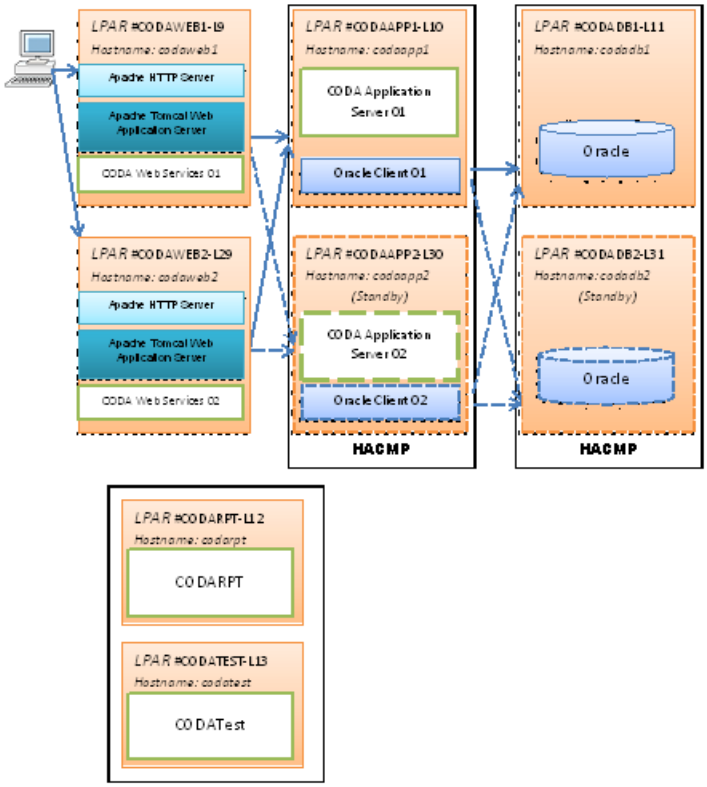
ACCOUNT:

MDC-p740A		LPAR # CODAWEB1-L9	LPAR # CODAAPP1-L10	LPAR # CODADB1-L11	LPAR CODARPT-L12		LPAR # CODATEST-L13
Hostname/ IP		**codaweb1** **en0** 10.253.142.81 **en1** 10.253.136.81 **en2** 10.253.133.16 **en3 10.253.133.140(svc)**	**codaapp1** **en0** 10.253.142.82 **en1** 10.253.136.82 **en2** 10.253.133.17 **en3** 10.253.133.141 **10.253.133.142(svc)**	**codadb1** **en0** 10.253.142.83 **en1** 10.253.136.83 **en2** 10.253.133.18 **en3** 10.253.133.143 **10.253.133.144(svc)**	**codarpt** **en0** 10.253.142.84 **en1** 10.253.136.84 **en2** 10.253.133.19 **en3 10.253.133.145(svc)**		**codatest** **en0** 10.253.142.85 **en1** 10.253.136.85 **en2** 10.253.133.20 **en3 10.253.133.146(svc)**
Middleware/ Services		Apache/2.2.15 (Unix) apache-tomcat-6.0.28 Coda Web Process DDS	CODA Application nameServer adminConsole financial assets ePay eConfigurator icm	Oracle Database 11g Release 11.2.0.2.0 - 64bit Production	Oracle Database 11g Release 11.2.0.2.0 - 64bit Production		Apache/2.2.15 (Unix) apache-tomcat-6.0.28 Coda Web Process DDS CODA Application Oracle Database 11g Release 11.2.0.2.0 - 64bit Production
OS User/Password		[redacted]	[redacted]	[redacted]	[redacted]		[redacted]
Middleware User/Password							
DB User/Password				**CODAPROD (DBID=1057852613)** codauser/codaliv sys/system/dbsnmp: Livingston_4U	**Daily DB CODAPROD (DBID=1057852613)** codauser/codaliv sys/system/dbsnmp: Livingston_4U	**Monthly DB MONTHRPT (DBID=1857461778)** codauser/codaliv sys/system/dbsnmp: Livingston_4U	**CODADEV (DBID=3171481910)** codauser/codadev sys/system/dbsnmp: codadev_4U(dev)

MDC-p740B		LPAR # CODAWEB2-L29	LPAR # CODAAPP2-L30	LPAR # CODADB2-L31
Hostname/IP		**codaweb2** **en0** 10.253.142.92 **en1** 10.253.136.92 **en2** 10.253.133.27 **en3 10.253.133.159(svc)**	**codaapp2** **en0** 10.253.142.93 **en1** 10.253.136.93 **en2** 10.253.133.28 **en3** 10.253.133.160	**codadb2** **en0** 10.253.142.94 **en1** 10.253.136.94 **en2** 10.253.133.29 **en3** 10.253.133.161
Middleware/ Services		Apache/2.2.15 (Unix) apache-tomcat-6.0.28 Coda Web Process DDS	CODA Application nameServer adminConsole financial assets ePay eConfigurator icm	Oracle Database 11g Release 11.2.0.2.0 - 64bit Production
OS User/Password		[redacted]	[redacted]	[redacted]
Middleware User/Password				
DB User/Password				[redacted]

TOPOLOGY:



New CODA on AWS: *User: lchen*

Linux Jump Host:
a0almadmjmp01 - 10.0.1.152

Finance Instances:
a0blpcdawww01 - 10.0.201.109
a0blpcdaora01 - 10.0.202.119

```
root@codaapp1:/># cltopinfo
   Cluster Name: codaapp_cluster
   Cluster Connection Authentication Mode: Standard
   Cluster Message Authentication Mode: None
   Cluster Message Encryption: None
   Use Persistent Labels for Communication: No
   There are 2 node(s) and 2 network(s) defined

   NODE codaapp1:
           Network net_diskhbmulti_01
                   codaapp1_1      /dev/mndhb_lv_01
           Network net_ether_01
                   codaapp1_svc    10.253.133.142
                   codaapp1_bt     10.253.133.141

   NODE codaapp2:
           Network net_diskhbmulti_01
```

```
                codaapp2_2      /dev/mndhb_lv_01
        Network net_ether_01
                codaapp1_svc    10.253.133.142
                codaapp2_bt     10.253.133.160

    Resource Group rg_diskhbmulti_01
            Startup Policy   Online On All Available Nodes
            Fallover Policy  Bring Offline (On Error Node Only)
            Fallback Policy  Never Fallback
            Participating Nodes      codaapp1 codaapp2

    Resource Group codaapp_RG
            Startup Policy   Online On Home Node Only
            Fallover Policy  Fallover To Next Priority Node In The List
            Fallback Policy  Fallback To Higher Priority Node In The List
            Participating Nodes      codaapp1 codaapp2
            Service IP Label                 codaapp1_svc

    Total Heartbeats Missed:        0
    Cluster Topology Start Time:    10/09/2015 09:34:21


root@codaapp1:/># clshowres
    Resource Group Name                                 rg_diskhbmulti_01
    Participating Node Name(s)                          codaapp1 codaapp2
    Startup Policy                                      Online On All Available Nodes
    Fallover Policy                                     Bring Offline (On Error Node Only)
    Fallback Policy                                     Never Fallback
    Site Relationship                                   ignore
    Dynamic Node Priority
    Service IP Label
    Filesystems
    Filesystems Consistency Check
    Filesystems Recovery Method
    Filesystems/Directories to be exported (NFSv2/NFSv3)
    Filesystems/Directories to be exported (NFSv4)
    Filesystems to be NFS mounted
    Network For NFS Mount
    Filesystem/Directory for NFSv4 Stable Storage
    Volume Groups
    Concurrent Volume Groups                            mndhb_vg_01
    Use forced varyon for volume groups, if necessary
    Disks
    GMVG Replicated Resources
    GMD Replicated Resources
    PPRC Replicated Resources
    SVC PPRC Replicated Resources
    EMC SRDF. Replicated Resources
    Connections Services
    Fast Connect Services
    Shared Tape Resources
    Application Servers
    Highly Available Communication Links
    Primary Workload Manager Class
    Secondary Workload Manager Class
    Delayed Fallback Timer
    Miscellaneous Data
    Automatically Import Volume Groups
```

```
Inactive Takeover
SSA Disk Fencing
Filesystems mounted before IP configured
WPAR Name
Run Time Parameters:

Node Name                                          codaapp1
Debug Level                                        high
Format for hacmp.out                               Standard

Node Name                                          codaapp2
Debug Level                                        high
Format for hacmp.out                               Standard


Resource Group Name                                codaapp_RG
Participating Node Name(s)                         codaapp1 codaapp2
Startup Policy                                     Online On Home Node Only
Fallover Policy                                    Fallover To Next Priority Node In
The List
Fallback Policy                                    Fallback To Higher Priority Node In
The List
Site Relationship                                  ignore
Dynamic Node Priority
Service IP Label                                   codaapp1_svc
Filesystems                                        ALL
Filesystems Consistency Check                      fsck
Filesystems Recovery Method                        sequential
Filesystems/Directories to be exported (NFSv2/NFSv3)
Filesystems/Directories to be exported (NFSv4)
Filesystems to be NFS mounted
Network For NFS Mount
Filesystem/Directory for NFSv4 Stable Storage
Volume Groups                                      codaapp1_codavg
Concurrent Volume Groups
Use forced varyon for volume groups, if necessary  false
Disks
GMVG Replicated Resources
GMD Replicated Resources
PPRC Replicated Resources
SVC PPRC Replicated Resources
EMC SRDF. Replicated Resources
Connections Services
Fast Connect Services
Shared Tape Resources
Application Servers                                codaapp_serv
Highly Available Communication Links
Primary Workload Manager Class
Secondary Workload Manager Class
Delayed Fallback Timer
Miscellaneous Data
Automatically Import Volume Groups                 false
Inactive Takeover
SSA Disk Fencing                                   false
Filesystems mounted before IP configured           false
WPAR Name
Run Time Parameters:
```

```
   Node Name                                          codaapp1
   Debug Level                                        high
   Format for hacmp.out                               Standard

   Node Name                                          codaapp2
   Debug Level                                        high
   Format for hacmp.out                               Standard
```

root@codaapp1:/># clshowsrv -v

```
   Status of the RSCT subsystems used by HACMP:
   Subsystem         Group            PID          Status
    topsvcs          topsvcs          10944722     active
    grpsvcs          grpsvcs          11075716     active
    grpglsm          grpsvcs                       inoperative
    emsvcs           emsvcs           11272414     active
    emaixos          emsvcs                        inoperative
    ctrmc            rsct             6684890      active

   Status of the HACMP subsystems:
   Subsystem         Group            PID          Status
    clcomdES         clcomdES         7143654      active
    clstrmgrES       cluster          6750452      active

   Status of the optional HACMP subsystems:
   Subsystem         Group            PID          Status
   clinfoES         cluster          10158236     active
```

root@codaapp1:/># clRGinfo

```
   -----------------------------------------------------------------------------
   Group Name     State                          Node
   -----------------------------------------------------------------------------
   rg_diskhbmulti ONLINE                         codaapp1
                  ONLINE                         codaapp2

   codaapp_RG     ONLINE                         codaapp1
                  OFFLINE                        codaapp2
```

clstat - HACMP Cluster Status Monitor

```
-------------------------------------

Cluster: codaapp_cluster        (1574748122)
Thu Nov 19 11:10:05 EST 2015
   State: UP               Nodes: 2
   SubState: STABLE

   Node: codaapp1          State: UP
   Interface: codaapp1_bt (1)          Address: 10.253.133.141
                                       State:   UP
   Interface: codaapp1_1 (0)           Address: 0.0.0.0
                                       State:   UP
   Interface: codaapp1_svc (1)         Address: 10.253.133.142
                                       State:   UP
   Resource Group: rg_diskhbmulti_01                  State:  On line
   Resource Group: codaapp_RG                 State:  On line

   Node: codaapp2          State: UP
   Interface: codaapp2_bt (1)          Address: 10.253.133.160
```

```
root@codadb1:/># cltopinfo
    Cluster Name: codadb_cluster
    Cluster Connection Authentication Mode: Standard
    Cluster Message Authentication Mode: None
    Cluster Message Encryption: None
    Use Persistent Labels for Communication: No
    There are 2 node(s) and 2 network(s) defined

    NODE codadb1:
            Network net_diskhbmulti_01
                    codadb1_1       /dev/mndhb_lv_01
            Network net_ether_01
                    codadb1_svc     10.253.133.144
                    codadb1_bt      10.253.133.143

    NODE codadb2:
            Network net_diskhbmulti_01
                    codadb2_2       /dev/mndhb_lv_01
            Network net_ether_01
                    codadb1_svc     10.253.133.144
                    codadb2_bt      10.253.133.162

    Resource Group rg_diskhbmulti_01
            Startup Policy   Online On All Available Nodes
            Fallover Policy  Bring Offline (On Error Node Only)
            Fallback Policy  Never Fallback
            Participating Nodes      codadb1 codadb2

    Resource Group codadb_RG
            Startup Policy   Online On Home Node Only
            Fallover Policy  Fallover To Next Priority Node In The List
            Fallback Policy  Fallback To Higher Priority Node In The List
            Participating Nodes      codadb1 codadb2
            Service IP Label                 codadb1_svc

    Total Heartbeats Missed:        42
    Cluster Topology Start Time:    12/07/2014 08:42:37

root@codadb1:/># clshowres
    Resource Group Name                                 rg_diskhbmulti_01
    Participating Node Name(s)                          codadb1 codadb2
    Startup Policy                                      Online On All Available Nodes
    Fallover Policy                                     Bring Offline (On Error Node Only)
    Fallback Policy                                     Never Fallback
    Site Relationship                                   ignore
    Dynamic Node Priority
    Service IP Label
    Filesystems
    Filesystems Consistency Check
    Filesystems Recovery Method
    Filesystems/Directories to be exported (NFSv2/NFSv3)
    Filesystems/Directories to be exported (NFSv4)
    Filesystems to be NFS mounted
    Network For NFS Mount
    Filesystem/Directory for NFSv4 Stable Storage
    Volume Groups
    Concurrent Volume Groups                            mndhb_vg_01
    Use forced varyon for volume groups, if necessary
```

```
Disks
GMVG Replicated Resources
GMD Replicated Resources
PPRC Replicated Resources
SVC PPRC Replicated Resources
EMC SRDF. Replicated Resources
Connections Services
Fast Connect Services
Shared Tape Resources
Application Servers
Highly Available Communication Links
Primary Workload Manager Class
Secondary Workload Manager Class
Delayed Fallback Timer
Miscellaneous Data
Automatically Import Volume Groups
Inactive Takeover
SSA Disk Fencing
Filesystems mounted before IP configured
WPAR Name
Run Time Parameters:

Node Name                                          codadb1
Debug Level                                        high
Format for hacmp.out                               Standard

Node Name                                          codadb2
Debug Level                                        high
Format for hacmp.out                               Standard

Resource Group Name                                codadb_RG
Participating Node Name(s)                         codadb1 codadb2
Startup Policy                                     Online On Home Node Only
Fallover Policy                                    Fallover To Next Priority Node In
The List
Fallback Policy                                    Fallback To Higher Priority Node In
The List
Site Relationship                                  ignore
Dynamic Node Priority
Service IP Label                                   codadb1_svc
Filesystems                                        ALL
Filesystems Consistency Check                      fsck
Filesystems Recovery Method                        sequential
Filesystems/Directories to be exported (NFSv2/NFSv3)
Filesystems/Directories to be exported (NFSv4)
Filesystems to be NFS mounted
Network For NFS Mount
Filesystem/Directory for NFSv4 Stable Storage
Volume Groups                                      codadb1_fravg codadb1_dbvg
Concurrent Volume Groups
Use forced varyon for volume groups, if necessary  false
Disks
GMVG Replicated Resources
GMD Replicated Resources
PPRC Replicated Resources
SVC PPRC Replicated Resources
EMC SRDF. Replicated Resources
Connections Services
```

```
Fast Connect Services
Shared Tape Resources
Application Servers                                    codadb_serv
Highly Available Communication Links
Primary Workload Manager Class
Secondary Workload Manager Class
Delayed Fallback Timer
Miscellaneous Data
Automatically Import Volume Groups                     false
Inactive Takeover
SSA Disk Fencing                                       false
Filesystems mounted before IP configured               false
WPAR Name
Run Time Parameters:

Node Name                                              codadb1
Debug Level                                            high
Format for hacmp.out                                   Standard

Node Name                                              codadb2
Debug Level                                            high
Format for hacmp.out                                   Standard
```

Storage Free Space (2015-12-02):

	Tablespace	Allocated MB	Used MB	Free MB	Used	Data Files
1	CODAIDX	430,080.00	392,598.88	37,481.12	91%	14
2	CODATBL	337,920.00	273,047.88	64,872.12	81%	11
3	PERFSTAT	5,120.00	5,113.94	6.06	100%	1
4	SYSAUX	1,629.50	1,544.94	84.56	95%	1
5	SYSTEM	9,960.00	1,280.06	8,679.94	13%	1
6	UNDOTBS2	16,384.00	1,615.06	14,768.94	10%	1
7	USERS	36.00	1.38	34.62	4%	1

Storage Free Space (2015-12-14):

	Tablespace	Allocated MB	Used MB	Free MB	Used	Data Files
1	CODAIDX	430,080.00	400,306.81	29,773.19	93%	14
2	CODATBL	337,920.00	276,294.88	61,625.12	82%	11
3	PERFSTAT	5,120.00	5,113.94	6.06	100%	1
4	SYSAUX	1,629.50	1,542.62	86.88	95%	1
5	SYSTEM	9,960.00	1,280.06	8,679.94	13%	1
6	UNDOTBS2	16,384.00	1,528.12	14,855.88	9%	1
7	USERS	36.00	1.38	34.62	4%	1

Using Email (utl_smtp) in Oracle 11g (results in ORA-24247) – Network Access Control List (ACL)

```
BEGIN
  DBMS_NETWORK_ACL_ADMIN.create_acl (
    acl          => 'acl_test_for_scott.xml',
    description  => 'A test of the ACL functionality',
    principal    => 'SCOTT',
    is_grant     => TRUE,
    privilege    => 'connect',
    start_date   => SYSTIMESTAMP,
    end_date     => NULL);
  COMMIT;
END;
```

```
/


BEGIN
  DBMS_NETWORK_ACL_ADMIN.assign_acl (
    acl => 'acl_test_for_scott.xml',
    host => '172.16.62.216',
    lower_port => 25,
    upper_port => NULL);
  COMMIT;
END;
/
```

codadb1:oracle@/home/oracle>cat /home/oracle/report/codarpt_job.out

```
SQL*Plus: Release 11.2.0.2.0 Production on Mon Dec 14 04:31:01 2015

Copyright (c) 1982, 2010, Oracle.  All rights reserved.


Connected to:
Oracle Database 11g Release 11.2.0.2.0 - 64bit Production


JOB_NAME        F
--------------- -
NIGHTLY         Y

Disconnected from Oracle Database 11g Release 11.2.0.2.0 - 64bit Production
*** Mon Dec 14 04:31:01 EST 2015 : Nightly job is completed ...., going to move archive
logs ...


SQL*Plus: Release 11.2.0.2.0 Production on Mon Dec 14 04:31:01 2015

Copyright (c) 1982, 2010, Oracle.  All rights reserved.


Connected to:
Oracle Database 11g Release 11.2.0.2.0 - 64bit Production

SQL> alter system archive log all
*
ERROR at line 1:
ORA-00271: there are no logs that need archiving


SQL>
System altered.

SQL> Disconnected from Oracle Database 11g Release 11.2.0.2.0 - 64bit Production

SQL*Plus: Release 11.2.0.2.0 Production on Mon Dec 14 04:36:27 2015

Copyright (c) 1982, 2010, Oracle.  All rights reserved.
```

```
Connected to:
Oracle Database 11g Release 11.2.0.2.0 - 64bit Production


1 row updated.

Disconnected from Oracle Database 11g Release 11.2.0.2.0 - 64bit Production
```

codadb1:oracle@/home/oracle>ls -l /home/oracle/report/reset_flag.out

```
-rw-r--r--    1 oracle   oinstall        294 Dec 11 22:01
/home/oracle/report/reset_flag.out
codadb1:oracle@/home/oracle>cat /home/oracle/report/reset_flag.out

SQL*Plus: Release 11.2.0.2.0 Production on Fri Dec 11 22:01:00 2015

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Connected to:
Oracle Database 11g Release 11.2.0.2.0 - 64bit Production


1 row updated.

Disconnected from Oracle Database 11g Release 11.2.0.2.0 - 64bit Production
codadb1:oracle@/home/oracle>ls -l
```

codadb1:oracle@/home/oracle>cat /home/oracle/script/reset_flag.ksh

```
   #!/usr/bin/ksh

   . $HOME/.profile

   cd $HOME/sql
   sqlplus codauser/codaliv@codaprod @reset_flag.sql
   codadb1:oracle@/home/oracle>cd sql
   codadb1:oracle@/home/oracle/sql>cat reset_flag.sql
   update job_status set flag='N' where job_name='NIGHTLY';
   quit;
```

RMAN back up your live database and its archive log files. Every time RMAN is used, there will be at least two sessions launched against the target database: these are known as the default session and the polling session. The default session is the session that invokes the kernelized PL/SQL (kernelized PL/SQL is PL/SQL that is available to the instance before a database has been mounted or opened) that implements RMAN; the polling session monitors the progress of RMAN operations. Whenever RMAN reads or writes a disk or tape, it will need a third session: a channel.The information used by the RMAN commands REPORT and LIST, LIST tells you about backups that have been made, whereas REPORT tells you what needs to be backed upand, the information displayed in the dynamic performance views, is drawn from the RMAN repository: data stored in the controlfile of the target database. It says nothing about reality—whether the backup files actually still exist.

