



Author – Anand Mandilwar

<https://anandmandilwar.com>

Re-org of EBS Database using export/Import of complete database

Database Version – 11.2.03 (Hosted on Oracle Linux)

EBS Version – 12.2.2

MOS Document to be followed - Doc ID 741818.1

- **Export the source database instance**

- Shut down the application services
- Create a working directory on the DB server node
 - \$ mkdir -p /dummy/oracle/expimp
- Copy \$AU_TOP/patch/115/import/auexpdp.dat from the source administration server node to the working directory in the source database server node. Use a text editor to modify the file to reflect the source environment and other customized parameters
- Parameter modified as per my environment
 - parallel=12
 - filesize=15728640000 (15 G)
- create a directory called "dmpdir" as defined in export parameter file
 - Connect as sysdba
 - create directory dmpdir as '/dummy/oracle/expimp'
- Source the DB home and Oracle SID
- Login to DB server and start the export
 - \$ expdp "/ as sysdba" parfile=/dummy/oracle/expimp/auexpdp.dat
 - **Issue encountered**
 - ORA-39038: Object path "TABLE" is not supported for SCHEMA jobs OR
 - ORA-39038: Object path "SCHEMA" is not supported for FULL jobs
- **Solution**
 - Connect as sysdba
 - Run \$ORACLE_HOME/rdbms/admin/catmet2.sql
 - Verify if below SQL returns any record
 - SELECT named, object_path, comments FROM schema_export_objects WHERE named='Y';
 - If no, retry export
- Export finishes successfully (**took around 12 hrs**) – with some exceptions viz (SR 3-13518999651 is already logged with Oracle but no fruitful response so far)
 - ORA-04063: table "APPS_NE.schedulerRule1602_TAB" has errors
 - ORA-04063: table "CSR.CSR_RULES_B" has errors
 - ORA-04063: table "APPS_NE.rcRouteFuncDelay11572_TAB" has errors
 - ORA-04063: table "AZ.AZ_DIFF_RESULTS" has errors

Preparation for target database

- Generate target database instance creation script aucrdb.sql

- Copy below SQLs from \$AU_TOP/patch/115/sql/ and put them on the working directory (created above) on the DB server
 - auclondb.sql
 - auque1.sql
 - audb1120.sql
 - ausy1120.sql
 - aujv1120.sql
 - aumsc1120.sql
- Login to DB server, source the ORACLE HOME, set ORACLE SID and login to SQLplus as sysdba.
- Run the script using 'system' to generate → Parameter is 11 b'cos the underlying DB is 11g
 - sqlplus system/[system password] @auclondb.sql **11**
 - It creates **aucrdb.sql** in the same working directory
- Record Advanced Queue settings
 - Run the script using 'system' to generate
 - sqlplus system/[system password] @ auque1.sql.
 - It generates auque2.sql in the same working directory
- Prepare a target database instance
 - Create pfile from spfile – if the existing DB is using spfile
 - Copy the pfile thus generated to the working directory
 - Create another folder to keep all the new .dbf files, control files under the same 'oradata' FS
 - For this purpose, I created one folder called 'oradata1' within '/dummy/oradata'
 - \$ cd /dummy/oradata
 - \$ **mkdir -p oradata1**
 - Rename the pfile to ensure it matches the SID. For my case - initDUMMY1.ora. "DUMMY1" is the new DB name
 - Modify the pfile to replace all the occurrences of 'DUMMY' to 'DUMMY1' and 'dummy' to 'dummy1' especially below 2-3 parameters
 - db_name
 - log_archive_dest → create another folder for the new DB
 - service_names
 - Create the target database instance (This is done using the same ORACLE_HOME)
 - Modify the "aucrdb.sql" created above to
 - Rename the datafiles location as per your configuration. e.g. in my case I replaced all the occurrences of "/dummy/oradata" with "/dummy/oradata/**oradata1**/"
 - Updated each datafile with the storage parameter – "next extent", "autotensible" & "maxsize"
 - Allocated adequate no. of datafiles depending on the used space in each of the tablespaces (I had the data from the existing database)
 - Ensured the syntax is correct for each of the commands
 - Added 3-4 more logfile groups (this is needed for import)
 - Set ORACLE_HOME → \$ export ORACLE_HOME=/dummy/oracle/product/11.2.0.3

