.2.0.172.1758.zip [root@localhost ords]# ls —lrth

2. Make a directory to hold the configuration and edit the database configuration template(params file) as below

[root@localhost ords]# mkdir -p /home/u01 /ords/conf

[root@localhost ords]# ls -lrth

[root@localhost ords]# vi/home/u01/ords/params/ords_params.properties

db.hostname=192.168.5.109 db.port=1521 db.servicename=pdb1 #db.sid= # Next 2 lines for CDB installations only. #cdb.common.schema=false #db.serviceNameSuffix=.your db domain db.username=APEX_PUBLIC_USER db.password=Apex#123 migrate.apex.rest=false plsql.gateway.add=true rest.services.apex.add=true rest.services.ords.add=true schema.tablespace.default=SYSAUX schema.tablespace.temp=TEMP standalone.mode=false # Next 3 lines for standalone mode only. #standalone.use.https=true #standalone.http.port=8080 # ORDS19 Onward

```
#standalone.static.path=/home/oracle/apex/images
# Pre-ORDS19
#standalone.static.images=/home/oracle/apex/images
user.apex.listener.password=Apex*123
user.apex.restpublic.password=Apex*123
user.public.password=Apex*123
user.tablespace.default=SYSAUX
user.tablespace.temp=TEMP
sys.user=SYS
sys.password=sys
# Enable REST Enabled SQL.
restEnabledSql.active=true
# Enable SQL Developer Web. Available from 19.4 onward. Requires REST Enabled SQL.
feature.sdw=true
# Enable database APIs. Available from 19.1 onward.
database.api.enabled=true
```

```
[root@localhost ~]# $JAVA_HOME/bin/java -jar ords.war configdir /u01/ords/conf
[root@localhost ~]# $JAVA_HOME/bin/java -jar ords.war
```

```
[root@localhost ~]# mkdir $CATALINA_BASE/webapps/i/
[root@localhost ~]# cp -R /tmp/apex/images/* $CATALINA_BASE/webapps/i/
[root@localhost ~]# cd home/u01/ords
[root@localhost ords]# cp ords.war $CATALINA_BASE/webapps/
```

```
http://<server-name>:<port>/ords/
http://192.168.5.114:8080/ords/
http://ol7.localdomain:8080/ords/
```

Credential

url: http://192.168.5.114:8080/ords

WORKSPACE: INTERNAL

USER: ADMIN

PASSWORD: Apex*123

WORKSPACE :HIT_DEV

USER :HIT_DEV

PASSWORD: root

WORKSPACE :OMS_DEV

 ${\sf USER:OMS_DEV}$

PASSWORD: root