A DELETE EXPIRED command does not delete any files; it only updates the RMAN repository. A DELETE OBSOLETE will physically delete files and update the repository accordingly.

$ rman target /

```
RMAN> show all;
```

```
   RMAN configuration parameters for database with db_unique_name CODAPROD are:
   CONFIGURE RETENTION POLICY TO REDUNDANCY 8;
   CONFIGURE BACKUP OPTIMIZATION OFF; # default
   CONFIGURE DEFAULT DEVICE TYPE TO DISK; # default
   CONFIGURE CONTROLFILE AUTOBACKUP ON;
   CONFIGURE CONTROLFILE AUTOBACKUP FORMAT FOR DEVICE TYPE DISK TO
   '/ora_fra/CODAPROD/autobackup/%F';
   CONFIGURE DEVICE TYPE DISK PARALLELISM 1 BACKUP TYPE TO BACKUPSET; # default
   CONFIGURE DATAFILE BACKUP COPIES FOR DEVICE TYPE DISK TO 1; # default
   CONFIGURE ARCHIVELOG BACKUP COPIES FOR DEVICE TYPE DISK TO 1; # default
   CONFIGURE CHANNEL DEVICE TYPE DISK FORMAT   '/ora_fra/CODAPROD/dbbackup/%U';
   CONFIGURE MAXSETSIZE TO UNLIMITED; # default
   CONFIGURE ENCRYPTION FOR DATABASE OFF; # default
   CONFIGURE ENCRYPTION ALGORITHM 'AES128'; # default
   CONFIGURE COMPRESSION ALGORITHM 'BASIC' AS OF RELEASE 'DEFAULT' OPTIMIZE FOR LOAD
   TRUE ; # default
   CONFIGURE ARCHIVELOG DELETION POLICY TO NONE;
   CONFIGURE SNAPSHOT CONTROLFILE NAME TO
   '/u01/app/oracle/product/11.2.0/dbhome_1/dbs/snapcf_codaprod.f'; # default

RMAN> list failure;

   no failures found that match specification


RMAN> list backup of database;

   BS Key  Type LV Size       Device Type Elapsed Time Completion Time
   ------- ---- -- ---------- ----------- ------------ ---------------
   11222   Full    686.06G    DISK        02:03:26     06-DEC-15
           BP Key: 11222   Status: EXPIRED  Compressed: NO  Tag: TAG20151205T230122
           Piece Name: /ora_fra/CODAPROD/dbbackup/vbqo3cq3_1_1
     List of Datafiles in backup set 11222
     File LV Type Ckp SCN    Ckp Time  Name
     ---- -- ---- ---------- --------- ----
     1       Full 3974944703 05-DEC-15 /u01/app/oracle/oradata/codaprod/system01.dbf
     2       Full 3974944703 05-DEC-15 /u01/app/oracle/oradata/codaprod/sysaux01.dbf
     3       Full 3974944703 05-DEC-15 /ora_idx3/idxfile5.dbf
     4       Full 3974944703 05-DEC-15 /u01/app/oracle/oradata/codaprod/users01.dbf
     5       Full 3974944703 05-DEC-15 /ora_data/datafile1.dbf
     6       Full 3974944703 05-DEC-15 /ora_idx/idxfile1.dbf
     7       Full 3974944703 05-DEC-15 /ora_data/datafile2.dbf
     8       Full 3974944703 05-DEC-15 /u01/app/oracle/oradata/codaprod/perfstat01.dbf
     9       Full 3974944703 05-DEC-15 /ora_data/datafile3.dbf
     10      Full 3974944703 05-DEC-15 /ora_idx/idxfile2.dbf
     11      Full 3974944703 05-DEC-15 /ora_data2/datafile4.dbf
     12      Full 3974944703 05-DEC-15 /ora_idx2/idxfile3.dbf
     13      Full 3974944703 05-DEC-15 /ora_idx2/idxfile4.dbf
     14      Full 3974944703 05-DEC-15 /u01/app/oracle/oradata/codaprod/undotbs02.dbf
     15      Full 3974944703 05-DEC-15 /ora_data2/datafile5.dbf
     16      Full 3974944703 05-DEC-15 /ora_idx3/idxfile6.dbf
     17      Full 3974944703 05-DEC-15 /ora_idx4/idxfile7.dbf
     18      Full 3974944703 05-DEC-15 /ora_data3/datafile6.dbf
     19      Full 3974944703 05-DEC-15 /ora_idx4/idxfile8.dbf
     20      Full 3974944703 05-DEC-15 /ora_idx5/idxfile9.dbf
     21      Full 3974944703 05-DEC-15 /ora_data3/datafile7.dbf
     22      Full 3974944703 05-DEC-15 /ora_data4/datafile8.dbf
```

```
  23      Full 3974944703 05-DEC-15 /ora_idx5/idxfile10.dbf
  24      Full 3974944703 05-DEC-15 /ora_data4/datafile9.dbf
  25      Full 3974944703 05-DEC-15 /ora_data5/datafile10.dbf
  26      Full 3974944703 05-DEC-15 /ora_data5/datafile11.dbf
  27      Full 3974944703 05-DEC-15 /ora_idx6/idxfile11.dbf
  28      Full 3974944703 05-DEC-15 /ora_idx6/idxfile12.dbf
  29      Full 3974944703 05-DEC-15 /ora_idx7/idxfile13.dbf
  30      Full 3974944703 05-DEC-15 /ora_idx7/idxfile14.dbf

BS Key  Type LV Size       Device Type Elapsed Time Completion Time
------- ---- -- ---------- ----------- ------------ ---------------
11227   Full    686.11G    DISK        01:49:49     07-DEC-15
        BP Key: 11227   Status: EXPIRED  Compressed: NO  Tag: TAG20151206T230115
        Piece Name: /ora_fra/CODAPROD/dbbackup/vgqo615r_1_1
  List of Datafiles in backup set 11227
  File LV Type Ckp SCN    Ckp Time  Name
  ---- -- ---- ---------- --------- ----
  1       Full 3975564489 06-DEC-15 /u01/app/oracle/oradata/codaprod/system01.dbf
  2       Full 3975564489 06-DEC-15 /u01/app/oracle/oradata/codaprod/sysaux01.dbf
  3       Full 3975564489 06-DEC-15 /ora_idx3/idxfile5.dbf
  4       Full 3975564489 06-DEC-15 /u01/app/oracle/oradata/codaprod/users01.dbf
  5       Full 3975564489 06-DEC-15 /ora_data/datafile1.dbf
  6       Full 3975564489 06-DEC-15 /ora_idx/idxfile1.dbf
  7       Full 3975564489 06-DEC-15 /ora_data/datafile2.dbf
  8       Full 3975564489 06-DEC-15 /u01/app/oracle/oradata/codaprod/perfstat01.dbf
  9       Full 3975564489 06-DEC-15 /ora_data/datafile3.dbf
  10      Full 3975564489 06-DEC-15 /ora_idx/idxfile2.dbf
  11      Full 3975564489 06-DEC-15 /ora_data2/datafile4.dbf
  12      Full 3975564489 06-DEC-15 /ora_idx2/idxfile3.dbf
  13      Full 3975564489 06-DEC-15 /ora_idx2/idxfile4.dbf
  14      Full 3975564489 06-DEC-15 /u01/app/oracle/oradata/codaprod/undotbs02.dbf
  15      Full 3975564489 06-DEC-15 /ora_data2/datafile5.dbf
  16      Full 3975564489 06-DEC-15 /ora_idx3/idxfile6.dbf
  17      Full 3975564489 06-DEC-15 /ora_idx4/idxfile7.dbf
  18      Full 3975564489 06-DEC-15 /ora_data3/datafile6.dbf
  19      Full 3975564489 06-DEC-15 /ora_idx4/idxfile8.dbf
  20      Full 3975564489 06-DEC-15 /ora_idx5/idxfile9.dbf
  21      Full 3975564489 06-DEC-15 /ora_data3/datafile7.dbf
  22      Full 3975564489 06-DEC-15 /ora_data4/datafile8.dbf
  23      Full 3975564489 06-DEC-15 /ora_idx5/idxfile10.dbf
  24      Full 3975564489 06-DEC-15 /ora_data4/datafile9.dbf
  25      Full 3975564489 06-DEC-15 /ora_data5/datafile10.dbf
  26      Full 3975564489 06-DEC-15 /ora_data5/datafile11.dbf
  27      Full 3975564489 06-DEC-15 /ora_idx6/idxfile11.dbf
  28      Full 3975564489 06-DEC-15 /ora_idx6/idxfile12.dbf
  29      Full 3975564489 06-DEC-15 /ora_idx7/idxfile13.dbf
  30      Full 3975564489 06-DEC-15 /ora_idx7/idxfile14.dbf

BS Key  Type LV Size       Device Type Elapsed Time Completion Time
------- ---- -- ---------- ----------- ------------ ---------------
11231   Full    687.12G    DISK        01:51:10     08-DEC-15
        BP Key: 11231   Status: EXPIRED  Compressed: NO  Tag: TAG20151207T230124
        Piece Name: /ora_fra/CODAPROD/dbbackup/vkqo8li5_1_1
  List of Datafiles in backup set 11231
  File LV Type Ckp SCN    Ckp Time  Name
  ---- -- ---- ---------- --------- ----
  1       Full 3978968269 07-DEC-15 /u01/app/oracle/oradata/codaprod/system01.dbf
  2       Full 3978968269 07-DEC-15 /u01/app/oracle/oradata/codaprod/sysaux01.dbf
```

```
  3       Full 3978968269 07-DEC-15 /ora_idx3/idxfile5.dbf
  4       Full 3978968269 07-DEC-15 /u01/app/oracle/oradata/codaprod/users01.dbf
  5       Full 3978968269 07-DEC-15 /ora_data/datafile1.dbf
  6       Full 3978968269 07-DEC-15 /ora_idx/idxfile1.dbf
  7       Full 3978968269 07-DEC-15 /ora_data/datafile2.dbf
  8       Full 3978968269 07-DEC-15 /u01/app/oracle/oradata/codaprod/perfstat01.dbf
  9       Full 3978968269 07-DEC-15 /ora_data/datafile3.dbf
  10      Full 3978968269 07-DEC-15 /ora_idx/idxfile2.dbf
  11      Full 3978968269 07-DEC-15 /ora_data2/datafile4.dbf
  12      Full 3978968269 07-DEC-15 /ora_idx2/idxfile3.dbf
  13      Full 3978968269 07-DEC-15 /ora_idx2/idxfile4.dbf
  14      Full 3978968269 07-DEC-15 /u01/app/oracle/oradata/codaprod/undotbs02.dbf
  15      Full 3978968269 07-DEC-15 /ora_data2/datafile5.dbf
  16      Full 3978968269 07-DEC-15 /ora_idx3/idxfile6.dbf
  17      Full 3978968269 07-DEC-15 /ora_idx4/idxfile7.dbf
  18      Full 3978968269 07-DEC-15 /ora_data3/datafile6.dbf
  19      Full 3978968269 07-DEC-15 /ora_idx4/idxfile8.dbf
  20      Full 3978968269 07-DEC-15 /ora_idx5/idxfile9.dbf
  21      Full 3978968269 07-DEC-15 /ora_data3/datafile7.dbf
  22      Full 3978968269 07-DEC-15 /ora_data4/datafile8.dbf
  23      Full 3978968269 07-DEC-15 /ora_idx5/idxfile10.dbf
  24      Full 3978968269 07-DEC-15 /ora_data4/datafile9.dbf
  25      Full 3978968269 07-DEC-15 /ora_data5/datafile10.dbf
  26      Full 3978968269 07-DEC-15 /ora_data5/datafile11.dbf
  27      Full 3978968269 07-DEC-15 /ora_idx6/idxfile11.dbf
  28      Full 3978968269 07-DEC-15 /ora_idx6/idxfile12.dbf
  29      Full 3978968269 07-DEC-15 /ora_idx7/idxfile13.dbf
  30      Full 3978968269 07-DEC-15 /ora_idx7/idxfile14.dbf

BS Key  Type LV Size       Device Type Elapsed Time Completion Time
------- ---- -- ---------- ----------- ------------ ---------------
11237   Full    688.36G    DISK        01:43:58     09-DEC-15
        BP Key: 11237   Status: EXPIRED  Compressed: NO  Tag: TAG20151208T230124
        Piece Name: /ora_fra/CODAPROD/dbbackup/vqqob9u5_1_1
  List of Datafiles in backup set 11237
  File LV Type Ckp SCN    Ckp Time  Name
  ---- -- ---- ---------- --------- ----
  1       Full 3983947958 08-DEC-15 /u01/app/oracle/oradata/codaprod/system01.dbf
  2       Full 3983947958 08-DEC-15 /u01/app/oracle/oradata/codaprod/sysaux01.dbf
  3       Full 3983947958 08-DEC-15 /ora_idx3/idxfile5.dbf
  4       Full 3983947958 08-DEC-15 /u01/app/oracle/oradata/codaprod/users01.dbf
  5       Full 3983947958 08-DEC-15 /ora_data/datafile1.dbf
  6       Full 3983947958 08-DEC-15 /ora_idx/idxfile1.dbf
  7       Full 3983947958 08-DEC-15 /ora_data/datafile2.dbf
  8       Full 3983947958 08-DEC-15 /u01/app/oracle/oradata/codaprod/perfstat01.dbf
  9       Full 3983947958 08-DEC-15 /ora_data/datafile3.dbf
  10      Full 3983947958 08-DEC-15 /ora_idx/idxfile2.dbf
  11      Full 3983947958 08-DEC-15 /ora_data2/datafile4.dbf
  12      Full 3983947958 08-DEC-15 /ora_idx2/idxfile3.dbf
  13      Full 3983947958 08-DEC-15 /ora_idx2/idxfile4.dbf
  14      Full 3983947958 08-DEC-15 /u01/app/oracle/oradata/codaprod/undotbs02.dbf
  15      Full 3983947958 08-DEC-15 /ora_data2/datafile5.dbf
  16      Full 3983947958 08-DEC-15 /ora_idx3/idxfile6.dbf
  17      Full 3983947958 08-DEC-15 /ora_idx4/idxfile7.dbf
  18      Full 3983947958 08-DEC-15 /ora_data3/datafile6.dbf
  19      Full 3983947958 08-DEC-15 /ora_idx4/idxfile8.dbf
  20      Full 3983947958 08-DEC-15 /ora_idx5/idxfile9.dbf
  21      Full 3983947958 08-DEC-15 /ora_data3/datafile7.dbf
```

```
  22      Full 3983947958 08-DEC-15 /ora_data4/datafile8.dbf
  23      Full 3983947958 08-DEC-15 /ora_idx5/idxfile10.dbf
  24      Full 3983947958 08-DEC-15 /ora_data4/datafile9.dbf
  25      Full 3983947958 08-DEC-15 /ora_data5/datafile10.dbf
  26      Full 3983947958 08-DEC-15 /ora_data5/datafile11.dbf
  27      Full 3983947958 08-DEC-15 /ora_idx6/idxfile11.dbf
  28      Full 3983947958 08-DEC-15 /ora_idx6/idxfile12.dbf
  29      Full 3983947958 08-DEC-15 /ora_idx7/idxfile13.dbf
  30      Full 3983947958 08-DEC-15 /ora_idx7/idxfile14.dbf

BS Key  Type LV Size       Device Type Elapsed Time Completion Time
------- ---- -- ---------- ----------- ------------ ---------------
11244   Full    689.25G    DISK        01:50:22     10-DEC-15
        BP Key: 11244   Status: EXPIRED  Compressed: NO  Tag: TAG20151209T230125
        Piece Name: /ora_fra/CODAPROD/dbbackup/01qodua5_1_1
  List of Datafiles in backup set 11244
  File LV Type Ckp SCN    Ckp Time  Name
  ---- -- ---- ---------- --------- ----
  1       Full 3988919866 09-DEC-15 /u01/app/oracle/oradata/codaprod/system01.dbf
  2       Full 3988919866 09-DEC-15 /u01/app/oracle/oradata/codaprod/sysaux01.dbf
  3       Full 3988919866 09-DEC-15 /ora_idx3/idxfile5.dbf
  4       Full 3988919866 09-DEC-15 /u01/app/oracle/oradata/codaprod/users01.dbf
  5       Full 3988919866 09-DEC-15 /ora_data/datafile1.dbf
  6       Full 3988919866 09-DEC-15 /ora_idx/idxfile1.dbf
  7       Full 3988919866 09-DEC-15 /ora_data/datafile2.dbf
  8       Full 3988919866 09-DEC-15 /u01/app/oracle/oradata/codaprod/perfstat01.dbf
  9       Full 3988919866 09-DEC-15 /ora_data/datafile3.dbf
  10      Full 3988919866 09-DEC-15 /ora_idx/idxfile2.dbf
  11      Full 3988919866 09-DEC-15 /ora_data2/datafile4.dbf
  12      Full 3988919866 09-DEC-15 /ora_idx2/idxfile3.dbf
  13      Full 3988919866 09-DEC-15 /ora_idx2/idxfile4.dbf
  14      Full 3988919866 09-DEC-15 /u01/app/oracle/oradata/codaprod/undotbs02.dbf
  15      Full 3988919866 09-DEC-15 /ora_data2/datafile5.dbf
  16      Full 3988919866 09-DEC-15 /ora_idx3/idxfile6.dbf
  17      Full 3988919866 09-DEC-15 /ora_idx4/idxfile7.dbf
  18      Full 3988919866 09-DEC-15 /ora_data3/datafile6.dbf
  19      Full 3988919866 09-DEC-15 /ora_idx4/idxfile8.dbf
  20      Full 3988919866 09-DEC-15 /ora_idx5/idxfile9.dbf
  21      Full 3988919866 09-DEC-15 /ora_data3/datafile7.dbf
  22      Full 3988919866 09-DEC-15 /ora_data4/datafile8.dbf
  23      Full 3988919866 09-DEC-15 /ora_idx5/idxfile10.dbf
  24      Full 3988919866 09-DEC-15 /ora_data4/datafile9.dbf
  25      Full 3988919866 09-DEC-15 /ora_data5/datafile10.dbf
  26      Full 3988919866 09-DEC-15 /ora_data5/datafile11.dbf
  27      Full 3988919866 09-DEC-15 /ora_idx6/idxfile11.dbf
  28      Full 3988919866 09-DEC-15 /ora_idx6/idxfile12.dbf
  29      Full 3988919866 09-DEC-15 /ora_idx7/idxfile13.dbf
  30      Full 3988919866 09-DEC-15 /ora_idx7/idxfile14.dbf

BS Key  Type LV Size       Device Type Elapsed Time Completion Time
------- ---- -- ---------- ----------- ------------ ---------------
11251   Full    690.36G    DISK        01:47:14     11-DEC-15
        BP Key: 11251   Status: AVAILABLE  Compressed: NO  Tag: TAG20151210T230125
        Piece Name: /ora_fra/CODAPROD/dbbackup/08qogim6_1_1
  List of Datafiles in backup set 11251
  File LV Type Ckp SCN    Ckp Time  Name
  ---- -- ---- ---------- --------- ----
  1       Full 3991996165 10-DEC-15 /u01/app/oracle/oradata/codaprod/system01.dbf
```

```
2       Full 3991996165 10-DEC-15 /u01/app/oracle/oradata/codaprod/sysaux01.dbf
3       Full 3991996165 10-DEC-15 /ora_idx3/idxfile5.dbf
4       Full 3991996165 10-DEC-15 /u01/app/oracle/oradata/codaprod/users01.dbf
5       Full 3991996165 10-DEC-15 /ora_data/datafile1.dbf
6       Full 3991996165 10-DEC-15 /ora_idx/idxfile1.dbf
7       Full 3991996165 10-DEC-15 /ora_data/datafile2.dbf
8       Full 3991996165 10-DEC-15 /u01/app/oracle/oradata/codaprod/perfstat01.dbf
9       Full 3991996165 10-DEC-15 /ora_data/datafile3.dbf
10      Full 3991996165 10-DEC-15 /ora_idx/idxfile2.dbf
11      Full 3991996165 10-DEC-15 /ora_data2/datafile4.dbf
12      Full 3991996165 10-DEC-15 /ora_idx2/idxfile3.dbf
13      Full 3991996165 10-DEC-15 /ora_idx2/idxfile4.dbf
14      Full 3991996165 10-DEC-15 /u01/app/oracle/oradata/codaprod/undotbs02.dbf
15      Full 3991996165 10-DEC-15 /ora_data2/datafile5.dbf
16      Full 3991996165 10-DEC-15 /ora_idx3/idxfile6.dbf
17      Full 3991996165 10-DEC-15 /ora_idx4/idxfile7.dbf
18      Full 3991996165 10-DEC-15 /ora_data3/datafile6.dbf
19      Full 3991996165 10-DEC-15 /ora_idx4/idxfile8.dbf
20      Full 3991996165 10-DEC-15 /ora_idx5/idxfile9.dbf
21      Full 3991996165 10-DEC-15 /ora_data3/datafile7.dbf
22      Full 3991996165 10-DEC-15 /ora_data4/datafile8.dbf
23      Full 3991996165 10-DEC-15 /ora_idx5/idxfile10.dbf
24      Full 3991996165 10-DEC-15 /ora_data4/datafile9.dbf
25      Full 3991996165 10-DEC-15 /ora_data5/datafile10.dbf
26      Full 3991996165 10-DEC-15 /ora_data5/datafile11.dbf
27      Full 3991996165 10-DEC-15 /ora_idx6/idxfile11.dbf
28      Full 3991996165 10-DEC-15 /ora_idx6/idxfile12.dbf
29      Full 3991996165 10-DEC-15 /ora_idx7/idxfile13.dbf
30      Full 3991996165 10-DEC-15 /ora_idx7/idxfile14.dbf
```