- Set ORACLE_SID to new SID (as updated in the pfile). For my case, it was “DUMMY1” → \$ export ORACLE_SID=DUMMY1
- Login as sysdba
 - \$ sqlplus /nolog
 - \$ conn /as sysdba
 - \$ startup mount pfile='/dummy/oracle/expimp/initDUMMY1.ora'
 - Got an error while starting DB
 - ORA-27102: out of memory
 - Linux-x86_64 Error: 28: No space left on device
 - Solution
 - Shut down the existing DB and listener – DUMMY and then start the new DB. This resolved the error.
 - \$ @aurcrdb.sql
 - Ensure none of the scripts in the “aurcrdb.sql” errored out and all the specified Tablespaces are created properly. In my case “APPS_TS_MEDIA” tablespace was not created as the command was having syntax error.
 - Exit of the SQL
 - Set up the sys schema
 - Run “audb1120.sql” using sysdba
 - sqlplus "/ as sysdba" @audb1120.sql
 - set up SYSTEM schema
 - sqlplus system/[system password] @ausy1120.sql → SYSTEM password is default “manager”

```
SQL> !ls -ltr ausy1120.sql
-rwxr-xr-x 1 ortalqdi dbtalqdi 5252 Oct 25 09:45 ausy1120.sql
```

```
SQL> @ausy1120.sql
```

```
SQL> @ausy1120.sql
```

```
PL/SQL procedure successfully completed.
```

```
PL/SQL procedure successfully completed.
```

```
-----
```

```
--- ausy1120 started at 26-OCT-2016 12:42:53 ---
```



```
'---AUSY1120COMPLETEDAT'||TO_CHAR(SYSDATE,'DD-MON-YYYYHH24:MI:SS')---
```

```
--- ausy1120 completed at 26-OCT-2016 12:42:53 ---
```

```
Commit complete.
```

```
Disconnected from Oracle Database 11g Enterprise Edition Release 11.2.0.3.0 - 64bit Production
With the Partitioning, OLAP, Data Mining and Real Application Testing options
-bash-3.2$
```

- Install JVM
 - sqlplus system/[system password] @aujv1120.sql
- Install other required components
 - sqlplus system/[system password] @aumsc1120.sql FALSE

SYSAUX TEMP
- Run below SQL to make sure dba_registry does not have any INVALID component which is valid in other instances.
 - Source ORACLE_HOME

- Set ORACLE_SID=DUMMY1
- Login as sysdba and run – select * from dba_registry where status ='INVALID'
 - Only COMP_ID that was INVALID in new instance but VALID in all other existing environments was – CONTEXT (Oracle Text)

- Followed note - 1906873.1 to make COMP_ID as valid

```

SQL> select name from v$database;
NAME
-----
[REDACTED]
[REDACTED]

SQL> !ls -ltr $ORACLE_HOME/ctx/admin/driacc.plb
-rw-rw-rw- 1 [REDACTED] [REDACTED] 5040 Apr 10 2014 /[REDACTED]/oracle/product/11.2.0.3/ctx/admin/driacc.plb
SQL> @$ORACLE_HOME/ctx/admin/driacc.plb
Package body created.

SQL> set serveroutput on
SQL> execute sys.validate_context;
PL/SQL procedure successfully completed.

SQL> select comp_name, status, substr(version,1,10) as version from dba_registry where comp_id = 'CONTEXT';
COMP_NAME
-----
STATUS
-----
VERSION
-----
Oracle Text
VALID
11.2.0.3.0
COMP_NAME
-----
STATUS
-----
VERSION
-----

```



- - Conn as sysdba
 - \$ ALTER SESSION SET CURRENT_SCHEMA=SYS;
 - \$ grant select on SYS.DBA_PROCEDURES to ctxsys;
 - \$ ALTER SESSION SET CURRENT_SCHEMA=CTXSYS;
 - \$ SELECT 'Calling ctx/admin/driacc.plb on ' || SYSTIMESTAMP FROM dual;
 - \$ @@?/ctx/admin/driacc.plb;
 - \$ execute sys.validate_context;
 - \$ select comp_name, status, substr(version,1,10) as version from dba_registry where comp_id = 'CONTEXT'; → it is VALID now. **I was good to run the import now**

- **Import the application database instance**

- Increase the parallel max server parameter to 20 for the new DB –DUMMY1
- Login to DUMMY1 as sysdba and run
 - alter system set parallel_max_servers=20 scope=memory; → 'memory' because we are using pfile to start the DB
- Provision for additional logfile group – this was taken care in the 'aucrdb.sql' itself. I added 3 more groups with 2 members in each group
- Copy the \$AU_TOP/patch/115/import/auimpdp.dat from application server to the working directory on DB server
- Modify the parameter file to include below parameters