crosscheck command queries the repository to find details of what whole backups have been made of the database, and then goes to the storage device(s) to see if the pieces do in fact exist. For pieces on disk, the disk directory is read and the file header validated; for pieces on tape, only the tape directory is read. Any pieces that no longer exist are flagged in the repository as EXPIRED.

```
RMAN> crosscheck backup;

   crosschecked backup piece: found to be 'EXPIRED'
   backup piece handle=/ora_fra/CODAPROD/dbbackup/04qoe4qu_1_1 RECID=11247
   STAMP=898044767
   crosschecked backup piece: found to be 'EXPIRED'
   backup piece handle=/ora_fra/CODAPROD/dbbackup/05qoe4sd_1_1 RECID=11248
   STAMP=898044814
   crosschecked backup piece: found to be 'EXPIRED'
   backup piece handle=/ora_fra/CODAPROD/dbbackup/06qoe4ts_1_1 RECID=11249
   STAMP=898044861
   crosschecked backup piece: found to be 'AVAILABLE'
   backup piece handle=/ora_fra/CODAPROD/autobackup/c-1057852613-20151210-01
   RECID=11250 STAMP=898044908
   crosschecked backup piece: found to be 'EXPIRED'
   backup piece handle=/ora_fra/CODAPROD/dbbackup/08qogim6_1_1 RECID=11251
   STAMP=898124488
   crosschecked backup piece: found to be 'AVAILABLE'
   backup piece handle=/ora_fra/CODAPROD/autobackup/c-1057852613-20151211-00
   RECID=11252 STAMP=898130924
   crosschecked backup piece: found to be 'AVAILABLE'
```

```
backup piece handle=/ora_fra/CODAPROD/dbbackup/0aqogovj_1_1 RECID=11253
STAMP=898130931
crosschecked backup piece: found to be 'AVAILABLE'
backup piece handle=/ora_fra/CODAPROD/dbbackup/0bqogp12_1_1 RECID=11254
STAMP=898130979
crosschecked backup piece: found to be 'AVAILABLE'
backup piece handle=/ora_fra/CODAPROD/dbbackup/0cqogp2i_1_1 RECID=11255
STAMP=898131027
crosschecked backup piece: found to be 'AVAILABLE'
backup piece handle=/ora_fra/CODAPROD/autobackup/c-1057852613-20151211-02
RECID=11256 STAMP=898150888
Crosschecked 785 objects

RMAN>delete expired backup;

RMAN>delete expired archivelog all;

RMAN> crosscheck backup;

using channel ORA_DISK_1
crosschecked backup piece: found to be 'AVAILABLE'
backup piece handle=/ora_fra/CODAPROD/autobackup/c-1057852613-20151208-00
RECID=11232 STAMP=897871964
crosschecked backup piece: found to be 'AVAILABLE'
backup piece handle=/ora_fra/CODAPROD/autobackup/c-1057852613-20151208-01
RECID=11236 STAMP=897872147
crosschecked backup piece: found to be 'AVAILABLE'
backup piece handle=/ora_fra/CODAPROD/autobackup/c-1057852613-20151209-00
RECID=11238 STAMP=897957932
crosschecked backup piece: found to be 'AVAILABLE'
backup piece handle=/ora_fra/CODAPROD/autobackup/c-1057852613-20151209-01
RECID=11243 STAMP=897958223
crosschecked backup piece: found to be 'AVAILABLE'
backup piece handle=/ora_fra/CODAPROD/autobackup/c-1057852613-20151210-00
RECID=11245 STAMP=898044713
crosschecked backup piece: found to be 'AVAILABLE'
backup piece handle=/ora_fra/CODAPROD/autobackup/c-1057852613-20151210-01
RECID=11250 STAMP=898044908
crosschecked backup piece: found to be 'AVAILABLE'
backup piece handle=/ora_fra/CODAPROD/autobackup/c-1057852613-20151211-00
RECID=11252 STAMP=898130924
crosschecked backup piece: found to be 'AVAILABLE'
backup piece handle=/ora_fra/CODAPROD/dbbackup/0aqogovj_1_1 RECID=11253
STAMP=898130931
crosschecked backup piece: found to be 'AVAILABLE'
backup piece handle=/ora_fra/CODAPROD/dbbackup/0bqogp12_1_1 RECID=11254
STAMP=898130979
crosschecked backup piece: found to be 'AVAILABLE'
backup piece handle=/ora_fra/CODAPROD/dbbackup/0cqogp2i_1_1 RECID=11255
STAMP=898131027
crosschecked backup piece: found to be 'AVAILABLE'
backup piece handle=/ora_fra/CODAPROD/autobackup/c-1057852613-20151211-02
RECID=11256 STAMP=898150888
Crosschecked 11 objects


RMAN> crosscheck archivelog all;
```

```
released channel: ORA_DISK_1
allocated channel: ORA_DISK_1
channel ORA_DISK_1: SID=199 device type=DISK
validation succeeded for archived log
archived log file name=/ora_fra/oradata/codaprod/archivelog/1_118974_828728559.arlog
RECID=198306 STAMP=898150674
validation succeeded for archived log
archived log file name=/ora_fra/oradata/codaprod/archivelog/1_118975_828728559.arlog
RECID=198305 STAMP=898150673
validation succeeded for archived log
archived log file name=/ora_fra/oradata/codaprod/archivelog/1_118976_828728559.arlog
RECID=198307 STAMP=898150692
validation succeeded for archived log
archived log file name=/ora_fra/oradata/codaprod/archivelog/1_118977_828728559.arlog
RECID=198308 STAMP=898150697
validation succeeded for archived log
archived log file name=/ora_fra/oradata/codaprod/archivelog/1_118978_828728559.arlog
RECID=198309 STAMP=898150704
validation succeeded for archived log
archived log file name=/ora_fra/oradata/codaprod/archivelog/1_118979_828728559.arlog
RECID=198310 STAMP=898150713
validation succeeded for archived log
archived log file name=/ora_fra/oradata/codaprod/archivelog/1_118980_828728559.arlog
RECID=198311 STAMP=898150720
validation succeeded for archived log
archived log file name=/ora_fra/oradata/codaprod/archivelog/1_118981_828728559.arlog
RECID=198312 STAMP=898150725
validation succeeded for archived log
archived log file name=/ora_fra/oradata/codaprod/archivelog/1_118982_828728559.arlog
RECID=198313 STAMP=898150731
validation succeeded for archived log
archived log file name=/ora_fra/oradata/codaprod/archivelog/1_118983_828728559.arlog
RECID=198314 STAMP=898150737
validation succeeded for archived log
archived log file name=/ora_fra/oradata/codaprod/archivelog/1_118984_828728559.arlog
RECID=198315 STAMP=898150743
validation succeeded for archived log
archived log file name=/ora_fra/oradata/codaprod/archivelog/1_118985_828728559.arlog
RECID=198316 STAMP=898150748
validation succeeded for archived log
archived log file name=/ora_fra/oradata/codaprod/archivelog/1_118986_828728559.arlog
RECID=198317 STAMP=898150752
validation succeeded for archived log
archived log file name=/ora_fra/oradata/codaprod/archivelog/1_118987_828728559.arlog
RECID=198318 STAMP=898150757
validation succeeded for archived log
archived log file name=/ora_fra/oradata/codaprod/archivelog/1_118988_828728559.arlog
RECID=198319 STAMP=898150760
validation succeeded for archived log
archived log file name=/ora_fra/oradata/codaprod/archivelog/1_118989_828728559.arlog
RECID=198320 STAMP=898150764
validation succeeded for archived log
archived log file name=/ora_fra/oradata/codaprod/archivelog/1_118990_828728559.arlog
RECID=198321 STAMP=898150768
validation succeeded for archived log
archived log file name=/ora_fra/oradata/codaprod/archivelog/1_118991_828728559.arlog
RECID=198322 STAMP=898150772
validation succeeded for archived log
```

```
archived log file name=/ora_fra/oradata/codaprod/archivelog/1_118992_828728559.arlog
RECID=198323 STAMP=898150776
validation succeeded for archived log
archived log file name=/ora_fra/oradata/codaprod/archivelog/1_118993_828728559.arlog
RECID=198324 STAMP=898150779
validation succeeded for archived log
archived log file name=/ora_fra/oradata/codaprod/archivelog/1_118994_828728559.arlog
RECID=198325 STAMP=898150782
validation succeeded for archived log
archived log file name=/ora_fra/oradata/codaprod/archivelog/1_118995_828728559.arlog
RECID=198326 STAMP=898150785
validation succeeded for archived log
archived log file name=/ora_fra/oradata/codaprod/archivelog/1_118996_828728559.arlog
RECID=198327 STAMP=898150788
validation succeeded for archived log
archived log file name=/ora_fra/oradata/codaprod/archivelog/1_118997_828728559.arlog
RECID=198328 STAMP=898150791
validation succeeded for archived log
archived log file name=/ora_fra/oradata/codaprod/archivelog/1_118998_828728559.arlog
RECID=198329 STAMP=898150793
validation succeeded for archived log
archived log file name=/ora_fra/oradata/codaprod/archivelog/1_118999_828728559.arlog
RECID=198330 STAMP=898150796
validation succeeded for archived log
archived log file name=/ora_fra/oradata/codaprod/archivelog/1_119000_828728559.arlog
RECID=198331 STAMP=898150798
validation succeeded for archived log
archived log file name=/ora_fra/oradata/codaprod/archivelog/1_119001_828728559.arlog
RECID=198332 STAMP=898150801
validation succeeded for archived log
archived log file name=/ora_fra/oradata/codaprod/archivelog/1_119002_828728559.arlog
RECID=198333 STAMP=898150804
validation succeeded for archived log
archived log file name=/ora_fra/oradata/codaprod/archivelog/1_119003_828728559.arlog
RECID=198334 STAMP=898150808
validation succeeded for archived log
archived log file name=/ora_fra/oradata/codaprod/archivelog/1_119004_828728559.arlog
RECID=198335 STAMP=898150813
validation succeeded for archived log
archived log file name=/ora_fra/oradata/codaprod/archivelog/1_119005_828728559.arlog
RECID=198336 STAMP=898150817
validation succeeded for archived log
archived log file name=/ora_fra/oradata/codaprod/archivelog/1_119006_828728559.arlog
RECID=198337 STAMP=898150822
validation succeeded for archived log
archived log file name=/ora_fra/oradata/codaprod/archivelog/1_119007_828728559.arlog
RECID=198338 STAMP=898150827
validation succeeded for archived log
archived log file name=/ora_fra/oradata/codaprod/archivelog/1_119008_828728559.arlog
RECID=198339 STAMP=898150831
validation succeeded for archived log
archived log file name=/ora_fra/oradata/codaprod/archivelog/1_119009_828728559.arlog
RECID=198340 STAMP=898150836
validation succeeded for archived log
archived log file name=/ora_fra/oradata/codaprod/archivelog/1_119010_828728559.arlog
RECID=198341 STAMP=898150840
validation succeeded for archived log
```

```
archived log file name=/ora_fra/oradata/codaprod/archivelog/1_119011_828728559.arlog
RECID=198342 STAMP=898150850
validation succeeded for archived log
archived log file name=/ora_fra/oradata/codaprod/archivelog/1_119012_828728559.arlog
RECID=198343 STAMP=898150855
validation succeeded for archived log
archived log file name=/ora_fra/oradata/codaprod/archivelog/1_119013_828728559.arlog
RECID=198344 STAMP=898150858
validation succeeded for archived log
archived log file name=/ora_fra/oradata/codaprod/archivelog/1_119014_828728559.arlog
RECID=198345 STAMP=898150862
validation succeeded for archived log
archived log file name=/ora_fra/oradata/codaprod/archivelog/1_119015_828728559.arlog
RECID=198346 STAMP=898150864
validation succeeded for archived log
archived log file name=/ora_fra/oradata/codaprod/archivelog/1_119016_828728559.arlog
RECID=198347 STAMP=898150865
validation succeeded for archived log
archived log file name=/ora_fra/oradata/codaprod/archivelog/1_1_898150868.arlog
RECID=198348 STAMP=898207220
validation succeeded for archived log
archived log file name=/ora_fra/oradata/codaprod/archivelog/1_2_898150868.arlog
RECID=198349 STAMP=898284205
validation succeeded for archived log
archived log file name=/ora_fra/oradata/codaprod/archivelog/1_3_898150868.arlog
RECID=198350 STAMP=898370644
Crosschecked 46 objects

RMAN> report obsolete;

RMAN> delete obsolete;


RMAN>

codarpt:oracle@/home/oracle$df -g
Filesystem    GB blocks      Free %Used    Iused %Iused Mounted on
/dev/hd4           2.00      1.74   14%    11828     3% /
/dev/hd2          10.00      3.21   68%    69627     9% /usr
/dev/hd9var        4.00      2.89   28%    12441     2% /var
/dev/hd3           4.00      2.26   44%     2491     1% /tmp
/dev/hd1           6.00      0.83   87%    35397    16% /home
/dev/hd11admin      1.00      1.00    1%        5     1% /admin
/proc                 -         -    -         -      -  /proc
/dev/hd10opt       4.00      2.23   45%    19853     4% /opt
/dev/livedump      0.25      0.25    1%        4     1% /var/adm/ras/livedump
/dev/codaadmlv      2.00      1.95    3%      101     1% /coda
/dev/u02lv        30.00     11.09   64%    39204     2% /u02
/dev/mon_fralv     10.00      9.92    1%       19     1% /monthly
/dev/mon_backuplv    800.00    134.12   84%        9     1% /mon_backup
/dev/mon_data1lv     60.50      0.25  100%        7     1% /mon_data1
/dev/mon_data2lv     60.50      0.25  100%        7     1% /mon_data2
/dev/mon_idx1lv     60.50      0.25  100%        7     1% /mon_idx1
/dev/mon_idx2lv     60.50      0.25  100%        7     1% /mon_idx2
/dev/mon_templv     16.50      2.66   84%       21     1% /mon_temp
/dev/u01lv        50.00     10.51   79%    38935     2% /u01
/dev/ora_fralv    750.00    241.24   68%     1992     1% /ora_fra
/dev/ora_data1lv     90.50      0.13  100%        7     1% /ora_data
```

```
/dev/ora_data2lv     60.50      0.25  100%        6     1% /ora_data2
/dev/ora_idx1lv     60.50      0.25  100%        6     1% /ora_idx
/dev/ora_idx2lv     60.50      0.25  100%        6     1% /ora_idx2
/dev/ora_idx3lv     60.50      0.25  100%        6     1% /ora_idx3
/dev/ora_templv     50.50     50.26    1%       27     1% /ora_temp
/dev/ora_backuplv      2.00      1.97    2%        7     1% /ora_backup
/dev/history_lv      0.12      0.12    2%       26     1% /var/adm/history
/dev/mon_idx3lv     60.50      0.25  100%        6     1% /mon_idx3
/dev/ora_idx4lv     60.50      0.25  100%        6     1% /ora_idx4
/dev/mon_data3lv     60.50      0.25  100%        6     1% /mon_data3
/dev/ora_data3lv     60.50      0.25  100%        6     1% /ora_data3
/dev/mon_idx4lv     60.50      0.25  100%        6     1% /mon_idx4
/dev/ora_idx5lv     60.50      0.25  100%        6     1% /ora_idx5
/dev/ora_data4lv     60.50      0.25  100%        6     1% /ora_data4
/dev/ora_data5lv     60.50      0.25  100%        6     1% /ora_data5
/dev/ora_idx6lv     60.50      0.25  100%        6     1% /ora_idx6
/dev/ora_idx7lv     60.50      0.25  100%        6     1% /ora_idx7
```

codarpt:oracle@/home/oracle$rman target /

```
Recovery Manager: Release 11.2.0.2.0 - Production on Mon Dec 14 16:02:43 2015

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connected to target database: CODAPROD (DBID=1057852613)
```

RMAN> delete backupset;

```
using target database control file instead of recovery catalog
allocated channel: ORA_DISK_1
channel ORA_DISK_1: SID=199 device type=DISK

List of Backup Pieces
BP Key  BS Key  Pc# Cp# Status      Device Type Piece Name
------- ------- --- --- ----------- ----------- ----------
11232   11232   1   1   AVAILABLE   DISK        /ora_fra/CODAPROD/autobackup/c-
1057852613-20151208-00
11236   11236   1   1   AVAILABLE   DISK        /ora_fra/CODAPROD/autobackup/c-
1057852613-20151208-01
11238   11238   1   1   AVAILABLE   DISK        /ora_fra/CODAPROD/autobackup/c-
1057852613-20151209-00
11243   11243   1   1   AVAILABLE   DISK        /ora_fra/CODAPROD/autobackup/c-
1057852613-20151209-01
11245   11245   1   1   AVAILABLE   DISK        /ora_fra/CODAPROD/autobackup/c-
1057852613-20151210-00
11250   11250   1   1   AVAILABLE   DISK        /ora_fra/CODAPROD/autobackup/c-
1057852613-20151210-01
11252   11252   1   1   AVAILABLE   DISK        /ora_fra/CODAPROD/autobackup/c-
1057852613-20151211-00
11253   11253   1   1   AVAILABLE   DISK
/ora_fra/CODAPROD/dbbackup/0aqogovj_1_1
11254   11254   1   1   AVAILABLE   DISK
/ora_fra/CODAPROD/dbbackup/0bqogp12_1_1
11255   11255   1   1   AVAILABLE   DISK
/ora_fra/CODAPROD/dbbackup/0cqogp2i_1_1
11256   11256   1   1   AVAILABLE   DISK        /ora_fra/CODAPROD/autobackup/c-
1057852613-20151211-02
```

```
Do you really want to delete the above objects (enter YES or NO)? yes
deleted backup piece
backup piece handle=/ora_fra/CODAPROD/autobackup/c-1057852613-20151208-00
RECID=11232 STAMP=897871964
deleted backup piece
backup piece handle=/ora_fra/CODAPROD/autobackup/c-1057852613-20151208-01
RECID=11236 STAMP=897872147
deleted backup piece
backup piece handle=/ora_fra/CODAPROD/autobackup/c-1057852613-20151209-00
RECID=11238 STAMP=897957932
deleted backup piece
backup piece handle=/ora_fra/CODAPROD/autobackup/c-1057852613-20151209-01
RECID=11243 STAMP=897958223
deleted backup piece
backup piece handle=/ora_fra/CODAPROD/autobackup/c-1057852613-20151210-00
RECID=11245 STAMP=898044713
deleted backup piece
backup piece handle=/ora_fra/CODAPROD/autobackup/c-1057852613-20151210-01
RECID=11250 STAMP=898044908
deleted backup piece
backup piece handle=/ora_fra/CODAPROD/autobackup/c-1057852613-20151211-00
RECID=11252 STAMP=898130924
deleted backup piece
backup piece handle=/ora_fra/CODAPROD/dbbackup/0aqogovj_1_1 RECID=11253
STAMP=898130931
deleted backup piece
backup piece handle=/ora_fra/CODAPROD/dbbackup/0bqogp12_1_1 RECID=11254
STAMP=898130979
deleted backup piece
backup piece handle=/ora_fra/CODAPROD/dbbackup/0cqogp2i_1_1 RECID=11255
STAMP=898131027
deleted backup piece
backup piece handle=/ora_fra/CODAPROD/autobackup/c-1057852613-20151211-02
RECID=11256 STAMP=898150888
Deleted 11 objects
```

RMAN> delete copy;

```
released channel: ORA_DISK_1
allocated channel: ORA_DISK_1
channel ORA_DISK_1: SID=199 device type=DISK
specification does not match any datafile copy in the repository
specification does not match any control file copy in the repository
List of Archived Log Copies for database with db_unique_name CODAPROD
=====================================================================

Key     Thrd Seq     S Low Time
------- ---- ------- - ---------
198306  1    118974  A 10-DEC-15
        Name: /ora_fra/oradata/codaprod/archivelog/1_118974_828728559.arlog

198305  1    118975  A 11-DEC-15
        Name: /ora_fra/oradata/codaprod/archivelog/1_118975_828728559.arlog

198307  1    118976  A 11-DEC-15
        Name: /ora_fra/oradata/codaprod/archivelog/1_118976_828728559.arlog
```

```
198308  1    118977  A 11-DEC-15
        Name: /ora_fra/oradata/codaprod/archivelog/1_118977_828728559.arlog

198309  1    118978  A 11-DEC-15
        Name: /ora_fra/oradata/codaprod/archivelog/1_118978_828728559.arlog

198310  1    118979  A 11-DEC-15
        Name: /ora_fra/oradata/codaprod/archivelog/1_118979_828728559.arlog

198311  1    118980  A 11-DEC-15
        Name: /ora_fra/oradata/codaprod/archivelog/1_118980_828728559.arlog

198312  1    118981  A 11-DEC-15
        Name: /ora_fra/oradata/codaprod/archivelog/1_118981_828728559.arlog

198313  1    118982  A 11-DEC-15
        Name: /ora_fra/oradata/codaprod/archivelog/1_118982_828728559.arlog

198314  1    118983  A 11-DEC-15
        Name: /ora_fra/oradata/codaprod/archivelog/1_118983_828728559.arlog

198315  1    118984  A 11-DEC-15
        Name: /ora_fra/oradata/codaprod/archivelog/1_118984_828728559.arlog

198316  1    118985  A 11-DEC-15
        Name: /ora_fra/oradata/codaprod/archivelog/1_118985_828728559.arlog

198317  1    118986  A 11-DEC-15
        Name: /ora_fra/oradata/codaprod/archivelog/1_118986_828728559.arlog

198318  1    118987  A 11-DEC-15
        Name: /ora_fra/oradata/codaprod/archivelog/1_118987_828728559.arlog

198319  1    118988  A 11-DEC-15
        Name: /ora_fra/oradata/codaprod/archivelog/1_118988_828728559.arlog

198320  1    118989  A 11-DEC-15
        Name: /ora_fra/oradata/codaprod/archivelog/1_118989_828728559.arlog

198321  1    118990  A 11-DEC-15
        Name: /ora_fra/oradata/codaprod/archivelog/1_118990_828728559.arlog

198322  1    118991  A 11-DEC-15
        Name: /ora_fra/oradata/codaprod/archivelog/1_118991_828728559.arlog

198323  1    118992  A 11-DEC-15
        Name: /ora_fra/oradata/codaprod/archivelog/1_118992_828728559.arlog

198324  1    118993  A 11-DEC-15
        Name: /ora_fra/oradata/codaprod/archivelog/1_118993_828728559.arlog

198325  1    118994  A 11-DEC-15
        Name: /ora_fra/oradata/codaprod/archivelog/1_118994_828728559.arlog

198326  1    118995  A 11-DEC-15
        Name: /ora_fra/oradata/codaprod/archivelog/1_118995_828728559.arlog
```

198327 1   118996 A 11-DEC-15
        Name: /ora_fra/oradata/codaprod/archivelog/1_118996_828728559.arlog

198328 1   118997 A 11-DEC-15
        Name: /ora_fra/oradata/codaprod/archivelog/1_118997_828728559.arlog

198329 1   118998 A 11-DEC-15
        Name: /ora_fra/oradata/codaprod/archivelog/1_118998_828728559.arlog

198330 1   118999 A 11-DEC-15
        Name: /ora_fra/oradata/codaprod/archivelog/1_118999_828728559.arlog

198331 1   119000 A 11-DEC-15
        Name: /ora_fra/oradata/codaprod/archivelog/1_119000_828728559.arlog

198332 1   119001 A 11-DEC-15
        Name: /ora_fra/oradata/codaprod/archivelog/1_119001_828728559.arlog

198333 1   119002 A 11-DEC-15
        Name: /ora_fra/oradata/codaprod/archivelog/1_119002_828728559.arlog

198334 1   119003 A 11-DEC-15
        Name: /ora_fra/oradata/codaprod/archivelog/1_119003_828728559.arlog

198335 1   119004 A 11-DEC-15
        Name: /ora_fra/oradata/codaprod/archivelog/1_119004_828728559.arlog

198336 1   119005 A 11-DEC-15
        Name: /ora_fra/oradata/codaprod/archivelog/1_119005_828728559.arlog

198337 1   119006 A 11-DEC-15
        Name: /ora_fra/oradata/codaprod/archivelog/1_119006_828728559.arlog

198338 1   119007 A 11-DEC-15
        Name: /ora_fra/oradata/codaprod/archivelog/1_119007_828728559.arlog

198339 1   119008 A 11-DEC-15
        Name: /ora_fra/oradata/codaprod/archivelog/1_119008_828728559.arlog

198340 1   119009 A 11-DEC-15
        Name: /ora_fra/oradata/codaprod/archivelog/1_119009_828728559.arlog

198341 1   119010 A 11-DEC-15
        Name: /ora_fra/oradata/codaprod/archivelog/1_119010_828728559.arlog

198342 1   119011 A 11-DEC-15
        Name: /ora_fra/oradata/codaprod/archivelog/1_119011_828728559.arlog

198343 1   119012 A 11-DEC-15
        Name: /ora_fra/oradata/codaprod/archivelog/1_119012_828728559.arlog

198344 1   119013 A 11-DEC-15
        Name: /ora_fra/oradata/codaprod/archivelog/1_119013_828728559.arlog

198345 1   119014 A 11-DEC-15
        Name: /ora_fra/oradata/codaprod/archivelog/1_119014_828728559.arlog