- parallel=12
- EXCLUDE=INDEX,STATISTICS,CONSTRAINTS
- dumpfile=aexp%U.dmp
- Create a directory in the system schema with the name set to the directory specified in the template and the path set to where the export dump files will reside
 - Login to new DB –DUMMY1
 - sqlplus system/[system password]
 - create directory dmpdir as '/dummy/oracle/expimp'
- Source ORACLE_HOME, set ORACLE_SID=DUMMY1 and kick off IMPORT
 - \$ impdp ""/ as sysdba" parfile=/dummy/oracle/expimp/auimpdp.dat → **this runs for 8-10 hrs**

```

SQL> conn system
Enter password:
Connected.
SQL> create directory dmpdir as '_____oracle/expimp';
Directory created.

SQL> exit
Disconnected from Oracle Database 11g Enterprise Edition Release 11.2.0.3.0 - 64bit Production
With the Partitioning, OLAP, Data Mining and Real Application Testing options
-bash-3.25
-bash-3.25 echo $ORACLE_HOME
-bash-3.25 echo $ORACLE/product/11.2.0.3
-bash-3.25 echo $ORACLE_SID
-bash-3.25
-bash-3.25 impdp ""/ as sysdba" parfile=_____oracle/expimp/auimpdp.dat
Import: Release 11.2.0.3.0 - Production on Wed Oct 26 16:34:01 2016
Copyright (c) 1982, 2011, Oracle and/or its affiliates. All rights reserved.

Connected to: Oracle Database 11g Enterprise Edition Release 11.2.0.3.0 - 64bit Production
With the Partitioning, OLAP, Data Mining and Real Application Testing options

```

- Import INDEXES
 - Create a new parameter file “**ind_sqlfile.par**” with the following parameters.
 - INCLUDE=INDEX
 - SQLFILE=createindx.sql
 - Source the ORACLE_HOME
 - Set ORACLE_SID to DUMMY1
 - Run the import using below command. This will generate a file called “createindx.sql” in the same working directory (/dummy/oracle/expimp)
 - impdp ""/ as sysdba" parfile=/dummy/oracle/expimp/ind_sqlfile.par
- - bash-3.25


```

          -bash-3.25
          -bash-3.25 ls -ltr _____oracle/expimp/ind_sqlfile.par
          -rw-r--r-- 1 ortalqdi dbtalqdi 102 Oct 27 09:07 _____oracle/expimp/ind_sqlfile.par
          -bash-3.25
          -bash-3.25
          -bash-3.25 impdp ""/ as sysdba" parfile=_____oracle/expimp/ind_sqlfile.par
          Import: Release 11.2.0.3.0 - Production on Thu Oct 27 09:12:32 2016
          Copyright (c) 1982, 2011, Oracle and/or its affiliates. All rights reserved.

          Connected to: Oracle Database 11g Enterprise Edition Release 11.2.0.3.0 - 64bit Production
          With the Partitioning, OLAP, Data Mining and Real Application Testing options
          Master table "SYS"."SYS_SQL_FILE_FULL_01" successfully loaded/unloaded
          Starting "SYS"."SYS_SQL_FILE_FULL_01": "***** AS SYSDBA" parfile=_____oracle/expimp/ind_sqlfile.par
          Processing object type DATABASE_EXPORT/SCHEMA/TABLE/INDEX/INDEX
          Processing object type DATABASE_EXPORT/SCHEMA/TABLE/INDEX/FUNCTIONAL_INDEX/INDEX
          Processing object type DATABASE_EXPORT/SCHEMA/TABLE/INDEX/STATISTICS/INDEX_STATISTICS
          Processing object type DATABASE_EXPORT/SCHEMA/TABLE/INDEX/STATISTICS/FUNCTIONAL_INDEX/INDEX_STATISTICS
          Processing object type DATABASE_EXPORT/SCHEMA/TABLE/INDEX/BITMAP_INDEX/INDEX
          Processing object type DATABASE_EXPORT/SCHEMA/TABLE/INDEX/STATISTICS/BITMAP_INDEX/INDEX_STATISTICS
          Job "SYS"."SYS_SQL_FILE_FULL_01" successfully completed at 09:18:09
          
```
- Open the “createindx.sql” file and replace every occurrences of “PARALLEL 1” with “PARALLEL 20” → This will speed up the INDEX creation.
- Login to new DB – DUMMY1 as sysdba and run the script - createindx.sql
 - \$ sqlplus “/as sysdba”
 - \$ @ createindx.sql → **This runs for 4-5 hrs**

```

SQL> set echo on
SQL> set timing on
SQL> !pwd
/u01/oracle/expimp
SQL> spool createindx.log
SQL> @createindx.sql

PL/SQL procedure successfully completed.

Elapsed: 00:00:00.02
SQL> CREATE INDEX "JTF"."JTF_AMV_ITEMS_URL_CTX" ON "JTF"."JTF_AMV_ITEMS_B" ("URL_STRING")
  2  INDEXTYPE IS "CTXSYS"."CONTEXT" PARAMETERS ('datastore apps,jtf_url,datastore filter' ctxsys.null_filter section group ctxsys.html_section_group
exer ctxsys.default_lexer language column language_code stoplist ctxsys.default_stoplist storage ctxsys.default_storage wordlist ctxsys.default_wordlist'
PARALLEL 20 ;
Index created.
Elapsed: 00:00:00.41
SQL> ALTER INDEX "JTF"."JTF_AMV_ITEMS_URL_CTX" NOPARALLEL;
Index altered.
Elapsed: 00:00:00.01
SQL> spool off
SQL>