198346 1   119015 A 11-DEC-15

```
        Name: /ora_fra/oradata/codaprod/archivelog/1_119015_828728559.arlog

198347  1    119016  A 11-DEC-15
        Name: /ora_fra/oradata/codaprod/archivelog/1_119016_828728559.arlog

198348  1    1       A 11-DEC-15
        Name: /ora_fra/oradata/codaprod/archivelog/1_1_898150868.arlog

198349  1    2       A 11-DEC-15
        Name: /ora_fra/oradata/codaprod/archivelog/1_2_898150868.arlog

198350  1    3       A 12-DEC-15
        Name: /ora_fra/oradata/codaprod/archivelog/1_3_898150868.arlog


Do you really want to delete the above objects (enter YES or NO)? yes
deleted archived log
archived log file name=/ora_fra/oradata/codaprod/archivelog/1_118974_828728559.arlog
RECID=198306 STAMP=898150674
deleted archived log
archived log file name=/ora_fra/oradata/codaprod/archivelog/1_118975_828728559.arlog
RECID=198305 STAMP=898150673
deleted archived log
archived log file name=/ora_fra/oradata/codaprod/archivelog/1_118976_828728559.arlog
RECID=198307 STAMP=898150692
deleted archived log
archived log file name=/ora_fra/oradata/codaprod/archivelog/1_118977_828728559.arlog
RECID=198308 STAMP=898150697
deleted archived log
archived log file name=/ora_fra/oradata/codaprod/archivelog/1_118978_828728559.arlog
RECID=198309 STAMP=898150704
deleted archived log
archived log file name=/ora_fra/oradata/codaprod/archivelog/1_118979_828728559.arlog
RECID=198310 STAMP=898150713
deleted archived log
archived log file name=/ora_fra/oradata/codaprod/archivelog/1_118980_828728559.arlog
RECID=198311 STAMP=898150720
deleted archived log
archived log file name=/ora_fra/oradata/codaprod/archivelog/1_118981_828728559.arlog
RECID=198312 STAMP=898150725
deleted archived log
archived log file name=/ora_fra/oradata/codaprod/archivelog/1_118982_828728559.arlog
RECID=198313 STAMP=898150731
deleted archived log
archived log file name=/ora_fra/oradata/codaprod/archivelog/1_118983_828728559.arlog
RECID=198314 STAMP=898150737
deleted archived log
archived log file name=/ora_fra/oradata/codaprod/archivelog/1_118984_828728559.arlog
RECID=198315 STAMP=898150743
deleted archived log
archived log file name=/ora_fra/oradata/codaprod/archivelog/1_118985_828728559.arlog
RECID=198316 STAMP=898150748
deleted archived log
archived log file name=/ora_fra/oradata/codaprod/archivelog/1_118986_828728559.arlog
RECID=198317 STAMP=898150752
deleted archived log
archived log file name=/ora_fra/oradata/codaprod/archivelog/1_118987_828728559.arlog
RECID=198318 STAMP=898150757
```

```
deleted archived log
archived log file name=/ora_fra/oradata/codaprod/archivelog/1_118988_828728559.arlog
RECID=198319 STAMP=898150760
deleted archived log
archived log file name=/ora_fra/oradata/codaprod/archivelog/1_118989_828728559.arlog
RECID=198320 STAMP=898150764
deleted archived log
archived log file name=/ora_fra/oradata/codaprod/archivelog/1_118990_828728559.arlog
RECID=198321 STAMP=898150768
deleted archived log
archived log file name=/ora_fra/oradata/codaprod/archivelog/1_118991_828728559.arlog
RECID=198322 STAMP=898150772
deleted archived log
archived log file name=/ora_fra/oradata/codaprod/archivelog/1_118992_828728559.arlog
RECID=198323 STAMP=898150776
deleted archived log
archived log file name=/ora_fra/oradata/codaprod/archivelog/1_118993_828728559.arlog
RECID=198324 STAMP=898150779
deleted archived log
archived log file name=/ora_fra/oradata/codaprod/archivelog/1_118994_828728559.arlog
RECID=198325 STAMP=898150782
deleted archived log
archived log file name=/ora_fra/oradata/codaprod/archivelog/1_118995_828728559.arlog
RECID=198326 STAMP=898150785
deleted archived log
archived log file name=/ora_fra/oradata/codaprod/archivelog/1_118996_828728559.arlog
RECID=198327 STAMP=898150788
deleted archived log
archived log file name=/ora_fra/oradata/codaprod/archivelog/1_118997_828728559.arlog
RECID=198328 STAMP=898150791
deleted archived log
archived log file name=/ora_fra/oradata/codaprod/archivelog/1_118998_828728559.arlog
RECID=198329 STAMP=898150793
deleted archived log
archived log file name=/ora_fra/oradata/codaprod/archivelog/1_118999_828728559.arlog
RECID=198330 STAMP=898150796
deleted archived log
archived log file name=/ora_fra/oradata/codaprod/archivelog/1_119000_828728559.arlog
RECID=198331 STAMP=898150798
deleted archived log
archived log file name=/ora_fra/oradata/codaprod/archivelog/1_119001_828728559.arlog
RECID=198332 STAMP=898150801
deleted archived log
archived log file name=/ora_fra/oradata/codaprod/archivelog/1_119002_828728559.arlog
RECID=198333 STAMP=898150804
deleted archived log
archived log file name=/ora_fra/oradata/codaprod/archivelog/1_119003_828728559.arlog
RECID=198334 STAMP=898150808
deleted archived log
archived log file name=/ora_fra/oradata/codaprod/archivelog/1_119004_828728559.arlog
RECID=198335 STAMP=898150813
deleted archived log
archived log file name=/ora_fra/oradata/codaprod/archivelog/1_119005_828728559.arlog
RECID=198336 STAMP=898150817
deleted archived log
archived log file name=/ora_fra/oradata/codaprod/archivelog/1_119006_828728559.arlog
RECID=198337 STAMP=898150822
deleted archived log
```

```
archived log file name=/ora_fra/oradata/codaprod/archivelog/1_119007_828728559.arlog
RECID=198338 STAMP=898150827
deleted archived log
archived log file name=/ora_fra/oradata/codaprod/archivelog/1_119008_828728559.arlog
RECID=198339 STAMP=898150831
deleted archived log
archived log file name=/ora_fra/oradata/codaprod/archivelog/1_119009_828728559.arlog
RECID=198340 STAMP=898150836
deleted archived log
archived log file name=/ora_fra/oradata/codaprod/archivelog/1_119010_828728559.arlog
RECID=198341 STAMP=898150840
deleted archived log
archived log file name=/ora_fra/oradata/codaprod/archivelog/1_119011_828728559.arlog
RECID=198342 STAMP=898150850
deleted archived log
archived log file name=/ora_fra/oradata/codaprod/archivelog/1_119012_828728559.arlog
RECID=198343 STAMP=898150855
deleted archived log
archived log file name=/ora_fra/oradata/codaprod/archivelog/1_119013_828728559.arlog
RECID=198344 STAMP=898150858
deleted archived log
archived log file name=/ora_fra/oradata/codaprod/archivelog/1_119014_828728559.arlog
RECID=198345 STAMP=898150862
deleted archived log
archived log file name=/ora_fra/oradata/codaprod/archivelog/1_119015_828728559.arlog
RECID=198346 STAMP=898150864
deleted archived log
archived log file name=/ora_fra/oradata/codaprod/archivelog/1_119016_828728559.arlog
RECID=198347 STAMP=898150865
deleted archived log
archived log file name=/ora_fra/oradata/codaprod/archivelog/1_1_898150868.arlog
RECID=198348 STAMP=898207220
deleted archived log
archived log file name=/ora_fra/oradata/codaprod/archivelog/1_2_898150868.arlog
RECID=198349 STAMP=898284205
deleted archived log
archived log file name=/ora_fra/oradata/codaprod/archivelog/1_3_898150868.arlog
RECID=198350 STAMP=898370644
Deleted 46 objects


$ sudo su - oracle
codarpt:oracle@/home/oracle$. ./daily.env
codarpt:oracle@/home/oracle$lsnrctl status

LSNRCTL for IBM/AIX RISC System/6000: Version 11.2.0.2.0 - Production on 23-DEC-2015
08:51:09

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Connecting to (DESCRIPTION=(ADDRESS=(PROTOCOL=TCP)(HOST=codarptapp)(PORT=1521)))
STATUS of the LISTENER
------------------------
Alias                     LISTENER
Version                   TNSLSNR for IBM/AIX RISC System/6000: Version 11.2.0.2.0 -
Production
Start Date                12-OCT-2013 13:05:26
Uptime                    304 days 18 hr. 18 min. 30 sec
```

```
Trace Level               off
Security                  ON: Local OS Authentication
SNMP                      ON
Listener Parameter File
/u01/app/oracle/product/11.2.0/dbhome_1/network/admin/listener.ora
Listener Log File
/u01/app/oracle/diag/tnslsnr/codarpt/listener/alert/log.xml
Listening Endpoints Summary...
  (DESCRIPTION=(ADDRESS=(PROTOCOL=tcp)(HOST=10.253.133.145)(PORT=1521)))
  (DESCRIPTION=(ADDRESS=(PROTOCOL=ipc)(KEY=EXTPROC1521)))
Services Summary...
Service "codaprod.cweb.com" has 1 instance(s).
  Instance "codaprod", status READY, has 1 handler(s) for this service...
The command completed successfully


codarpt:oracle@/home/oracle$sqlplus / as sysdba

SQL*Plus: Release 11.2.0.2.0 Production on Wed Dec 23 08:54:31 2015

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Connected to:
Oracle Database 11g Release 11.2.0.2.0 - 64bit Production

SQL> desc v$instance
 Name                                      Null?    Type
 ----------------------------------------- -------- ----------------------------
 INSTANCE_NUMBER                                    NUMBER
 INSTANCE_NAME                                      VARCHAR2(16)
 HOST_NAME                                          VARCHAR2(64)
 VERSION                                            VARCHAR2(17)
 STARTUP_TIME                                       DATE
 STATUS                                             VARCHAR2(12)
 PARALLEL                                           VARCHAR2(3)
 THREAD#                                            NUMBER
 ARCHIVER                                           VARCHAR2(7)
 LOG_SWITCH_WAIT                                    VARCHAR2(15)
 LOGINS                                             VARCHAR2(10)
 SHUTDOWN_PENDING                                   VARCHAR2(3)
 DATABASE_STATUS                                    VARCHAR2(17)
 INSTANCE_ROLE                                      VARCHAR2(18)
 ACTIVE_STATE                                       VARCHAR2(9)
 BLOCKED                                            VARCHAR2(3)

SQL> select status from v$instance;

STATUS
------------
MOUNTED

SQL> quit
Disconnected from Oracle Database 11g Release 11.2.0.2.0 - 64bit Production
codarpt:oracle@/home/oracle$rman target /

Recovery Manager: Release 11.2.0.2.0 - Production on Wed Dec 23 08:55:14 2015
```

```
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   connected to target database: CODAPROD (DBID=1057852613, not open)

RMAN> list failure;

   using target database control file instead of recovery catalog
   List of Database Failures
   =========================

   Failure ID Priority Status    Time Detected Summary
   ---------- -------- --------- ------------- -------
   184630     CRITICAL OPEN      23-DEC-15     System datafile 1:
   '/u01/app/oracle/oradata/codaprod/system01.dbf' needs media recovery
   184627     CRITICAL OPEN      23-DEC-15     Control file needs media recovery
   46         HIGH     OPEN      23-DEC-15     One or more non-system datafiles need media
   recovery

codarpt:oracle@/home/oracle/report$more restore.out

   Recovery Manager: Release 11.2.0.2.0 - Production on Wed Dec 23 05:01:00 2015

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   RMAN> connect target;
   2> shutdown immediate;
   3>
   4> connect target;
   5> set DBID=1057852613;
   6>
   7> startup nomount;
   8>
   9> RUN
   10> {
   11>  SET CONTROLFILE AUTOBACKUP FORMAT FOR DEVICE TYPE DISK TO
   '/ora_fra/CODAPROD/autobackup/%F';
   12>  RESTORE CONTROLFILE FROM AUTOBACKUP;
   13> }
   14>
   15> alter database mount;
   16>
   17> RUN {
   18>  RESTORE DATABASE;
   19>  RECOVER DATABASE;
   20>  }
   21>
   22>
   23>
   connected to target database: CODAPROD (DBID=1057852613)

   using target database control file instead of recovery catalog
   database closed
   database dismounted
   Oracle instance shut down

   connected to target database (not started)

   executing command: SET DBID
```

```
Oracle instance started

Total System Global Area   25654751232 bytes

Fixed Size                     2231608 bytes
Variable Size               9999221448 bytes
Database Buffers           15636365312 bytes
Redo Buffers                  16932864 bytes

executing command: SET CONTROLFILE AUTOBACKUP FORMAT

Starting restore at Dec 23 2015 05:01:14
allocated channel: ORA_DISK_1
channel ORA_DISK_1: SID=488 device type=DISK

recovery area destination: /ora_fra
database name (or database unique name) used for search: CODAPROD
channel ORA_DISK_1: no AUTOBACKUPS found in the recovery area
channel ORA_DISK_1: looking for AUTOBACKUP on day: 20151223
channel ORA_DISK_1: AUTOBACKUP found: /ora_fra/CODAPROD/autobackup/c-1057852613-
20151223-01
channel ORA_DISK_1: restoring control file from AUTOBACKUP
/ora_fra/CODAPROD/autobackup/c-1057852613-20151223-01
channel ORA_DISK_1: control file restore from AUTOBACKUP complete
output file name=/ora_backup/controlfile/control01.ctl
output file name=/ora_fra/oradata/codaprod/controlfile/control02.ctl
Finished restore at Dec 23 2015 05:01:16

database mounted
released channel: ORA_DISK_1

Starting restore at Dec 23 2015 05:01:21
Starting implicit crosscheck backup at Dec 23 2015 05:01:21
allocated channel: ORA_DISK_1
channel ORA_DISK_1: SID=488 device type=DISK
Crosschecked 784 objects
Finished implicit crosscheck backup at Dec 23 2015 05:01:51

Starting implicit crosscheck copy at Dec 23 2015 05:01:51
using channel ORA_DISK_1
Finished implicit crosscheck copy at Dec 23 2015 05:01:51

searching for all files in the recovery area
cataloging files...
cataloging done

List of Cataloged Files
=======================
File Name: /ora_fra/CODAPROD/autobackup/c-1057852613-20151223-01

using channel ORA_DISK_1

RMAN-00571: ===========================================================
RMAN-00569: =============== ERROR MESSAGE STACK FOLLOWS ===============
RMAN-00571: ===========================================================
RMAN-03002: failure of restore command at 12/23/2015 05:01:56
RMAN-06026: some targets not found - aborting restore
```

```
RMAN-06023: no backup or copy of datafile 4 found to restore
RMAN-06023: no backup or copy of datafile 2 found to restore
RMAN-06023: no backup or copy of datafile 1 found to restore



$ vi cf.sql
"cf.sql" 47 lines, 1796 characters
CREATE CONTROLFILE DATABASE "CODAPROD" RESETLOGS ARCHIVELOG
LOGFILE
GROUP 1 '/ora_fra/oradata/codaprod/redolog/redo1.log' SIZE 2000M,
GROUP 2 '/ora_fra/oradata/codaprod/redolog/redo2.log' SIZE 2000M,
GROUP 3 '/ora_fra/oradata/codaprod/redolog/redo3.log' SIZE 2000M,
GROUP 4 '/ora_fra/oradata/codaprod/redolog/redo4.log' SIZE 2000M,
GROUP 5 '/ora_fra/oradata/codaprod/redolog/redo5.log' SIZE 2000M,
GROUP 6 '/ora_fra/oradata/codaprod/redolog/redo6.log' SIZE 2000M,
GROUP 7 '/ora_fra/oradata/codaprod/redolog/redo7.log' SIZE 2000M,
GROUP 8 '/ora_fra/oradata/codaprod/redolog/redo8.log' SIZE 2000M,
GROUP 9 '/ora_fra/oradata/codaprod/redolog/redo9.log' SIZE 2000M,
GROUP 10 '/ora_fra/oradata/codaprod/redolog/redo10.log' SIZE 2000M,
GROUP 11 '/ora_fra/oradata/codaprod/redolog/redo11.log' SIZE 2000M,
GROUP 12 '/ora_fra/oradata/codaprod/redolog/redo12.log' SIZE 2000M
DATAFILE
'/u01/app/oracle/oradata/codaprod/system01.dbf',
'/u01/app/oracle/oradata/codaprod/sysaux01.dbf',
'/ora_idx3/idxfile5.dbf',
'/u01/app/oracle/oradata/codaprod/users01.dbf',
'/ora_data/datafile1.dbf',
'/ora_idx/idxfile1.dbf',
'/ora_data/datafile2.dbf',
'/u01/app/oracle/oradata/codaprod/perfstat01.dbf',
'/ora_data/datafile3.dbf',
'/ora_idx/idxfile2.dbf',
'/ora_data2/datafile4.dbf',
'/ora_idx2/idxfile3.dbf',
'/ora_idx2/idxfile4.dbf',
'/u01/app/oracle/oradata/codaprod/undotbs02.dbf',
'/ora_data2/datafile5.dbf',
'/ora_idx3/idxfile6.dbf',
'/ora_idx4/idxfile7.dbf',
'/ora_data3/datafile6.dbf',
'/ora_idx4/idxfile8.dbf',
'/ora_idx5/idxfile9.dbf',
'/ora_data3/datafile7.dbf',
'/ora_data4/datafile8.dbf',
'/ora_idx5/idxfile10.dbf',
'/ora_data4/datafile9.dbf',
'/ora_data5/datafile10.dbf',
'/ora_data5/datafile11.dbf',
'/ora_idx6/idxfile11.dbf',
'/ora_idx6/idxfile12.dbf',
'/ora_idx7/idxfile13.dbf',
'/ora_idx7/idxfile14.dbf'
;
"cf.sql" 47 lines, 1797 characters
$ sudo su - oracle
codarpt:oracle@/home/oracle$. ./daily.env
codarpt:oracle@/home/oracle$sqlplus / as sysdba
```

```
SQL*Plus: Release 11.2.0.2.0 Production on Wed Dec 23 17:04:24 2015

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Connected to:
Oracle Database 11g Release 11.2.0.2.0 - 64bit Production

SQL> start /home/lchen/cf.sql
CREATE CONTROLFILE DATABASE "CODAPROD" RESETLOGS ARCHIVELOG
*
ERROR at line 1:
ORA-01503: CREATE CONTROLFILE failed
ORA-00200: control file could not be created
ORA-00202: control file: '/ora_backup/controlfile/control01.ctl'
ORA-27038: created file already exists
Additional information: 1


SQL> quit
Disconnected from Oracle Database 11g Release 11.2.0.2.0 - 64bit Production
codarpt:oracle@/home/oracle$up/controlfile/control01.ctl.bkup                <
codarpt:oracle@/home/oracle$sqlplus / as sysdba

SQL*Plus: Release 11.2.0.2.0 Production on Wed Dec 23 17:05:13 2015

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Connected to:
Oracle Database 11g Release 11.2.0.2.0 - 64bit Production

SQL> start /home/lchen/cf.sql
CREATE CONTROLFILE DATABASE "CODAPROD" RESETLOGS ARCHIVELOG
*
ERROR at line 1:
ORA-01503: CREATE CONTROLFILE failed
ORA-00200: control file could not be created
ORA-00202: control file: '/ora_fra/oradata/codaprod/controlfile/control02.ctl'
ORA-27038: created file already exists
Additional information: 1


SQL> host mv /ora_fra/oradata/codaprod/controlfile/control02.ctl
/ora_fra/oradata/codaprod/controlfile/control02.ctl.bkup

SQL> start /home/lchen/cf.sql
CREATE CONTROLFILE DATABASE "CODAPROD" RESETLOGS ARCHIVELOG
*
ERROR at line 1:
ORA-01503: CREATE CONTROLFILE failed
ORA-00200: control file could not be created
ORA-00202: control file: '/ora_backup/controlfile/control01.ctl'
ORA-27038: created file already exists
Additional information: 1
```

```
SQL> host /ora_backup/controlfile/control01.ctl
/ora_backup/controlfile/control01.ctl.bkup
/usr/bin/ksh: /ora_backup/controlfile/control01.ctl: cannot execute

SQL> host mv /ora_backup/controlfile/control01.ctl
/ora_backup/controlfile/control01.ctl.bkup

SQL>  host mv /ora_fra/oradata/codaprod/controlfile/control02.ctl
/ora_fra/oradata/codaprod/controlfile/control02.ctl.bkup
mv: cannot rename /ora_fra/oradata/codaprod/controlfile/control02.ctl to
/ora_fra/oradata/codaprod/controlfile/control02.ctl.bkup:
No such file or directory

SQL> start /home/lchen/cf.sql

Control file created.

SQL> alter database mount;
alter database mount
*
ERROR at line 1:
ORA-01100: database already mounted


SQL> alter database open resetlog;
alter database open resetlog
                    *
ERROR at line 1:
ORA-02288: invalid OPEN mode


SQL> alter database open resetlogs;

Database altered.

SQL> select status from v$instance;

STATUS
------------
OPEN

SQL> ALTER DATABASE BACKUP CONTROLFILE TO TRACE;

This command writes a SQL script to a trace file where it can be captured and edited to
reproduce the control file. View the alert log to determine the name and location of the
trace file

Oracle will write the alert.log file to the directory as specified by the
ACKGROUND_DUMP_DEST parameter. If this parameter is not set, the alert.log will be
created in the ORACLE_HOME/rdbms/trace directory


Oracle Database 11g Release 11.2.0.2.0 - 64bit Production
ORACLE_HOME = /u01/app/oracle/product/11.2.0/dbhome_1
System name:    AIX
Node name:      codarpt
Release:        1
Version:        6
```

```
Machine:        00F86F624C00
Instance name: codaprod
Redo thread mounted by this instance: 1
Oracle process number: 19
Unix process pid: 12255432, image: oracle@codarpt (TNS V1-V3)


*** 2015-12-24 09:28:04.663
*** SESSION ID:(292.31) 2015-12-24 09:28:04.663
*** CLIENT ID:() 2015-12-24 09:28:04.663
*** SERVICE NAME:() 2015-12-24 09:28:04.663
*** MODULE NAME:(sqlplus@codarpt (TNS V1-V3)) 2015-12-24 09:28:04.663
*** ACTION NAME:() 2015-12-24 09:28:04.663

-- The following are current System-scope REDO Log Archival related
-- parameters and can be included in the database initialization file.
--
-- LOG_ARCHIVE_DEST=''
-- LOG_ARCHIVE_DUPLEX_DEST=''
--
-- LOG_ARCHIVE_FORMAT=%t_%s_%r.arlog
--
-- DB_UNIQUE_NAME="codaprod"
--
-- LOG_ARCHIVE_CONFIG='SEND, RECEIVE, NODG_CONFIG'
-- LOG_ARCHIVE_MAX_PROCESSES=4
-- STANDBY_FILE_MANAGEMENT=MANUAL
-- STANDBY_ARCHIVE_DEST=?/dbs/arch
-- FAL_CLIENT=''
-- FAL_SERVER=''
--
-- LOG_ARCHIVE_DEST_1='LOCATION=/ora_fra/oradata/codaprod/archivelog'
-- LOG_ARCHIVE_DEST_1='OPTIONAL REOPEN=300 NODELAY'
-- LOG_ARCHIVE_DEST_1='ARCH NOAFFIRM NOEXPEDITE NOVERIFY SYNC'
-- LOG_ARCHIVE_DEST_1='REGISTER NOALTERNATE NODEPENDENCY'
-- LOG_ARCHIVE_DEST_1='NOMAX_FAILURE NOQUOTA_SIZE NOQUOTA_USED NODB_UNIQUE_NAME'
-- LOG_ARCHIVE_DEST_1='VALID_FOR=(PRIMARY_ROLE,ONLINE_LOGFILES)'
-- LOG_ARCHIVE_DEST_STATE_1=ENABLE
--
-- Below are two sets of SQL statements, each of which creates a new
-- control file and uses it to open the database. The first set opens
-- the database with the NORESETLOGS option and should be used only if
-- the current versions of all online logs are available. The second
-- set opens the database with the RESETLOGS option and should be used
-- if online logs are unavailable.
-- The appropriate set of statements can be copied from the trace into
-- a script file, edited as necessary, and executed when there is a
-- need to re-create the control file.
--
--     Set #1. NORESETLOGS case
--
-- The following commands will create a new control file and use it
-- to open the database.
-- Data used by Recovery Manager will be lost.
-- Additional logs may be required for media recovery of offline
-- Use this only if the current versions of all online logs are
-- available.
-- WARNING! The current control file needs to be checked against
```

```
-- the datafiles to insure it contains the correct files. The
-- commands printed here may be missing log and/or data files.
-- Another report should be made after the database has been
-- successfully opened.
-- After mounting the created controlfile, the following SQL
-- statement will place the database in the appropriate
-- protection mode:
--  ALTER DATABASE SET STANDBY DATABASE TO MAXIMIZE PERFORMANCE
STARTUP NOMOUNT
CREATE CONTROLFILE REUSE DATABASE "CODAPROD" NORESETLOGS  ARCHIVELOG
    MAXLOGFILES 100
    MAXLOGMEMBERS 3
    MAXDATAFILES 1000
    MAXINSTANCES 8
    MAXLOGHISTORY 9344
LOGFILE
  GROUP 1 '/ora_fra/oradata/codaprod/redolog/redo1.log'  SIZE 200M BLOCKSIZE 512,
  GROUP 2 '/ora_fra/oradata/codaprod/redolog/redo2.log'  SIZE 200M BLOCKSIZE 512,
  GROUP 3 '/ora_fra/oradata/codaprod/redolog/redo3.log'  SIZE 200M BLOCKSIZE 512,
  GROUP 4 '/ora_fra/oradata/codaprod/redolog/redo4.log'  SIZE 200M BLOCKSIZE 512,
  GROUP 5 '/ora_fra/oradata/codaprod/redolog/redo5.log'  SIZE 200M BLOCKSIZE 512,
  GROUP 6 '/ora_fra/oradata/codaprod/redolog/redo6.log'  SIZE 200M BLOCKSIZE 512,
  GROUP 7 '/ora_fra/oradata/codaprod/redolog/redo7.log'  SIZE 200M BLOCKSIZE 512,
  GROUP 8 '/ora_fra/oradata/codaprod/redolog/redo8.log'  SIZE 200M BLOCKSIZE 512,
  GROUP 9 '/ora_fra/oradata/codaprod/redolog/redo9.log'  SIZE 200M BLOCKSIZE 512,
  GROUP 10 '/ora_fra/oradata/codaprod/redolog/redo10.log'  SIZE 200M BLOCKSIZE 512,
  GROUP 11 '/ora_fra/oradata/codaprod/redolog/redo11.log'  SIZE 200M BLOCKSIZE 512,
  GROUP 12 '/ora_fra/oradata/codaprod/redolog/redo12.log'  SIZE 200M BLOCKSIZE 512
-- STANDBY LOGFILE
DATAFILE
  '/u01/app/oracle/oradata/codaprod/system01.dbf',
  '/u01/app/oracle/oradata/codaprod/sysaux01.dbf',
  '/ora_idx3/idxfile5.dbf',
  '/u01/app/oracle/oradata/codaprod/users01.dbf',
  '/ora_data/datafile1.dbf',
  '/ora_idx/idxfile1.dbf',
  '/ora_data/datafile2.dbf',
  '/u01/app/oracle/oradata/codaprod/perfstat01.dbf',
  '/ora_data/datafile3.dbf',
  '/ora_idx/idxfile2.dbf',
  '/ora_data2/datafile4.dbf',
  '/ora_idx2/idxfile3.dbf',
  '/ora_idx2/idxfile4.dbf',
  '/u01/app/oracle/oradata/codaprod/undotbs02.dbf',
  '/ora_data2/datafile5.dbf',
  '/ora_idx3/idxfile6.dbf',
  '/ora_idx4/idxfile7.dbf',
  '/ora_data3/datafile6.dbf',
  '/ora_idx4/idxfile8.dbf',
  '/ora_idx5/idxfile9.dbf',
  '/ora_data3/datafile7.dbf',
  '/ora_data4/datafile8.dbf',
  '/ora_idx5/idxfile10.dbf',
  '/ora_data4/datafile9.dbf',
  '/ora_data5/datafile10.dbf',
  '/ora_data5/datafile11.dbf',
  '/ora_idx6/idxfile11.dbf',
  '/ora_idx6/idxfile12.dbf',
```

```
  '/ora_idx7/idxfile13.dbf',
  '/ora_idx7/idxfile14.dbf'
CHARACTER SET WE8MSWIN1252
;
-- Configure RMAN configuration record 1
VARIABLE RECNO NUMBER;
EXECUTE :RECNO := SYS.DBMS_BACKUP_RESTORE.SETCONFIG('CONTROLFILE AUTOBACKUP','ON');
-- Configure RMAN configuration record 2
VARIABLE RECNO NUMBER;
EXECUTE :RECNO := SYS.DBMS_BACKUP_RESTORE.SETCONFIG('CHANNEL','DEVICE TYPE DISK FORMAT
'''/ora_fra/CODAPROD/dbbackup/%U''');
-- Configure RMAN configuration record 3
VARIABLE RECNO NUMBER;
EXECUTE :RECNO := SYS.DBMS_BACKUP_RESTORE.SETCONFIG('ARCHIVELOG DELETION POLICY','TO
NONE');
-- Configure RMAN configuration record 4
VARIABLE RECNO NUMBER;
EXECUTE :RECNO := SYS.DBMS_BACKUP_RESTORE.SETCONFIG('RETENTION POLICY','TO REDUNDANCY 8');
-- Configure RMAN configuration record 5
VARIABLE RECNO NUMBER;
EXECUTE :RECNO := SYS.DBMS_BACKUP_RESTORE.SETCONFIG('CONTROLFILE AUTOBACKUP FORMAT FOR
DEVICE TYPE','DISK TO ''/ora_fra/CODAPROD/aut
obackup/%F''');
-- Commands to re-create incarnation table
-- Below log names MUST be changed to existing filenames on
-- disk. Any one log file from each branch can be used to
-- re-create incarnation records.
-- ALTER DATABASE REGISTER LOGFILE
'/ora_fra/oradata/codaprod/archivelog/1_1_666429833.arlog';
-- ALTER DATABASE REGISTER LOGFILE
'/ora_fra/oradata/codaprod/archivelog/1_1_727886662.arlog';
-- ALTER DATABASE REGISTER LOGFILE
'/ora_fra/oradata/codaprod/archivelog/1_1_787053544.arlog';
-- ALTER DATABASE REGISTER LOGFILE
'/ora_fra/oradata/codaprod/archivelog/1_1_787135029.arlog';
-- ALTER DATABASE REGISTER LOGFILE
'/ora_fra/oradata/codaprod/archivelog/1_1_787682108.arlog';
-- ALTER DATABASE REGISTER LOGFILE
'/ora_fra/oradata/codaprod/archivelog/1_1_788472374.arlog';
-- ALTER DATABASE REGISTER LOGFILE
'/ora_fra/oradata/codaprod/archivelog/1_1_789074562.arlog';
-- ALTER DATABASE REGISTER LOGFILE
'/ora_fra/oradata/codaprod/archivelog/1_1_828728559.arlog';
-- Recovery is required if any of the datafiles are restored backups,
-- or if the last shutdown was not normal or immediate.
RECOVER DATABASE
-- All logs need archiving and a log switch is needed.
ALTER SYSTEM ARCHIVE LOG ALL;
-- Database can now be opened normally.
ALTER DATABASE OPEN;
-- Commands to add tempfiles to temporary tablespaces.
-- Online tempfiles have complete space information.
-- Other tempfiles may require adjustment.
ALTER TABLESPACE TEMP ADD TEMPFILE '/ora_temp/tempfile3.dbf' REUSE;
ALTER TABLESPACE TEMP ADD TEMPFILE '/ora_temp/tempfile2.dbf' REUSE;
ALTER TABLESPACE TEMP ADD TEMPFILE '/ora_temp/tempfile1.dbf' REUSE;
ALTER TABLESPACE TEMP ADD TEMPFILE '/ora_temp/tempfile4.dbf' REUSE;
ALTER TABLESPACE TEMP ADD TEMPFILE '/ora_temp/tempfile13.dbf' REUSE;
```

```
ALTER TABLESPACE TEMP ADD TEMPFILE '/ora_temp/tempfile11.dbf' REUSE;
ALTER TABLESPACE TEMP ADD TEMPFILE '/ora_temp/tempfile10.dbf' REUSE;
ALTER TABLESPACE TEMP ADD TEMPFILE '/ora_temp/tempfile09.dbf' REUSE;
ALTER TABLESPACE TEMP ADD TEMPFILE '/ora_temp/tempfile12.dbf' REUSE;
ALTER TABLESPACE TEMP ADD TEMPFILE '/ora_temp/tempfile08.dbf' REUSE;
ALTER TABLESPACE TEMP ADD TEMPFILE '/ora_temp/tempfile07.dbf' REUSE;
ALTER TABLESPACE TEMP ADD TEMPFILE '/ora_temp/tempfile06.dbf' REUSE;
ALTER TABLESPACE TEMP ADD TEMPFILE '/ora_temp/tempfile05.dbf' REUSE;
ALTER TABLESPACE TEMP ADD TEMPFILE '/ora_temp/tempfile14.dbf' REUSE;
ALTER TABLESPACE TEMP ADD TEMPFILE '/ora_temp/tempfile15.dbf' REUSE;
ALTER TABLESPACE TEMP ADD TEMPFILE '/ora_temp/tempfile16.dbf' REUSE;
ALTER TABLESPACE TEMP ADD TEMPFILE '/ora_temp/tempfile17.dbf' REUSE;
ALTER TABLESPACE TEMP ADD TEMPFILE '/ora_temp/tempfile18.dbf' REUSE;
ALTER TABLESPACE TEMP ADD TEMPFILE '/ora_temp/tempfile19.dbf' REUSE;
ALTER TABLESPACE TEMP ADD TEMPFILE '/ora_temp/tempfile20.dbf' REUSE;
ALTER TABLESPACE TEMP ADD TEMPFILE '/ora_temp/tempfile21.dbf' REUSE;
ALTER TABLESPACE TEMP ADD TEMPFILE '/ora_temp/tempfile22.dbf' REUSE;
ALTER TABLESPACE TEMP ADD TEMPFILE '/ora_temp/tempfile23.dbf' REUSE;
-- End of tempfile additions.
--
--     Set #2. RESETLOGS case
--
-- The following commands will create a new control file and use it
-- to open the database.
-- Data used by Recovery Manager will be lost.
-- The contents of online logs will be lost and all backups will
-- be invalidated. Use this only if online logs are damaged.
-- WARNING! The current control file needs to be checked against
-- the datafiles to insure it contains the correct files. The
-- commands printed here may be missing log and/or data files.
-- Another report should be made after the database has been
-- successfully opened.
-- After mounting the created controlfile, the following SQL
-- statement will place the database in the appropriate
-- protection mode:
--  ALTER DATABASE SET STANDBY DATABASE TO MAXIMIZE PERFORMANCE
STARTUP NOMOUNT
CREATE CONTROLFILE REUSE DATABASE "CODAPROD" RESETLOGS  ARCHIVELOG
    MAXLOGFILES 100
    MAXLOGMEMBERS 3
    MAXDATAFILES 1000
    MAXINSTANCES 8
    MAXLOGHISTORY 9344
LOGFILE
  GROUP 1 '/ora_fra/oradata/codaprod/redolog/redo1.log'  SIZE 200M BLOCKSIZE 512,
  GROUP 2 '/ora_fra/oradata/codaprod/redolog/redo2.log'  SIZE 200M BLOCKSIZE 512,
  GROUP 3 '/ora_fra/oradata/codaprod/redolog/redo3.log'  SIZE 200M BLOCKSIZE 512,
  GROUP 4 '/ora_fra/oradata/codaprod/redolog/redo4.log'  SIZE 200M BLOCKSIZE 512,
  GROUP 5 '/ora_fra/oradata/codaprod/redolog/redo5.log'  SIZE 200M BLOCKSIZE 512,
  GROUP 6 '/ora_fra/oradata/codaprod/redolog/redo6.log'  SIZE 200M BLOCKSIZE 512,
  GROUP 7 '/ora_fra/oradata/codaprod/redolog/redo7.log'  SIZE 200M BLOCKSIZE 512,
  GROUP 8 '/ora_fra/oradata/codaprod/redolog/redo8.log'  SIZE 200M BLOCKSIZE 512,
  GROUP 9 '/ora_fra/oradata/codaprod/redolog/redo9.log'  SIZE 200M BLOCKSIZE 512,
  GROUP 10 '/ora_fra/oradata/codaprod/redolog/redo10.log'  SIZE 200M BLOCKSIZE 512,
  GROUP 11 '/ora_fra/oradata/codaprod/redolog/redo11.log'  SIZE 200M BLOCKSIZE 512,
  GROUP 12 '/ora_fra/oradata/codaprod/redolog/redo12.log'  SIZE 200M BLOCKSIZE 512
-- STANDBY LOGFILE
DATAFILE
```

```
  '/u01/app/oracle/oradata/codaprod/system01.dbf',
  '/u01/app/oracle/oradata/codaprod/sysaux01.dbf',
  '/ora_idx3/idxfile5.dbf',
  '/u01/app/oracle/oradata/codaprod/users01.dbf',
  '/ora_data/datafile1.dbf',
  '/ora_idx/idxfile1.dbf',
  '/ora_data/datafile2.dbf',
  '/u01/app/oracle/oradata/codaprod/perfstat01.dbf',
  '/ora_data/datafile3.dbf',
  '/ora_idx/idxfile2.dbf',
  '/ora_data2/datafile4.dbf',
  '/ora_idx2/idxfile3.dbf',
  '/ora_idx2/idxfile4.dbf',
  '/u01/app/oracle/oradata/codaprod/undotbs02.dbf',
  '/ora_data2/datafile5.dbf',
  '/ora_idx3/idxfile6.dbf',
  '/ora_idx4/idxfile7.dbf',
  '/ora_data3/datafile6.dbf',
  '/ora_idx4/idxfile8.dbf',
  '/ora_idx5/idxfile9.dbf',
  '/ora_data3/datafile7.dbf',
  '/ora_data4/datafile8.dbf',
  '/ora_idx5/idxfile10.dbf',
  '/ora_data4/datafile9.dbf',
  '/ora_data5/datafile10.dbf',
  '/ora_data5/datafile11.dbf',
  '/ora_idx6/idxfile11.dbf',
  '/ora_idx6/idxfile12.dbf',
  '/ora_idx7/idxfile13.dbf',
  '/ora_idx7/idxfile14.dbf'
CHARACTER SET WE8MSWIN1252
;
-- Configure RMAN configuration record 1
VARIABLE RECNO NUMBER;
EXECUTE :RECNO := SYS.DBMS_BACKUP_RESTORE.SETCONFIG('CONTROLFILE AUTOBACKUP','ON');
-- Configure RMAN configuration record 2
VARIABLE RECNO NUMBER;
EXECUTE :RECNO := SYS.DBMS_BACKUP_RESTORE.SETCONFIG('CHANNEL','DEVICE TYPE DISK FORMAT
''/ora_fra/CODAPROD/dbbackup/%U''');
-- Configure RMAN configuration record 3
VARIABLE RECNO NUMBER;
EXECUTE :RECNO := SYS.DBMS_BACKUP_RESTORE.SETCONFIG('ARCHIVELOG DELETION POLICY','TO
NONE');
-- Configure RMAN configuration record 4
VARIABLE RECNO NUMBER;
EXECUTE :RECNO := SYS.DBMS_BACKUP_RESTORE.SETCONFIG('RETENTION POLICY','TO REDUNDANCY 8');
-- Configure RMAN configuration record 5
VARIABLE RECNO NUMBER;
EXECUTE :RECNO := SYS.DBMS_BACKUP_RESTORE.SETCONFIG('CONTROLFILE AUTOBACKUP FORMAT FOR
DEVICE TYPE','DISK TO ''/ora_fra/CODAPROD/aut
obackup/%F''');
-- Commands to re-create incarnation table
-- Below log names MUST be changed to existing filenames on
-- disk. Any one log file from each branch can be used to
-- re-create incarnation records.
-- ALTER DATABASE REGISTER LOGFILE
'/ora_fra/oradata/codaprod/archivelog/1_1_666429833.arlog';
```

```
-- ALTER DATABASE REGISTER LOGFILE
'/ora_fra/oradata/codaprod/archivelog/1_1_727886662.arlog';
-- ALTER DATABASE REGISTER LOGFILE
'/ora_fra/oradata/codaprod/archivelog/1_1_787053544.arlog';
-- ALTER DATABASE REGISTER LOGFILE
'/ora_fra/oradata/codaprod/archivelog/1_1_787135029.arlog';
-- ALTER DATABASE REGISTER LOGFILE
'/ora_fra/oradata/codaprod/archivelog/1_1_787682108.arlog';
-- ALTER DATABASE REGISTER LOGFILE
'/ora_fra/oradata/codaprod/archivelog/1_1_788472374.arlog';
-- ALTER DATABASE REGISTER LOGFILE
'/ora_fra/oradata/codaprod/archivelog/1_1_789074562.arlog';
-- ALTER DATABASE REGISTER LOGFILE
'/ora_fra/oradata/codaprod/archivelog/1_1_828728559.arlog';
-- Recovery is required if any of the datafiles are restored backups,
-- or if the last shutdown was not normal or immediate.
RECOVER DATABASE USING BACKUP CONTROLFILE
-- Database can now be opened zeroing the online logs.
ALTER DATABASE OPEN RESETLOGS;
-- Commands to add tempfiles to temporary tablespaces.
-- Online tempfiles have complete space information.
-- Other tempfiles may require adjustment.
ALTER TABLESPACE TEMP ADD TEMPFILE '/ora_temp/tempfile3.dbf' REUSE;
ALTER TABLESPACE TEMP ADD TEMPFILE '/ora_temp/tempfile2.dbf' REUSE;
ALTER TABLESPACE TEMP ADD TEMPFILE '/ora_temp/tempfile1.dbf' REUSE;
ALTER TABLESPACE TEMP ADD TEMPFILE '/ora_temp/tempfile4.dbf' REUSE;
ALTER TABLESPACE TEMP ADD TEMPFILE '/ora_temp/tempfile13.dbf' REUSE;
ALTER TABLESPACE TEMP ADD TEMPFILE '/ora_temp/tempfile11.dbf' REUSE;
ALTER TABLESPACE TEMP ADD TEMPFILE '/ora_temp/tempfile10.dbf' REUSE;
ALTER TABLESPACE TEMP ADD TEMPFILE '/ora_temp/tempfile09.dbf' REUSE;
ALTER TABLESPACE TEMP ADD TEMPFILE '/ora_temp/tempfile12.dbf' REUSE;
ALTER TABLESPACE TEMP ADD TEMPFILE '/ora_temp/tempfile08.dbf' REUSE;
ALTER TABLESPACE TEMP ADD TEMPFILE '/ora_temp/tempfile07.dbf' REUSE;
ALTER TABLESPACE TEMP ADD TEMPFILE '/ora_temp/tempfile06.dbf' REUSE;
ALTER TABLESPACE TEMP ADD TEMPFILE '/ora_temp/tempfile05.dbf' REUSE;
ALTER TABLESPACE TEMP ADD TEMPFILE '/ora_temp/tempfile14.dbf' REUSE;
ALTER TABLESPACE TEMP ADD TEMPFILE '/ora_temp/tempfile15.dbf' REUSE;
ALTER TABLESPACE TEMP ADD TEMPFILE '/ora_temp/tempfile16.dbf' REUSE;
ALTER TABLESPACE TEMP ADD TEMPFILE '/ora_temp/tempfile17.dbf' REUSE;
ALTER TABLESPACE TEMP ADD TEMPFILE '/ora_temp/tempfile18.dbf' REUSE;
ALTER TABLESPACE TEMP ADD TEMPFILE '/ora_temp/tempfile19.dbf' REUSE;
ALTER TABLESPACE TEMP ADD TEMPFILE '/ora_temp/tempfile20.dbf' REUSE;
ALTER TABLESPACE TEMP ADD TEMPFILE '/ora_temp/tempfile21.dbf' REUSE;
ALTER TABLESPACE TEMP ADD TEMPFILE '/ora_temp/tempfile22.dbf' REUSE;
ALTER TABLESPACE TEMP ADD TEMPFILE '/ora_temp/tempfile23.dbf' REUSE;
-- End of tempfile additions.


==========================================================================
SQL> alter database open;
alter database open
*
ERROR at line 1:
ORA-00600: internal error code, arguments: [kcratr_nab_less_than_odr], [1],
[23], [81], [189], [], [], [], [], [], [], []


SQL> Show parameter control_files;
```

```
NAME TYPE VALUE
---------------------------------- ----------- ------------------------------
control_files string D:\APP\MAZAR\ORADATA\ORCL\CONT
ROL01.CTL, D:\APP\MAZAR\FLASH_
RECOVERY_AREA\ORCL\CONTROL02.C
TL
SQL> select a.member,a.group#,b.status from v$logfile a ,v$log b where a.group#=b.group#
and b.status='CURRENT';

MEMBER
--------------------------------------------------------------------------------

GROUP# STATUS
---------- ----------------
D:\APP\MAZAR\ORADATA\ORCL\REDO02.LOG
2 CURRENT
SQL> shutdown abort
ORACLE instance shut down.

Take the OS level backup for control files

C:\Windows\system32>COPY D:\APP\MAZAR\ORADATA\ORCL\CONTROL01.CTL D:\APP

1 file(s) copied.

SQL> startup mount
ORACLE instance started.

Total System Global Area 1703624704 bytes
Fixed Size 2176408 bytes
Variable Size 1207962216 bytes
Database Buffers 486539264 bytes
Redo Buffers 6946816 bytes
Database mounted.

Specify the current redo log location
SQL> recover database using backup controlfile until cancel;
ORA-00279: change 1460665 generated at 10/08/2012 08:38:00 needed for thread
ORA-00289: suggestion :
D:\APP\MAZAR\FLASH_RECOVERY_AREA\ORCL\ARCHIVELOG\2012_10_14\O1_MF_1_23_%U_.AR
ORA-00280: change 1460665 for thread 1 is in sequence #23
Specify log: {<RET>=suggested | filename | AUTO | CANCEL}
D:\APP\MAZAR\ORADATA\ORCL\REDO02.LOG
Log applied.
Media recovery complete.

SQL> alter database open resetlogs;

Database altered.



Ref : Support ID 1296264.1
```

1.Get confirmation from business

2.Shutdown http service on both web server, Chris is going to disable all the users;

3.Comment out all lii job/tasks under root/codauser/oracle account
all production servers, codaweb1/codaweb2/codaapp1/codaapp2/codadb1/codadb2/codarpt

4.Manually run the ftp script on codaapp1 server
/coda/codaapp1/script/ftp_EFT.ksh
/coda/codaapp1/script/ftp_Cheques.ksh

5.Schedule the database backup based on when Chris completes his data migration;

6.Once backup is done, send notice to Judy

7.AR report from CGI environment once backup is done;

START/STOP CODA SERVICES:

Run following scripts to start coda service on each partition

1. Login coda Webservers (codaweb1 and codaweb2) as codaops

```
$ su - codaops
[redacted]
```

An operation menu will be started automatically as:

```
 ********************************************************
 ***                                                  ***
 ***    CODA Environment Recycle Menu                 ***
 ***                                                  ***
 ********************************************************

 ========   Stop Steps   ============

 101 => Stop CODA Web Services

 ========   Startup Steps ===========

 102 => Start CODA Web Services

 ====================================

 108 => CODA WebService Status

 ====================================
 q => Exit the menu
```

select 102 => Start CODA Web Services

After this menu appears again, **select** 108 => CODA WebService Status to confirm all CODA WebService processes are started.

2. Login coda application server (codaapp1_svc) as codaops

```
$ su - codaops
[redacted]
```

An operation menu will be started automatically as:

```
********************************************************
***                                                  ***
***    CODA Environment Recycle Menu                 ***
***                                                  ***
********************************************************

 ========   Stop Steps   ============

 201 => Stop CODA Application Server

 ========   Startup Steps  ==========
```

```
 202 => Start CODA Application Server

 ====================================

 208 => CODA Application Server Status

 ====================================

 q => Exit the menu
```

```
select 202 => Start CODA Application Server
```

After this menu appears again, **select** 208 => CODA Application Server Status to confirm all CODA Application processes are started.

3. Login coda DB server (codadb1_svc) as codaops

```
$ su - codaops
```

```
An operation menu will be started automatically as:
 ******************************************************
 ***                                                ***
 ***    CODA Environment Recycle Menu               ***
 ***                                                ***
 ******************************************************

 ========   Stop Steps   ============

 301 => Stop Oracle Database

 ========   Startup Steps  ==========

 302 => Start Oracle Database

 ========   Process Verify  ==========

 308 => Oracle Database Status

 ====================================

 q => Exit the menu
```

```
select 302 => Start Oracle Database
```

After this menu appears again, **select** 308 => Oracle Database Status to confirm Oracle Database is started.

SCHEDULED JOBS:

Codaweb1/codaweb2

Job	Frequency	Location	[redacted]
NIM MKSYSB	Weekly	/usr/local/scripts/client.mksysb.ksh	
CFG2HTML report	Weekly	/usr/local/scripts/cfg2html -1 -o /tmp -e 1 > /tmp/cfg2html_aix_log.txt 2>&1	
Rsync to DR	Daily	/usr/local/scripts/codaweb1_rsync_dr	
CODAWEB1 system error monitor	Daily	/coda/codaweb1/monitor/alertDog.ksh	
CODA Subsystem monitor	Daily	/coda/codaweb1/monitor/monProcess.ksh	
CODA Clean	Daily	/coda/codaweb1/script/codaClean.ksh	
Tomcat Recycle	Weekly	/coda/codaweb1/script/tomcat_recycle.ksh	
nmon Report	Daily	/usr/local/scripts/nmon.ksh	

codaweb1:lchen@/home/codaops>crontab -l

```
# @(#)08        1.15.1.3  src/bos/usr/sbin/cron/root, cmdcntl, bos610 2/11/94 17:19:47
# IBM_PROLOG_BEGIN_TAG
# This is an automatically generated prolog.
#
# bos610 src/bos/usr/sbin/cron/root 1.15.1.3
#
# Licensed Materials - Property of IBM
#
# COPYRIGHT International Business Machines Corp. 1989,1994
# All Rights Reserved
#
# US Government Users Restricted Rights - Use, duplication or
# disclosure restricted by GSA ADP Schedule Contract with IBM Corp.
#
# IBM_PROLOG_END_TAG
#
# COMPONENT_NAME: (CMDCNTL) commands needed for basic system needs
#
# FUNCTIONS:
#
# ORIGINS: 27
#
# (C) COPYRIGHT International Business Machines Corp. 1989,1994
# All Rights Reserved
# Licensed Materials - Property of IBM
#
# US Government Users Restricted Rights - Use, duplication or
# disclosure restricted by GSA ADP Schedule Contract with IBM Corp.
#
#0 3 * * * /usr/sbin/skulker
#45 2 * * 0 /usr/lib/spell/compress
#45 23 * * * ulimit 5000; /usr/lib/smdemon.cleanu > /dev/null
0 11 * * * /usr/bin/errclear -d S,O 30
0 12 * * * /usr/bin/errclear -d H 90
```

```
0,5,10,15,20,25,30,35,40,45,50,55 * * * * /usr/sbin/dumpctrl -k >/dev/null 2>/dev/null
0 15 * * *  /usr/lib/ras/dumpcheck >/dev/null 2>&1

55 23 * * * /var/perf/pm/bin/pmcfg  >/dev/null 2>&1     #Enable PM Data Collection

#CGI
# Weekly NIM MKSYSB
0 12 * * 0 /usr/local/scripts/client.mksysb.ksh > /dev/null 2>&1

# Weekly CFG2HTML report
0 7 * * 0 /usr/local/scripts/cfg2html -1 -o /tmp -e 1 > /tmp/cfg2html_aix_log.txt 2>&1

# MPG Power Navigator data collector Version 6.9
1,16,31,46 * * * * cd /usr/local/mpg; /usr/local/mpg/start_nmon_now -f -q
25 4 * * * cd /usr/local/mpg; /usr/local/mpg/cend.sh -c /usr/local/mpg/pn.config
35 4 * * * cd /usr/local/mpg; /usr/local/mpg/pndcm.sh -c /usr/local/mpg/pn.config clean
30 4 * * * cd /usr/local/mpg; /usr/local/mpg/rackdata.sh -c /usr/local/mpg/pn.config
30 5 2 * * cd /usr/local/mpg; /usr/local/mpg/pndchk.sh
0 5 * * * cd /usr/local/mpg; ./pngetinfo.sh -qa

#Rsync to DR
00 03 * * * /usr/local/scripts/codaweb1_rsync_dr > /dev/null 2>&1
0 0 * * 0 /usr/local/scripts/rsync_log_cleanup.ksh > /dev/null 2>&1

# ===  LII Starts ====
#CODAWEB1 system error monitor;
1 * * * 1-5 /coda/codaweb1/monitor/alertDog.ksh > /coda/codaweb1/monitor/alertDog.out 2>&1

#CODA Subsystem monitor;
1,6,11,16,21,26,31,36,41,46,51,56 * * * * /coda/codaweb1/monitor/monProcess.ksh >
/coda/codaweb1/monitor/monProcess.out 2>&1
1 6,9,12,15,18 * * * /coda/codaweb1/monitor/monSpace.ksh >/dev/null 2>&1

#CODA Clean ;
1 0 * * * /coda/codaweb1/script/codaClean.ksh >/dev/null 2>&1

#Tomcat Recycle
1 22 * * 0 /coda/codaweb1/script/tomcat_recycle.ksh>>/coda/codaweb1/log/tomcat_recycle.out 2>&1

#nmon
#1 0 * * 1-5 /coda/nmon/coda-nmon.ksh >>/coda/nmon/coda-nmon.out 2>&1
# ===  LII ENDS ====

#Daily error report redirection
0 0 * * * /usr/local/scripts/DailyError_Archive.ksh > /usr/local/logs/DailyError_Archive.log
2>&1

#Daily nmon Report
0 0 * * * /usr/local/scripts/nmon.ksh > /usr/local/logs/nmon.out 2>&1
```

codaweb1:lchen@/coda/codaweb1/script>cat codaClean.ksh

```
       #!/usr/bin/ksh

       TODAY="`date +%Y`-`date +%m`-`date +%d`"
```

```
        echo $TODAY

        #cd /usr/apache-tomcat-6.0.28/logs
        #cp -p catalina.out catalina.out.$TODAY
        #cat /dev/null>catalina.out

        #find . -name "catalina*.log" -mtime +3 -exec rm -f {} \;
        #find . -name "*.out.*" -mtime +3 -exec rm -f {} \;

        cd /usr/local/apache2/logs
        cp -p access_log access_log.$TODAY
        cat /dev/null>access_log

        find . -name "*_log.*" -mtime +3 -exec rm -f {} \;
```

codaweb1:lchen@/coda/codaweb1/script>cat tomcat_recycle.ksh

```
        #!/usr/bin/ksh

        export JAVA_HOME=/usr/java6_64/jre

        PATH=/usr/bin:/etc:/usr/sbin:/usr/ucb:$HOME/bin:/usr/bin/X11:/sbin:/usr/vac/bin:$JAVA_HOM
        E/bin:.

        export PATH

        echo "Stop WebService @ `date` ....\n"
        /coda/codaweb1/bin/stopcodaweb1.ksh

        sleep 300

        echo "\n Clean the log files ....\n"
        cd /usr/apache-tomcat-6.0.28/logs/archive
        rm -rf *
        mv ../*.log .
        mv ../*.out .

        echo "\nStart WebService @ `date` ....\n"
        /coda/codaweb1/bin/startcodaweb1.ksh

        sleep 120
        for process in DSS http tomcat
        do
          proNo=`ps -ef|grep $process|wc -l`
          if [[ $proNo -eq 0 ]]
            then
              mail -s "ALERT:$process is not running on `hostname` @ `date`"
        ""@cweb.com</dev/null
          fi
        done
```

lchen@codaweb2:/home/lchen># cat /coda/codaweb2/bin/startcodaweb2.ksh

```
        #!/usr/bin/ksh

        Log=/coda/codaweb2/bin/startcodaweb2.out
        LsvLog=/coda/codaweb2/bin/coda-dssstrlsv.out
```

```
        date > $Log

        #Start apache HTTP Server;
        cd /usr/local/apache2/bin
        echo "\n == Start Apache HTTP Server ..." >>$Log
        ./apachectl start
        if [ $? -eq 1 ]
         then
           echo "Problem to start HTTP Server ...quit\n" >>$Log
           exit 1
         else
           echo "HTTP Server has been started\n" >>$Log
        fi

        #Start apache TomCat Server;
        echo "\n == Start TomCat ..." >>$Log
        cd /usr/apache-tomcat-6.0.28/bin
        ./startup.sh|tee -a $Log
        if [ $? -eq 1 ]
         then
           echo "Problem to start TomCat ...quit\n" >> $Log
           exit 1
         else
           echo "TomCat has been started\n" >>$Log
        fi

        #Start CODA web application;
        echo "\n == Start CODA-DSSSTRLSV Service..." >>$Log
        cd /usr/coda/instances/CODAPROD/DSS
        nohup ./dssstrlsv >$LsvLog 2>&1 &
        if [ $? -eq 1 ]
         then
           echo "Problem to start CODA web application ...\n" >>$Log
           echo "quit.....\n"
           exit 1
         else
           echo "Coda web application has been started\n" >>$Log
        fi
```

codaweb1:lchen@/coda/codaweb1/bin>cat stopcodaweb1.ksh

```
        #!/usr/bin/ksh

        Log=/coda/codaweb1/bin/stopcodaweb1.out

        echo "\n================================================\n">>$Log

        date > $Log

        #Stop CODA web application;
        echo "\n == Stop Coda Web Process .....\n" >>$Log
        for pid in `ps -ef|grep "/usr/coda/instances/CODAPROD/DSS"|grep -v "grep"|awk '{print
        $2}'`
        do
        echo "Here is the PID for web Application to kill : $pid\n" >> $Log
```

```
kill $pid
done

#Stop apache TomCat Server;
echo "\n == Stop TomCat .....\n" >>$Log
cd /usr/apache-tomcat-6.0.28/bin
./shutdown.sh
if [ $? -eq 1 ]
 then
   echo "\n Problem to stop TomCat ...quit\n" >>$Log
   exit 1
 else
   echo "\n TomCat has been stopped\n" >>$Log
fi

#Stop apache HTTP Server;
echo "\n == Stop Apache HTTP Server .....\n" >>$Log
cd /usr/local/apache2/bin
./apachectl stop
if [ $? -eq 1 ]
 then
   echo "\n Problem to stop HTTP Server ...quit\n" >>$Log
   exit 1
 else
   echo "\n HTTP Server has been stopped\n" >>$Log
fi

echo "================================================\n" >>$Log
```

codaweb1:lchen@/coda/codaweb1/monitor>cat monProcess.ksh

```
#!/bin/ksh
################################################################################
#
# Name:        monProcess.ksh
#
# Reference:   n/a
#
# Description: monitor the CODA Sub System process;
#
# Parameters:  None
#
# Modification History:
#
#               Date            Name            Description
#               ---------------------------------------------------
#               2010-10-06      "" Guo
#
################################################################################
set -v
set -x

# log and reference files
msgLog=/coda/codaweb1/log/monitor/monProcess.log

# email user list
```

```
        set -A AlertList ""@cweb.com

        date >> $msgLog
        echo "\n============================================================\n" >>$msgLog
        #Check HTTP process;
        ps -ef|grep http
        if (( $? == 1 ))
        then
          echo "Alert: HTTP Server is not running ....\n"|tee -a $magLog
          mail -s "No HTTP Process is running on `hostname`" ${AlertList[*]} </dev/null
        fi

        #Check TOMCAT process;
        ps -ef|grep tomcat
        if (( $? == 1 ))
        then
          echo "Alert: TOMCAT is not running ....\n"|tee -a $magLog
          mail -s "TOMCAT is not running on `hostname`" ${AlertList[*]} </dev/null
        fi

        #Check CODA WebService;
        ps -ef|grep DSS
        if (( $? == 1 ))
        then
          echo "Alert: DSS is not running ....\n"|tee -a $magLog
          mail -s "DSS is not running on `hostname`" ${AlertList[*]} </dev/null
        fi

        echo "\n============================================================\n" >>$msgLog

        exit 0
```

codaweb1:lchen@/coda/codaweb1/monitor>cat /usr/local/scripts/codaweb1_rsync_dr

```
        #!/usr/bin/ksh93

        #   Script written by Dave Benvie CGI
        #   This script rsync's file systems/directories identified by
        #   Livingston Internation to be kept in syncronization with their current
        #   DR partitions.
        #   codaweb1

        RSYNC_LIST='/coda /usr/coda'

        PDC_IP='10.153.255.210'

        LOG=/usr/local/logs/rsync/codaweb1_rsync_log`date +%Y"-"%m"-"%d`

        for i in $RSYNC_LIST
        do
           echo "Starting rsync for file system $i `date`" >> $LOG
           echo "Statistics of syncronization below" >> $LOG
           echo >> $LOG
           rsync -acvps --del $i/ root@$PDC_IP:$i >> $LOG
           RESULT=${?}
           echo "${RESULT}" >/tmp/rsyncStatus.$(uname -n)
```

```
        echo >> $LOG
        echo "Finished syncronizarions for file system $i." >> $LOG
        echo "########################################################" >> $LOG
        echo  >> $LOG
    done
```

root@codaweb1:/home/codaops># cat .profile

```
    PATH=/usr/bin:/etc:/usr/sbin:/usr/ucb:$HOME/bin:/usr/bin/X11:/sbin:.

    export PATH

    if [ -s "$MAIL" ]           # This is at Shell startup.  In normal
    then echo "$MAILMSG"        # operation, the Shell checks
    fi                          # periodically.

    alias rm='rm -i'

    trap 'exit' INT

    /home/codaops/bin/codarecycle.ksh

    exit
```