```

- Import CONSTRAINTS

- Create a new parameter file “**constraint_sqlfile.par**” with the following parameters.
 - INCLUDE=CONSTRAINT
 - SQLFILE=createconstr.sql
 - directory=dmpdir
 - dumpfile=aexp%U.dmp
 - logfile=create_const_ddl.log
- Source the ORACLE_HOME
- Set ORACLE_SID to DUMMY1
- Run the import using below command. This will generate a file called “createconstr.sql”
- Login to new DB – DUMMY1 as sysdba and run the script - createindx.sql
 - \$ sqlplus “/as sysdba”
 - \$ @ createconstr.sql → **This runs for 30 min**

```

bash-3.2$ impdp "" as sysdba" parfile=.../oracle/expimp/constraint_sqfile.par
Import: Release 11.2.0.3.0 - Production on Thu Oct 27 14:19:42 2016
Copyright (c) 1982, 2011, Oracle and/or its affiliates. All rights reserved.

Connected to: Oracle Database 11g Enterprise Edition Release 11.2.0.3.0 - 64bit Production
With the Partitioning, OLAP, Data Mining and Real Application Testing options
Master table "SYS"."SYS_SQL_FILE_FULL_01" successfully loaded/unloaded
Starting "SYS"."SYS_SQL_FILE_FULL_01": "/***** AS SYSDBA" parfile=.../oracle/expimp/constraint_sqfile.par
Processing object type DATABASE_EXPORT/SCHEMA/TABLE/CONSTRAINT/CONSTRAINT
Processing object type DATABASE_EXPORT/SCHEMA/TABLE/CONSTRAINT/REF_CONSTRAINT
Job "SYS"."SYS_SQL_FILE_FULL_01" successfully completed at 14:20:48
bash-3.2$ 

bash-3.2$ sqlplus "/as sysdba"
SQL*Plus: Release 11.2.0.3.0 Production on Thu Oct 27 14:26:24 2016
Copyright (c) 1982, 2011, Oracle. All rights reserved.

Connected to:
Oracle Database 11g Enterprise Edition Release 11.2.0.3.0 - 64bit Production
With the Partitioning, OLAP, Data Mining and Real Application Testing options

SQL> spool create_constraint.log
SQL> set echo on
SQL> set timing on
SQL> select name,user from v$database;

NAME      USER
-----
...      SYS

Elapsed: 00:00:00.01
SQL> !pwd
.../oracle/expimp
SQL> @createconstr.sql

```

- Reset Advanced Queues
 - Login as sysdba and run auque2.sql
- Run adgrants.sql
 - Copy \$APPL_TOP/admin/adgrants.sql from application server to DB server in the working directory
 - Login as sysdba and run the script - adgrants.sql APPS

```

Creating PL/SQL Package AD_DBMS_METADATA.

Package created.

Package body created.

End of Creating PL/SQL Package AD_DBMS_METADATA.

Creating PL/SQL Package AD_ZD_SYS.

Package created.

Package body created.

End of Creating PL/SQL Package AD_ZD_SYS.

Start of giving grants. This may take few minutes.

PL/SQL procedure successfully completed.

Start of PURGE DBA_RECYCLEBIN.

PL/SQL procedure successfully completed.

End of PURGE DBA_RECYCLEBIN.

Commit complete.

Disconnected from Oracle Database 11g Enterprise Edition Release 11.2.0.3.0 - 64bit Production
With the Partitioning, OLAP, Data Mining and Real Application Testing options
bash-3.2$ 