Codaapp1/codaapp2

Job	Frequency	Location	email
NIM MKSYSB	Weekly	/usr/local/scripts/client.mksysb.ksh	""
CFG2HTML report	Weekly	/usr/local/scripts/cfg2html -1 -o /tmp -e 1 > /tmp/cfg2html_aix_log.txt 2>&1	""
Rsync to DR	Daily	/usr/local/scripts/codaapp1_rsync_dr	""
system error monitor	Daily	//coda/codaapp1/monitor/alertDog.ksh	""
Monitor Space	Daily	/coda/codaapp1/monitor/monSpace.ksh	""
Monitor App	Daily	/coda/codaapp1/script/monProcess.ksh	""
CODA Clean	Daily	/coda/codaapp1/script/codaClean.ksh	""
nmon Report	Daily	/usr/local/scripts/nmon.ksh	""
ftp	Daily	/coda/codaapp1/script/ftp_Cheques.ksh /coda/codaapp1/script/ftp_EFT.ksh /coda/codaapp1/script/ftp_eStatement.ksh	""

root@codaapp1:/># crontab -l

```
# @(#)08        1.15.1.3  src/bos/usr/sbin/cron/root, cmdcntl, bos610 2/11/94 17:19:47
# IBM_PROLOG_BEGIN_TAG
# This is an automatically generated prolog.
#
# bos610 src/bos/usr/sbin/cron/root 1.15.1.3
#
# Licensed Materials - Property of IBM
#
# COPYRIGHT International Business Machines Corp. 1989,1994
# All Rights Reserved
#
# US Government Users Restricted Rights - Use, duplication or
# disclosure restricted by GSA ADP Schedule Contract with IBM Corp.
#
# IBM_PROLOG_END_TAG
```

```
#
# COMPONENT_NAME: (CMDCNTL) commands needed for basic system needs
#
# FUNCTIONS:
#
# ORIGINS: 27
#
# (C) COPYRIGHT International Business Machines Corp. 1989,1994
# All Rights Reserved
# Licensed Materials - Property of IBM
#
# US Government Users Restricted Rights - Use, duplication or
# disclosure restricted by GSA ADP Schedule Contract with IBM Corp.
#
#0 3 * * * /usr/sbin/skulker
#45 2 * * 0 /usr/lib/spell/compress
#45 23 * * * ulimit 5000; /usr/lib/smdemon.cleanu > /dev/null
0 11 * * * /usr/bin/errclear -d S,O 30
0 12 * * * /usr/bin/errclear -d H 90
0,5,10,15,20,25,30,35,40,45,50,55 * * * * /usr/sbin/dumpctrl -k >/dev/null 2>/dev/null
0 15 * * *  /usr/lib/ras/dumpcheck >/dev/null 2>&1
0 0 * * * /usr/es/sbin/cluster/utilities/clcycle 1>/dev/null 2>/dev/null # HACMP for AIX Logfile
rotation

#CODAAPP1 system error monitor;
1,31 * * * * /coda/codaapp1/monitor/alertDog.ksh >/coda/codaapp1/monitor/alertDog.out 2>&1

#Coda Log Clean
58 23 * * * /coda/codaapp1/script/codaClean.ksh >/dev/null 2>&1

#Monitor Space
1 6,9,12,15,18 * * * /coda/codaapp1/monitor/monSpace.ksh >/dev/null 2>&1

#nmon
#1 0 * * 1-5 /coda/nmon/coda-nmon.ksh >> /coda/nmon/coda-nmon.out 2>&1

55 23 * * * /var/perf/pm/bin/pmcfg  >/dev/null 2>&1     #Enable PM Data Collection

# Weekly NIM MKSYSB
0 12 * * 0 /usr/local/scripts/client.mksysb.ksh > /dev/null 2>&1

# Weekly CFG2HTML report
0 7 * * 0 /usr/local/scripts/cfg2html -1 -o /tmp -e 1 > /tmp/cfg2html_aix_log.txt 2>&1

# MPG Power Navigator data collector Version 6.9
1,16,31,46 * * * * cd /usr/local/mpg; /usr/local/mpg/start_nmon_now -f -q
25 4 * * * cd /usr/local/mpg; /usr/local/mpg/cend.sh -c /usr/local/mpg/pn.config
35 4 * * * cd /usr/local/mpg; /usr/local/mpg/pndcm.sh -c /usr/local/mpg/pn.config clean
30 4 * * * cd /usr/local/mpg; /usr/local/mpg/rackdata.sh -c /usr/local/mpg/pn.config
30 5 2 * * cd /usr/local/mpg; /usr/local/mpg/pndchk.sh
0 5 * * * cd /usr/local/mpg; ./pngetinfo.sh -qa

#Rsync to DR
00 03 * * * /usr/local/scripts/codaapp1_rsync_dr > /dev/null 2>&1
0 0 * * 0 /usr/local/scripts/rsync_log_cleanup.ksh > /dev/null 2>&1
```

```
# ===== LII Starts =====
#daily ftp job;
1,6,11,16,21,26,31,36,41,46,51,56 * * * * /coda/codaapp1/script/ftp_Cheques.ksh >>
/coda/codaapp1/log/ftp/ftp_Cheques.log 2>&1
1 12,15,17,18 * * * /coda/codaapp1/script/ftp_EFT.ksh >> /coda/codaapp1/log/ftp/ftp_EFT.log 2>&1
#1,16,31,46 8-12 * * * /coda/codaapp1/script/ftp_eStatement.ksh >>
/coda/codaapp1/log/ftp/ftp_eStatement.log 2>&1
1,16,31,46 8-17 * * * /coda/codaapp1/script/ftp_eStatement.ksh >>
/coda/codaapp1/log/ftp/ftp_eStatement.log 2>&1

#Application Monitor
1,6,11,16,21,26,31,36,41,46,51,56 * * * * /coda/codaapp1/script/monProcess.ksh >>
/coda/codaapp1/log/monProcess.log 2>&1
# ===== LII Ends =====

#Daily error report redirection
0 0 * * * /usr/local/scripts/DailyError_Archive.ksh > /usr/local/logs/DailyError_Archive.log
2>&1

#Daily nmon Report
0 0 * * * /usr/local/scripts/nmon.ksh > /usr/local/logs/nmon.out 2>&1
```

codaapp1:lchen@/coda/codaapp1/script>cat codaClean.ksh

```
       #!/usr/bin/ksh

       TODAY=`date +%Y%m%d`

       cd /home/codauser/bin

       mkdir $TODAY

       for log in $(ls coda*.out)
        do
          cp -p $log ${log}.${TODAY}
          cat /dev/null>$log
          mv ${log}.${TODAY} $TODAY
       done

       mv $TODAY /home/codauser/bin/log.bak
       cd /home/codauser/bin/log.bak
       #find . -name "coda*.out.*" -mtime +7 -exec rm -f {} \;
       find . -mtime +8 -type d -exec rm -rf {} \;
```

codaapp1:lchen@/coda/codaapp1/script>cat ftp_Cheques.ksh

```
       #!/usr/bin/ksh

       echo "\n====== Start cheque ftp process @ `date` on `hostname` ======\n"

       set -A AlertList ""@cweb.com

       #set -A AlertList ""@cweb.com \
       #                 computerops@cweb.com
```

```
lsvg -o|grep codaapp1_codavg

if [[ $? == 1 ]]
 then
   echo "*** Alert: Resource is not available on node `hostname`..."
   exit 1
fi

if [[ -f /coda/codaapp1/status/ftp_ePay.status ]]
then
 echo "\n `date`  ** ALERT : Previous job is still running on `hostname` **\n"
 mail -s "`hostname`: Previous ePay FTP is still running" ""@cweb.com</dev/null
 exit 0
fi

cd /codafiles/ePay/output

fileNo=`ls|grep -v "EFT"|wc -l`
if [[ $fileNo -eq 0 ]]
then
  echo "There is no file to grab ...."
  exit
fi

DATE=`date +%Y%m%d`

if [[ ! -d "/codafiles/ePay/archive/$DATE" ]]
then
   mkdir /codafiles/ePay/archive/$DATE
fi

touch /coda/codaapp1/status/ftp_ePay.status

#Get the files;
#mv /codafiles/ePay/output/* /codafiles/ePay/temp
for file in `ls|grep -v "EFT"`
do
#  mv $file /codafiles/ePay/temp
  proNo=`fuser test1.out 2>/dev/null|awk '{print $1}'|wc -l`
  if [[ $proNo -eq 0 ]]
    then
       mv $file /codafiles/ePay/temp
  fi
done

cd /codafiles/ePay/temp
for file in `ls /codafiles/ePay/temp`
do
echo "\n\n `date` -- Put file to Bottomline Server ...\n"
ftp -v -n 10.253.128.12 <<!
user codaupload Coda123
prompt
bin
put "$file"
quit
```

```
!
done

#mv /codafiles/ePay/temp/* /codafiles/ePay/archive/$DATE
#Move the files;
cd /codafiles/ePay/temp
timestamp=`date +%Y%m%d%H%M%S`
for file in `ls`
do
  mv $file /codafiles/ePay/archive/$DATE/$file.$timestamp
done

cd /codafiles/ePay/archive

find . -mtime +35 -type d -exec rm -rf {} \;

rm -rf /coda/codaapp1/status/ftp_ePay.status
```

codaapp1:lchen@/coda/codaapp1/script>cat ftp_EFT.ksh

```
#!/usr/bin/ksh

echo "\n ===== Start EFT ftp process @ `date` on `hostname` =====\n"

set -A AlertList ""@cweb.com

#set -A AlertList ""@cweb.com \
#                 computerops@cweb.com

lsvg -o|grep codaapp1_codavg

if [[ $? == 1 ]]
 then
   echo "****** Alert: Resource is not available on node `hostname` ...\n"
   exit 1
fi

if [[ -f /coda/codaapp1/status/ftp_EFT.status ]]
then
 echo "\n `date`  ** ALERT : Previous job is still running on `hostname` **\n"
 mail -s "`hostname`: Previous EFT FTP is still running" ""@cweb.com</dev/null
 exit 0
fi

cd /codafiles/ePay/output

fileNo=`ls|grep "EFT"|wc -l`
if [[ $fileNo -eq 0 ]]
then
  echo "There is no file to grab ...."
  exit
fi

DATE=`date +%Y%m%d`

if [[ ! -d "/codafiles/ePay/EFT_arch/$DATE" ]]
```

```
then
   mkdir /codafiles/ePay/EFT_arch/$DATE
fi

touch /coda/codaapp1/status/ftp_EFT.status

cd /codafiles/ePay/output
for file in `ls|grep "EFT"`
do
  mv $file /codafiles/ePay/EFT
done

cd /codafiles/ePay/EFT
for file in `ls|sed 's/.dat$//'`
do
timestamp=`date +%Y%m%d%H%M%S`
#newFile=`echo $file|awk -F "-" '{print $1"-"$2"-"$3"-"$4"-"$6"-"$7"-"$8"-"$9}'`
newFile=EFT$timestamp
ftp -v -n 10.253.129.19<<!
    user estatement Coda2012
    bin
    cd /bankout/rbc
    #cd /Bank/BMO/EFT_In
    put $file.dat $newFile.temp
    rename $newFile.temp $newFile.dat
    quit
!
mv $file.dat /codafiles/ePay/EFT_arch/$DATE/$file.dat.$timestamp
sleep 5
done

#mv /codafiles/ePay/EFT/* /codafiles/ePay/EFT_arch/$DATE
#Move the files;
#cd /codafiles/ePay/EFT
#timestamp=`date +%Y%m%d%H%M%S`
#for file in `ls`
#do
#  mv $file /codafiles/ePay/EFT_arch/$DATE/$file.$timestamp
#done

cd /codafiles/ePay/EFT_arch

find . -mtime +35 -type d -exec rm -rf {} \;

rm -rf /coda/codaapp1/status/ftp_EFT.status
```

codaapp1:lchen@/coda/codaapp1/script>cat ftp_eStatement.ksh

```
#!/usr/bin/ksh

echo "\n ====== Start eStatement FTP process `date` on `hostname` =====\n"

set -A AlertList ""@cweb.com

#set -A AlertList ""@cweb.com \
#                 computerops@cweb.com
```

```
lsvg -o|grep codaapp1_codavg

if [[ $? == 1 ]]
 then
   echo "*** Alert: Resource is not available on node `hostname` ..."
   exit 1
fi

if [[ -f /coda/codaapp1/status/ftp_eStatment.status ]]
then
 echo "\n `date`  ** ALERT : Previous job is still running on `hostname` **\n"
 mail -s "`hostname`: Previous eStatement FTP is still running" ""@cweb.com</dev/null
 exit 0
fi

touch /coda/codaapp1/status/ftp_eStatement.status

umask 111

cd /codafiles/eStatement/temp
#Get the files;
echo "\n\n `date` -- Get files from BLACK BOX ...\n"
ftp -v -n 10.253.129.19<<!
user estatement Coda2012
prompt
asc
cd /Bank
mget *.txt
quit
!

fileNo=`ls *.txt|wc -l`
if [[ $fileNo -gt 0 ]]
then
echo "We have files to handle ...\n"
timestamp=`date +%Y%m%d%H%M%S`
for file in `ls *.txt`
do
##Now delete it on target site;
ftp -v -n 10.253.129.19<<!
user estatement Coda2012
cd /Bank
delete $file
quit
!

#Rename the input file...
mv $file $file.$timestamp
done
else
echo "There is no input file to handle...\n"
fi
```

```
#fileList="MT9854709202.txt MT9854709194.txt RBC1115971.txt RBC1116227.txt RBC1116813.txt
RBC1116920.txt RBC1116987.txt RBC4046223.t
xt RBC4046462.txt RBC4046637.txt RBC4056651.txt SB28658617.txt"

fileList="MT9854709202.txt MT9854709194.txt RBC1115971.txt RBC1116227.txt RBC1116813.txt
RBC1116920.txt RBC1116987.txt RBC4046223.tx
t RBC4046462.txt RBC4046637.txt RBC4056651.txt SB28658617.txt BMO1895886.txt
BMO4678384.txt BMO1891033.txt BMO1894031.txt BMO4676928
.txt BMO1890997.txt BMO4676047.txt BMO4675626.txt BMO1895851.txt BMO4678376.txt
BAM483043664936.txt BAM483043592244.txt"


#Move processed files to archive directory;
DATE=`date +%Y%m%d`
if [[ ! -d "/codafiles/eStatement/archive/$DATE" ]]
then
   mkdir /codafiles/eStatement/archive/$DATE
fi

#archive processed
cd /codafiles/eStatement/processed
timestamp=`date +%Y%m%d%H%M%S`
for done in `ls /codafiles/eStatement/processed`
do
  mv $done /codafiles/eStatement/archive/${DATE}/${done}.${timestamp}
done

find . -mtime +35 -type d -exec rm -rf {} \;

#Handle the new bank file;
cd /codafiles/eStatement/temp
fileNo=`ls|wc -l`
if [[ $fileNo -eq 0 ]]
then
  echo "There is no file to handle ...."
  exit
fi

for file in $fileList
do
  if [[ ! -a /codafiles/eStatement/input/$file ]]
    then
      #fileNo=`ls $file.*|wc -l`
      #if [[ $fileNo -gt 0 ]]
      ls $file.* 2>/dev/null
      if [[ $? -eq 0 ]]
        then
           newFile=`ls $file.*|head -1`
           mv $newFile /codafiles/eStatement/input/$file
      fi
  fi
done

rm -rf /coda/codaapp1/status/ftp_eStatement.status
```

codaapp1:lchen@/coda/hacmp>cat app_start.ksh

```
#!/usr/bin/ksh

LogFile=/coda/hacmp/app_start.out

date >$LogFile

echo "===== Starting CODA Application Server @ `date` on `hostname` ... \n" |tee -a
$LogFile

su - codauser >>$LogFile 2>&1 <<EOF
  cd /home/codauser/bin
  ./startcodaapp1.ksh
  if [ $? -ne 0 ]; then
    echo "***** ALert : problem to start CODA Application Server @ `date` on `hostname`
...\n"|tee -a $LogFile
     exit 1
  fi
EOF

echo "===== CODA Application Server is started @ `date` on `hostname` ... \n" |tee -a
$LogFile

exit 0
```

codaapp1:lchen@/coda/hacmp>cat app_stop.ksh

```
#!/usr/bin/ksh

LogFile=/coda/hacmp/app_stop.out

date >$LogFile

echo "===== Stopping CODA Application Server @ `date` on `hostname` ... \n" |tee -a
$LogFile

su - codauser >>$LogFile 2>&1 <<EOF
  cd /home/codauser/bin
  ./stopcodaapp1.ksh
  if [ $? -ne 0 ]; then
    echo " *****  Alert : problem to stop CODA Application Server @ `date` on `hostname`
...\n"|tee -a $LogFile
     exit 1
  fi
EOF

echo "===== CODA Application Server is stopped @ `date` on `hostname` ... \n" |tee -a
$LogFile

exit 0
```

codaapp1:lchen@/coda/codaapp1/bin>cat startcodaapp1.ksh

```
#!/usr/bin/ksh

LogFile=/coda/codaapp1/bin/startcodaapp1.out
```

```
        date >$LogFile
        HostName=`hostname`

        su - codauser >>$LogFile 2>&1 <<EOF
          echo "Start CODA Application Server on $HostName ... \n"
          cd /home/codauser/bin
          ./startcodaapp1.ksh
          if [ $? -ne 0 ]; then
            echo "problem to start CODA Application Server on $HostName ...\n"
             exit 1
          fi
        EOF

        exit 0
```

codaapp1:lchen@/coda/codaapp1/bin>cat stopcodaapp1.ksh

```
        #!/usr/bin/ksh


        LogFile=/coda/codaapp1/bin/stopcodaapp1.out

        date >$LogFile
        HostName=`hostname`

        su - codauser >>$LogFile 2>&1 <<EOF
          echo "Stop CODA Application Server on $HostName ... \n"
          cd /home/codauser/bin
          ./stopcodaapp1.ksh
          if [ $? -ne 0 ]; then
            echo "problem to stop CODA Application Server on $HostName ...\n"
             exit 1
          fi
        EOF

        exit 0
```

codaapp1:lchen@/home/codauser/bin>cat stopcodaapp1.ksh

```
        #!/usr/bin/ksh

        Log=/home/codauser/bin/stopcodaapp1.out

        echo "\n=======================================================\n">>$Log
        date >>$Log

        echo "\n Stop the CODA applications now .....\n"  >>$Log

        clear
        list="codaprod_icm_lsv codaprod_epay_lsv codaprod_fin_lsv codaprod_fwk_lsv
        codaprod_efa_lsv codaprod_cnf_lsv oas_nsv"
        for lsv in $list
          do
            pid=`ps -ef|grep "$lsv"|grep -v "grep"|awk '{print $2}'`
            if [[ $pid -gt 0 ]]
              then
                kill -9 $pid|tee -a $Log
```

```
    fi
  done

for pid in `ps -ef|grep "/usr/coda/oas/bin/oas_asv"|awk '{print $2}'`
do
  kill -9 $pid
done

echo "Complete the stop procedure ....\n" >>$Log
echo "\n ================================================\n" >>$Log

exit 0
```