```

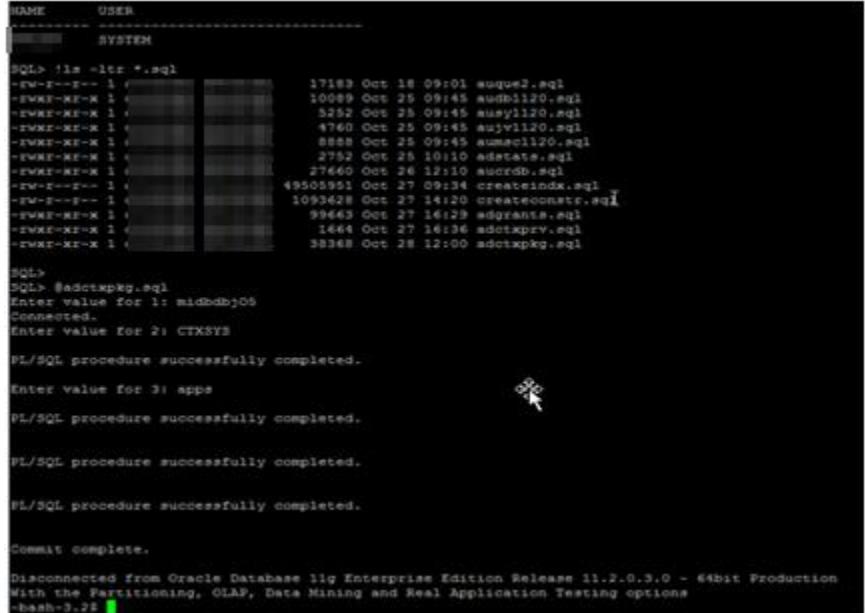
- Grant create procedure privilege on CTXSYS
 - Copy \$AD_TOP/patch/115/sql/adctxprv.sql from the administration server node to the database server node
 - Connect to new DB – DUMMY1 as APPS user (password will be same as that of the existing APPS user in old DUMMY) and run the script
 - \$ sqlplus apps@dummy1
 - \$ @adctxprv.sql [SYSTEM password] CTXSYS → SYSTEM password will be the same as that of DUMMY
- **Change the DBID and DBNAME**
 - Shutdown the database
 - Source ORACLE_HOME and set ORACLE_SID=DUMMY1
 - \$sqlplus "/as sysdba"
 - Shutdown immediate
 - Start the DB in mount mode
 - startup MOUNT PFILE='/dummy/oracle/expimp/initDUMMY1.ora'
 - exit out of SQL
 - Run "nid" – ensuring ORACLE_HOME is correct and ORACLE_SID=DUMMY
 - \$ nid TARGET=sys DBNAME=DUMMY LOGFILE=change_dbname.log → it will prompt for password. Provide 'system' password of the existing DUMMY DB.
 - It will take 2-3 min and the command will finish
 - Look into the log file. You will find entries like

- Database name changed to DUMMY
 - Database ID for database DUMMY changed to 2700263157
 - Successfully changed database name and ID
 - DBNEWID - Completed successfully
- Shut down the database
 - Rename the pfile (/dummy/oracle/expimp/initDUMMY1.ora) to match it with the new DB name – DUMMY. Hence new parameter file is - /dummy/oracle/expimp/initDUMMY.ora
 - Replace all the occurrences of ‘DUMMY1’ with ‘DUMMY’ in the parameter file
- Start the new renamed database instance – DUMMY
 - Source the ORACLE_HOME
 - Set ORACLE_SID=DUMMY
 - \$ sqlplus /nolog
 - \$SQL> conn /as sysdba
 - \$SQL> Startup MOUNT pfile='/dummy/oracle/expimp/initDUMMY.ora'
 - \$SQL>alter database open resetlogs
 - \$ SQL> select dbid, name from v\$database;
- Run autoconfig on DB and APPS tier
 - DB Tier
 - cd to \$ORACLE_HOME/appsutil/scripts/\$CONTEXT_NAME
 - run the script - adautocfg.sh
 - \$cd \$ORACLE_HOME/appsutil/scripts/\$CONTEXT_NAME
 - \$./adautocfg.sh → in my case this completed successfully.
 - APPS Tier
 - \$ cd \$ADMIN_SCRIPTS_HOME
 - \$./adautocfg.sh → This errored out and on reviewing the autoconfig log, it showed an error
 - **AutoConfig could not successfully execute the following scripts:**
 - **Directory:**
`/dummy/inst/fs2/inst/apps/dummy_host_name/admin/install`
`jtfictx.sh INSTE8_PRF`
 - Troubleshooting
 - \$ cd /dummy/inst/fs2/inst/apps/dummy_host_name/admin/install
 - \$./jtfictx.sh


```
[aptalqqi@vmohsalq020 <RUN> ]$ ./jtfictx.sh
jtfictx.sh started at Fri Oct 28 12:48:06 CDT 2016
APPS username: apps
APPS password:
SQL*Plus: Release 10.1.0.5.0 - Production on Fri Oct 28 12:48:20 2016
Copyright (c) 1982, 2005, Oracle. All rights reserved.

Enter value for 1: Enter value for 2: Enter value for 3: Connected.
| ad_ctx_ddl.sync_index(l_index);
|
ERROR at line 96:
ORA-06550: line 96, column 6:
PLS-00201: identifier 'AD_CTX_DDL.SYNC_INDEX' must be declared
ORA-06550: line 96, column 6:
PL/SQL: Statement ignored
```
- Metalink note followed to fix the above error - 1917695.1

- Copy \$AD_TOP/patch/115/sql/adctxpkg.sql from the application server to DB server in the working directory
- Login to the DB (DUMMY) as system and run the script – adctxpkg.sql
 - 1st parameter – system password
 - 2nd parameter – CTXSYS
 - 3rd parameter - APPS



```

NAME          OWNER
-----        -----
SYSTEM

SQL> !ls -ltr *.sql
-rw-r--r-- 1      17189 Oct 18 09:01 adque2.sql
-rw-r--r-- 1      10089 Oct 25 09:45 audb1120.sql
-rw-r--r-- 1      5262 Oct 25 09:45 audsy1120.sql
-rw-r--r-- 1      4760 Oct 25 09:45 audv1120.sql
-rw-r--r-- 1      8888 Oct 25 09:45 autmc1120.sql
-rw-r--r-- 1      2752 Oct 25 10:10 adstate.sql
-rw-r--r-- 1      27660 Oct 26 12:10 adcrdb.sql
-rw-r--r-- 1      49505951 Oct 27 09:34 createindx.sql
-rw-r--r-- 1      1093628 Oct 27 14:20 createconstr.sql
-rw-r--r-- 1      99643 Oct 27 14:29 adgrants.sql
-rw-r--r-- 1      1464 Oct 27 14:36 adctxprv.sql
-rw-r--r-- 1      38368 Oct 28 12:00 adctxpkg.sql

SQL> @adctxpkg.sql
Enter value for 1: middbdbj05
Connected.
Enter value for 2: CTXSYS

PL/SQL procedure successfully completed.

Enter value for 3: apps

PL/SQL procedure successfully completed.

PL/SQL procedure successfully completed.

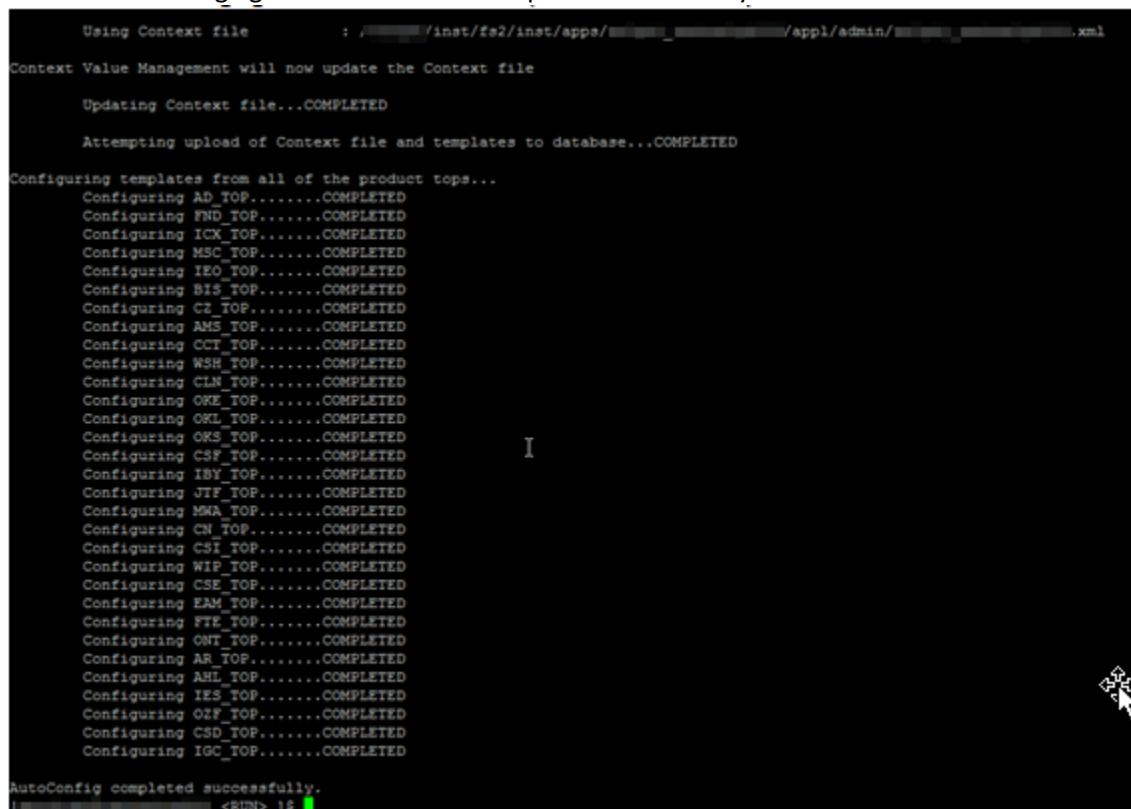
PL/SQL procedure successfully completed.

Commit complete.

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With the Partitioning, OLAP, Data Mining and Real Application Testing options
rash-3:25

```

- Run the autoconfig again → this time it completed successfully.



```

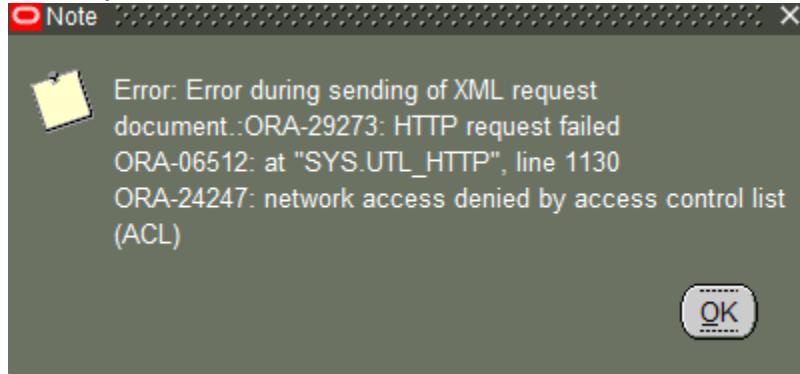
Using Context file      : /inst/fz2/inst/apps/.../appl/admin/.../xml
Context Value Management will now update the Context file
Updating Context file...COMPLETED
Attempting upload of Context file and templates to database...COMPLETED
Configuring templates from all of the product tops...
  Configuring AD_TOP.....COMPLETED
  Configuring FND_TOP.....COMPLETED
  Configuring ICK_TOP.....COMPLETED
  Configuring MSC_TOP.....COMPLETED
  Configuring IEO_TOP.....COMPLETED
  Configuring BIS_TOP.....COMPLETED
  Configuring CZ_TOP.....COMPLETED
  Configuring AMS_TOP.....COMPLETED
  Configuring CCT_TOP.....COMPLETED
  Configuring WSH_TOP.....COMPLETED
  Configuring CLN_TOP.....COMPLETED
  Configuring OME_TOP.....COMPLETED
  Configuring ORL_TOP.....COMPLETED
  Configuring OKS_TOP.....COMPLETED
  Configuring CSF_TOP.....COMPLETED
  Configuring IBY_TOP.....COMPLETED
  Configuring JTF_TOP.....COMPLETED
  Configuring MWA_TOP.....COMPLETED
  Configuring CN_TOP.....COMPLETED
  Configuring CSI_TOP.....COMPLETED
  Configuring WIP_TOP.....COMPLETED
  Configuring CSE_TOP.....COMPLETED
  Configuring EAM_TOP.....COMPLETED
  Configuring FTE_TOP.....COMPLETED
  Configuring GNT_TOP.....COMPLETED
  Configuring AR_TOP.....COMPLETED
  Configuring AML_TOP.....COMPLETED
  Configuring IES_TOP.....COMPLETED
  Configuring OZF_TOP.....COMPLETED
  Configuring CSD_TOP.....COMPLETED
  Configuring IGC_TOP.....COMPLETED

AutoConfig completed successfully.
|<RUN> |

```

- Start the instance →

- All the application services came up w/o any error.
- Able to submit one job which completed successfully and able to view the o/p
- Support team **reported and issue with the vertex**



- While running the PL/SQL block in the DB using XXxxx user, I was getting the same **error**.

```

SQL>set serveroutput on;
SQL>begin
 2  vertexoicquoexample('SALE',1);
 3  end;
 4 /
*****
Quotation : SALE request failed with the following error:
Error during sending of XML request document.:ORA-29273: HTTP request failed
ORA-06512: at "SYS.UTL_HTTP", line 1130
ORA-24247: network access denied by access control list (ACL)
*****
PL/SQL procedure successfully completed.

Elapsed: 00:00:00.21
SQL>begin
 2  vertexoicquoexample('PURCHASE',1);
 3  end;
 4 /
*****
Quotation : PURCHASE request failed with the following error:
Error during sending of XML request document.:ORA-29273: HTTP request failed
ORA-06512: at "SYS.UTL_HTTP", line 1130
ORA-24247: network access denied by access control list (ACL)
*****
PL/SQL procedure successfully completed.

```

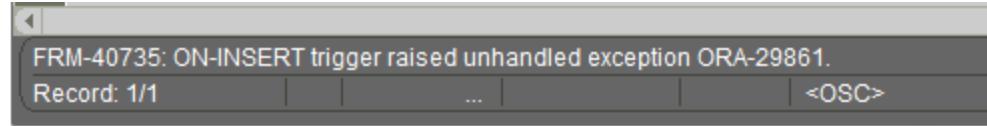
- Troubleshooting**

- Upon investigating, this looked to be an issue with ACL
- Ran below SQL to compare the o/p from a working and DUMMY



- I found few of the ACLs are missing in DUMMY - /sys/acls/utlpkg.xml & /sys/acls/network_services2.xml
- Created the ACL and assigned it to the required user with the correct privilege
- Assigned the ACL to the network (**Metalink Document ID - 1080105.1**)
- Tested the connectivity again by running the same pl/sql block and it completed successfully.

- 2 spatial indexes were in “FAILED” state and hence causing an error while saving locations.



- Troubleshooting and resolution
 - Ran below query
 - *select owner, index_name, index_type, status, domidx_status, domidx_opstatus from dba_indexes where domidx_opstatus != 'VALID' AND INDEX_NAME NOT IN ('IBC_CITEM VERSIONS TL CT1', 'TEST_I') order by 1*
 - and it provided 2 INDEXES (PER_ADDRESSES_SPT & HR_LOCATIONS_SPT) OWNED BY HR.
 - Solution is to drop (requery DBA_OBJECTS to confirm if the object is really dropped) and recreate them but while recreating, got an error


```
SQL> CREATE INDEX "HR"."PER_ADDRESSES_SPT" ON "HR"."PER_ADDRESSES" ("GEOMETRY")
  INDEXTYPE IS "MDSYS"."SPATIAL_INDEX"  PARAMETERS ('rebuild_index=MDRT_54B5B$ sdo_indx_dims=2 sdo_rtr_pctfree=10 tablespace=APPS_TS_TX_IDX')  2 ;
CREATE INDEX "HR"."PER_ADDRESSES_SPT" ON "HR"."PER_ADDRESSES" ("GEOMETRY"
'
ERROR at line 1:
ORA-29855: error occurred in the execution of ODCIINDEXCREATE routine
ORA-13203: failed to read USER_SDO_GEM_METADATA view
ORA-13203: failed to read USER_SDO_GEM_METADATA view
ORA-06512: at "MDSYS.SDO_INDEX_METHOD_10", line 10
```
 - Queried "MDSYS.SDO_GEM_METADATA_TABLE" and found that the owner is SYS for the "sdo_table_name = 'HR_LOCATIONS_ALL'" & "HR"."PER_ADDRESSES". "OWNER" should be HR.
 - Updated "MDSYS.SDO_GEM_METADATA_TABLE" to set the OWNER as "HR" for these 2 records
 - *update MDSYS.SDO_GEM_METADATA_TABLE set sdo_owner = 'HR' where sdo_table_name = 'HR_LOCATIONS_ALL'*
 - Recreated the index and it completed successfully


```
SQL> show user
USER is "SYS"
SQL> drop index "HR"."PER_ADDRESSES_SPT";
Index dropped.

SQL> CREATE INDEX "HR"."PER_ADDRESSES_SPT" ON "HR"."PER_ADDRESSES" ("GEOMETRY")
  INDEXTYPE IS "MDSYS"."SPATIAL_INDEX"  PARAMETERS ('rebuild_index=MDRT_54B5B$ sdo_indx_dims=2 sdo_rtr_pctfree=10 tablespace=APPS_TS_TX_IDX')  2 ;
Index created.

SQL> drop index "HR"."HR_LOCATIONS_SPT";
Index dropped.

SQL> CREATE INDEX "HR"."HR_LOCATIONS_SPT" ON "HR"."HR_LOCATIONS_ALL" ("GEOMETRY")
  INDEXTYPE IS "MDSYS"."SPATIAL_INDEX"  PARAMETERS ('rebuild_index=MDRT_54B5C$ sdo_indx_dims=2 sdo_rtr_pctfree=10 tablespace=APPS_TS_TX_IDX')  2 ;
Index created.
```
 - Again queried to check the 'domidx_opstatus' from dba_indexes and it was VALID.
- Asked the user to validate the 'save location' functionality and it worked fine.

```
Elapsed: 00:00:00.21
SQL>begin
  2  vertexoicquoexample('SALE',1);
  3  end;
  4 /
*****
Quotation : SALE request was successfully processed.
*****
-----  
Document Number:
Document Date: 21-APR-04
Transaction ID: T101
Trans Total Amt: 1.8
Line Item Number: 1
Total Tax: 1.8
Tax Type: SALES
Calculated Tax: 1.8
-----  
PL/SQL procedure successfully completed.

Elapsed: 00:00:00.90
SQL>begin
  2  vertexoicquoexample('PURCHASE',1);
  3  end;
  4 /
*****
Quotation : PURCHASE request was successfully processed.
*****
-----  
Document Number:
Document Date: 21-APR-04
Transaction ID: T101
Trans Total Amt: 1.8
Line Item Number: 1
Total Tax: 1.8
Tax Type: SALES
Calculated Tax: 1.8
-----  
■ PL/SQL procedure successfully completed.
```