codaapp1:lchen@/home/codauser/bin>cat startcodaapp1.ksh

```
#!/usr/bin/ksh

CODA_USR_JAVA=/usr/java6_64/jre/bin/java
export CODA_USR_JAVA

JAVA_HOME=/usr/java6_64/jre
export JAVA_HOME

ORACLE_HOME=/home/codauser/oracle/product/10.2.0/db_1
export ORACLE_HOME

CODA_USR_CLASSPATH=$ORACLE_HOME/jdbc/lib/ojdbc14.jar
export CODA_USR_CLASSPATH

ORACLE_SID=codaprod
export ORACLE_SID

TWO_TASK=codaprod
export TWO_TASK

Log=/home/codauser/bin/startcodaapp1.out
app1Log=/home/codauser/bin/coda-nameServer.out
app2Log=/home/codauser/bin/coda-adminConsole.out
app3Log=/home/codauser/bin/coda-financial.out
app4Log=/home/codauser/bin/coda-assets.out
app5Log=/home/codauser/bin/coda-ePay.out
app6Log=/home/codauser/bin/coda-eConfigurator.out
app7Log=/home/codauser/bin/coda-icm.out

status=`tnsping codaprod|tail -1|awk '{print $1}'`

if [[ $status != 'OK' ]]
  then
    echo "Alert: Listener is not up ....\n"
    echo "CODA application is not started due to DB environment is not ready ...\n"
    exit 1
fi

echo "\n============================================================\n">>$Log
date >> $Log
```

```
echo "\nStart the CODA application now .....\n" >>$Log

echo "\n=====================================================\n">>$app1Log
date >> $app1Log
echo "\n --- starting CODA Name Server .... \n" >>$Log
nohup /usr/coda/instances/CODAPROD/OAS/oasstrnsv >>$app1Log 2>&1 &
if [ $? -eq 1 ]
 then
   echo "\n *** ALARM *** : Name Server is not up ... \n" >>$app1Log
   exit 1;
fi

echo "\n=====================================================\n">>$app3Log
date >> $app3Log
echo "\n --- starting CODA Financials .... \n" >>$Log
nohup /usr/coda/instances/CODAPROD/OAS/oasstrlsv >>$app3Log 2>&1 &
if [ $? -eq 1 ]
 then
   echo "\n *** ALARM *** : Financial Server is not up ... \n" >>$app3Log
   exit 1;
fi

echo "\n=====================================================\n">>$app2Log
date >> $app2Log
echo "\n --- starting CODA Administration Console .... \n" >>$Log
nohup /usr/coda/instances/CODAPROD/FRS/frsstrlsv >>$app2Log 2>&1 &
if [ $? -eq 1 ]
 then
   echo "\n *** ALARM *** : Administration Console Server is not up ... \n" >>$app2Log
   exit 1;
fi

echo "\n=====================================================\n">>$app4Log
date >> $app4Log
echo "\n --- starting CODA Assets .... \n" >>$Log
nohup /usr/coda/instances/CODAPROD/EFA/efastrlsv >>$app4Log 2>&1 &
if [ $? -eq 1 ]
 then
   echo "\n *** ALARM *** : ASSETS is not up ... \n" >>$app4Log
   exit 1;
fi

echo "\n=====================================================\n">>$app5Log
date >> $app5Log
echo "\n --- starting CODA Addons (E-Pay) Server .... \n" >>$Log
nohup /usr/coda/instances/CODAPROD/ADD/addstrlsv >>$app5Log 2>&1 &
if [ $? -eq 1 ]
 then
   echo "\n *** ALARM *** : ePay is not up ... \n" >>$app5Log
   exit 1;
fi

echo "\n=====================================================\n">>$app6Log
date >> $app6Log
echo "\n --- starting CODA eConfigurator .... \n" >>$Log
```

```
nohup /usr/coda/instances/CODAPROD/CNF/cnfstrlsv >>$app6Log 2>&1 &
if [ $? -eq 1 ]
 then
   echo "\n *** ALARM *** : eConfigurator is not up ... \n" >>$app6Log
   exit 1;
fi

echo "\n=====================================================\n">>$app7Log
date >> $app7Log
echo "\n --- starting CODA ICM .... \n" >>$Log
nohup /usr/coda/instances/CODAPROD/ICM/icmstrlsv >>$app7Log 2>&1 &
if [ $? -eq 1 ]
 then
   echo "\n *** ALARM *** : ICM is not up ... \n" >>$app7Log
   exit 1;
fi

sleep 30

echo "Complete the start procedure ....\n" >>$Log
```

Codadb1/codadb2

Job	Frequency	Location	email
NIM MKSYSB	Weekly	/usr/local/scripts/client.mksysb.ksh	""
CFG2HTML report	Weekly	/usr/local/scripts/cfg2html -1 -o /tmp -e 1 > /tmp/cfg2html_aix_log.txt 2>&1	""
Rsync to DR	Daily	/usr/local/scripts/codadb1_rsync_dr	""
system error monitor	Daily	/coda/codadb1/monitor/alertDog.ksh	""
DB Space	Daily	/home/oracle/script/db_space_rpt.ksh /home/oracle/script/db_userRpt.ksh	""
DB Backup	Daily	/home/oracle/script/db_full_backup.ksh /home/oracle/script/db_rcp.ksh /home/oracle/script/codarpt_job.ksh /home/oracle/script/reset_flag.ksh	""
Db monitor	Daily	/coda/codadb1/monitor/monProcess.ksh	""
DB stat	Daily	/home/oracle/script/db_stat.ksh /home/oracle/script/statpack.ksh	""
Finance Report	Daily	/ora_fra/dataextract/aging/aging.ksh /ora_fra/dataextract/hyperion/extract_spe.ksh	""
??		/ora_fra/dataextract/rakesh/test.ksh	

codadb1:oracle@/home/oracle>crontab -l

```
#Db space report;
1 6 * * * /home/oracle/script/db_space_rpt.ksh >>/home/oracle/report/db_space_rpt.log 2>&1
1 2 * * * /home/oracle/script/db_userRpt.ksh >/home/oracle/report/db_userRpt.log 2>&1

#Db daily backup;
1 23 * * * /home/oracle/script/db_full_backup.ksh >/home/oracle/report/db_full_backup.log 2>&1

1 2 * * * /home/oracle/script/db_rcp.ksh >/home/oracle/report/db_rcp.out 2>&1
31 4 * * * /home/oracle/script/codarpt_job.ksh >/home/oracle/report/codarpt_job.out 2>&1
1 22 * * * /home/oracle/script/reset_flag.ksh >/home/oracle/report/reset_flag.out 2>&1

#Db monitor;
2,32 * * * * /coda/codadb1/monitor/monProcess.ksh >/coda/codadb1/monitor/monProcess.out 2>&1
```

```
#DB stat;
1 2 * * * /home/oracle/script/db_stat.ksh >>/home/oracle/report/db_stat.out 2>&1
1,16,31,46 * * * * /home/oracle/script/statpack.ksh >/dev/null 2>&1

#Finance Report
1 6 * * * /ora_fra/dataextract/aging/aging.ksh >/ora_fra/dataextract/aging/aging.out 2>&1
## below 1 extract are disabled as per request from Finance;
##1 18 * * 0 /ora_fra/dataextract/hyperion/extract_spe.ksh
>/ora_fra/dataextract/hyperion/extract_spe.out 2>&1
1 8 * * 2-5 /ora_fra/dataextract/hyperion/extract_spe.ksh
>/ora_fra/dataextract/hyperion/extract_spe.out 2>&1

#Rakesh
30 4 * * * /ora_fra/dataextract/rakesh/test.ksh >/ora_fra/dataextract/rakesh/test.out 2>&1
```

codadb1:oracle@/home/oracle>cat /home/oracle/script/db_space_rpt.ksh

```
#!/usr/bin/ksh

Rpt=$HOME/report/tbl_usage.out

. $HOME/.profile

cd $HOME/sql

sqlplus /nolog @tbl_usage.sql > $Rpt

mail -s "Oracle Database Space Usage Report @ `date`" ""@cweb.com <$Rpt
```

codadb1:oracle@/home/oracle/script>cat db_userRpt.ksh

```
#!/usr/bin/ksh

Rpt=$HOME/report/mon_user.out

. $HOME/.profile

cd $HOME/sql

VG_status=`lsvg -o|grep -E "dbvg|fravg"`
if [[ $? -ne 0 ]]
then
   echo "Database VG is not found on this NODE `hostname` ...\n"
   echo "User Audit will be skipped @ `date` ...\n"
exit 1
fi

sqlplus / as sysdba @audit_purge.sql > $Rpt

mail -s "`hostname`: Oracle Database User Access Report @ `date`" ""@cweb.com <$Rpt
```

codadb1:oracle@/home/oracle/sql>cat audit_purge.sql

```
delete from aud$ where ntimestamp# < systimestamp - 7;

quit;
```

codadb1:oracle@/home/oracle/script>cat db_full_backup.ksh

```
#!/usr/bin/ksh

Rpt=$HOME/report/backup_rpt.out

. $HOME/.profile

VG_status=`lsvg -o|grep -E "dbvg|fravg"`
if [[ $? -ne 0 ]]
then
   echo "Database VG is not found on this NODE `hostname` ...\n"
   echo "Oracle db backup will be skipped @ `date` ...\n"
exit 1
fi

echo " ========================\n"
date

cd /ora_fra/CODAPROD/dbbackup
rm -fe /ora_fra/CODAPROD/dbbackup/*

cd $HOME/sql

DB_status=`sqlplus / as sysdba @db_status.sql|grep 'ACTIVE'`

if [[ $? -ne 0 ]]
then
   echo "Oracel DB is not UP, backup will quit ...."
   mail -s "CODAPROD ALARM : DB backup failed due to DB is not up @ `date`" ""@cweb.com
</dev/null
exit 1
fi

rman TARGET / < db_full_backup.rman > $Rpt

#Also clean the trace log;
find /u01/app/oracle/diag/rdbms/codaprod/codaprod/trace -name "*.trc" -mtime +3 -exec rm
-f {} \;
find /u01/app/oracle/diag/rdbms/codaprod/codaprod/trace -name "*.trm" -mtime +3 -exec rm
-f {} \;
find /u01/app/oracle/diag/tnslsnr/codadb1/listener/alert -name "*.xml" -mtime +7 -exec rm
-f {} \;
find /u01/app/oracle/admin/codaprod/adump -name "*.aud" -mtime +30 -exec rm -f {} \;

mail -s "CODAPROD : Oracle Daily Backup Report @ `date`" ""@cweb.com <$Rpt
```

codadb1:oracle@/home/oracle/script>cat db_rcp.ksh

```
#!/usr/bin/ksh

#copy DB backup to reporting server;
echo "=== Start RCP process on `hostname` @ `date` ..."

rcp -p /ora_fra/CODAPROD/autobackup/* codarpt:/ora_fra/CODAPROD/autobackup
rcp -p /ora_fra/CODAPROD/dbbackup/* codarpt:/ora_fra/CODAPROD/dbbackup
```

```
       echo "=== RCP process is completed on `hostname` @ `date` ..."
```

codadb1:oracle@/home/oracle/script>cat codarpt_job.ksh

```
       #!/usr/bin/ksh

       . $HOME/.profile

       typeset count=0

       while [[ $count -lt 18 ]]
       do
        cd $HOME/sql
        flag=`sqlplus codauser/codaliv@codaprod @verify_flag.sql|grep "NIGHTLY"|awk '{print
       $2}'`
        if [[ $flag == 'Y' ]]
          then
             #echo "*** `date` : Nightly job is completed ...., going to create special backup
       ...\n"
             sqlplus codauser/codaliv@codaprod @verify_flag.sql
             echo "*** `date` : Nightly job is completed ...., going to move archive logs ...\n"

       sqlplus / as sysdba<<EOF
       alter system archive log all;
       alter system archive log current;
       quit;
       EOF

             rcp -p /ora_fra/oradata/codaprod/archivelog/*
       codarpt:/ora_fra/oradata/codaprod/archivelog

             touch /ora_fra/CODAPROD/dbbackup/rcp.done
             rcp /ora_fra/CODAPROD/dbbackup/rcp.done codarpt:/ora_fra/CODAPROD/dbbackup
             break
        fi

        echo "=== `date` : Nightly job is not completed, continue to wait ...\n"
        sleep 300
        count=$(($count+1))
       done

       sleep 300

       #reset job flag;
       cd $HOME/sql
       sqlplus codauser/codaliv@codaprod @reset_flag.sql

       rm -rf /ora_fra/CODAPROD/dbbackup/rcp.done

       if [[ $count -eq 18 ]]
          then
              echo "Backup windows missed, exits program ...\n"
              mail -s "ALERT: CODAPROD BACKUP windows missed ..." ""@cweb.com</dev/null
       fi
```

codadb1:oracle@/home/oracle/script>cat reset_flag.ksh

```
#!/usr/bin/ksh

. $HOME/.profile

cd $HOME/sql
sqlplus codauser/codaliv@codaprod @reset_flag.sql
```

codadb1:oracle@/home/oracle/sql>cat tbl_usage.sql

```
CONN / as sysdba;

select b.tablespace_name, tbs_size SizeMb, a.free_space FreeMb
from
(select tablespace_name, round(sum(bytes)/1024/1024 ,2) as free_space
from dba_free_space group by tablespace_name) a,
(select tablespace_name, sum(bytes)/1024/1024 as tbs_size
from dba_data_files group by tablespace_name
UNION
select tablespace_name, sum(bytes)/1024/1024 tbs_size
from dba_temp_files
group by tablespace_name ) b
where a.tablespace_name(+)=b.tablespace_name;

exit;
```

codadb1:oracle@/home/oracle/sql>cat verify_flag.sql

```
select * from job_status where job_name='NIGHTLY';
quit;
codadb1:oracle@/home/oracle/sql>
```

codadb1:oracle@/home/oracle/script>cat /home/oracle/script/db_stat.ksh

```
#!/usr/bin/ksh

date

. $HOME/.profile

cd $HOME/sql

echo "Start the Schema Stat ....\n"

time sqlplus / as sysdba @schema_stat.sql

echo "@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@\n\n"
echo "Start the System Stat ....\n"

time sqlplus / as sysdba @sys_stat.sql

echo "System Stat is completed .....\n"

echo "==================================================\n\n"
```

codadb1:oracle@/home/oracle>cat /home/oracle/script/statpack.ksh

```
#!/usr/bin/ksh

. $HOME/.profile
```

```
sqlplus perfstat/perfstat@codaprod<<EOF
exec statspack.snap(i_snap_level=>5);
quit;
EOF
```

codadb1:oracle@/home/oracle/script>cat /ora_fra/dataextract/aging/aging.ksh

```
#!/usr/bin/ksh

. $HOME/.profile

DATE=`date +%Y%m%d`
cd /ora_fra/dataextract/aging

echo "*****  Aging Report is started @ `date`  *****\n"

time sqlplus -S codauser/codaliv @aging.sql
time sqlplus -S codauser/codaliv @unload.sql

cat header >aging_$DATE.txt
cat aging.temp>>aging_$DATE.txt

echo "*****  Aging Report is completed @ `date`  *****\n"

ftp -v -n 10.253.129.20<<!
    user FTPExtract GotoHyp_130
    bin
    cd aging
    put aging_$DATE.txt aging_$DATE.txt.tmp
    rename aging_$DATE.txt.tmp aging_$DATE.txt
    quit
!

echo "***** FTP Aging Report is completed @ `date`  *****\n"

find ./ -name "*.txt" -mtime +7 -exec rm {} \;
```

codadb1:oracle@/home/oracle/sql>cat tbl_usage.sql

```
CONN / as sysdba;

select b.tablespace_name, tbs_size SizeMb, a.free_space FreeMb
from
(select tablespace_name, round(sum(bytes)/1024/1024 ,2) as free_space
from dba_free_space group by tablespace_name) a,
(select tablespace_name, sum(bytes)/1024/1024 as tbs_size
from dba_data_files group by tablespace_name
UNION
select tablespace_name, sum(bytes)/1024/1024 tbs_size
from dba_temp_files
group by tablespace_name ) b
where a.tablespace_name(+)=b.tablespace_name;

exit;
```

codadb1:oracle@/home/oracle/sql>cat startdb.sql

```
startup;
exit;
```

codadb1:oracle@/home/oracle/sql>cat stopdb.sql

```
shutdown immediate;
exit;
```

codadb1:oracle@/home/oracle/sql>cat sys_stat.sql

```
exec dbms_stats.gather_system_stats();

exit;
```

codadb1:oracle@/home/oracle/sql>cat db_full_backup.rman

```
set echo off;
backup database;
backup archivelog all delete all input;
allocate channel for maintenance type disk;
delete noprompt obsolete device type disk;
release channel;
list backup completed between 'SYSDATE-1' and 'SYSDATE';
exit;
```

codadb1:oracle@/home/oracle/sql>cat db_inc_backup.rman

```
set echo off;
backup archivelog all delete all input;
allocate channel for maintenance type disk;
delete noprompt obsolete device type disk;
release channel;
list backup completed between 'SYSDATE-1' and 'SYSDATE';
exit;
```

codadb1:oracle@/home/oracle/sql>cat clean_session.sql

```
conn / as sysdba;

TRUNCATE TABLE codauser.com_session_snap;
quit;
```

codadb1:oracle@/home/oracle/sql>cat codarpt.rman

```
connect target /
backup database;
backup archivelog all;
list backup;
exit;
```

codadb1:oracle@/home/oracle/sql>cat ctrl_backup.rman

```
connect target /
run {
host 'rm /home/oracle/ctrl_bkup/BACKUP_control.ctl';
sql "alter database backup controlfile to ''/home/oracle/ctrl_bkup/BACKUP_control.ctl''";
}
```

```
       exit;

codadb1:oracle@/home/oracle/sql>cat db_status.sql
       COLUMN STATUS heading INSTANCE_STATUS
       COLUMN INSTANCE_NAME format A15
       COLUMN HOST_NAME format A10
       COLUMN STARTUP_TIME format A15
       COLUMN STATUS format A15
       COLUMN DATABASE_STATUS format A15

       select INSTANCE_NAME,HOST_NAME,STARTUP_TIME,STATUS,DATABASE_STATUS
       from v$instance;
       exit;

codadb1:oracle@/home/oracle/sql>cat reset_flag.sql
       update job_status set flag='N' where job_name='NIGHTLY';
       quit;

codadb1:oracle@/home/oracle/sql>cat verify_flag.sql
       select * from job_status where job_name='NIGHTLY';
       quit;

root@codadb1:/># cat /usr/local/scripts/codadb1_rsync_dr
       #!/usr/bin/ksh93

       #   Script written by Dave Benvie CGI
       #   This script rsync's file systems/directories identified by
       #   Livingston Internation to be kept in syncronization with their current
       #   DR partitions.
       #   codaapp1

       RSYNC_LIST='/coda'

       PDC_IP='10.153.255.212'

       LOG=/usr/local/logs/rsync/codadb1_rsync_log`date +%Y"-"%m"-"%d`

       for i in $RSYNC_LIST
       do
          echo "Starting rsync for file system $i `date`" >> $LOG
          echo "Statistics of syncronization below" >> $LOG
          echo >> $LOG
          rsync -acvps --del $i/ root@$PDC_IP:$i >> $LOG
          RESULT=${?}
          echo "${RESULT}" >/tmp/rsyncStatus.$(uname -n)
          echo >> $LOG
          echo "Finished syncronizarions for file system $i." >> $LOG
          echo "##################################################" >> $LOG
          echo  >> $LOG
       done

codadb1:"^@/home/"^/>more /home/"^/perl/mon_alert.pl
       #!/usr/bin/perl

       #Verify Active Node?
```

```
if ( !`lsvg -o|grep fravg` )
{
  print "Not an active node ...!\n";
  exit 1;
}

#Check to see how to use localtime function;
$Source = "/u01/app/oracle/diag/rdbms/codaprod/codaprod/trace/alert_codaprod.log";
$TodayLog = "/home/”˜/temp/today_alert.log";
$ErrLog = "/home/”˜/temp/ora_error.log";

#Get time stamp;
($sec,$min,$hour,$mday,$mon,$year,$wday,$yday,$isdst) = localtime(time);

%weekday=(
          0=>'Sun',
          1=>'Mon',
          2=>'Tue',
          3=>'Wed',
          4=>'Thu',
          5=>'Fri',
          6=>'Sat',
          );
%month=(
        0=>'Jan',
        1=>'Feb',
        2=>'Mar',
        3=>'Apr',
        4=>'May',
        5=>'Jun',
        6=>'Jul',
        7=>'Aug',
        8=>'Sep',
        9=>'Oct',
       10=>'Nov',
       11=>'Dec',
       );
$year += 1900;
print "Year of : $year \n";
print "Month of the year : $month{$mon} $mon    \n";
print "Day of the Week : $weekday{$wday}\n";

if ( $mday < 10 )
 {
   $mday=sprintf ("0%d",$mday);
#   print "Today is : $mday \n";
 }

$time=sprintf("%3s %3s %2s",$weekday{$wday},$month{$mon},$mday);
#print "Time Stamp is : $time \n";

#Main ;
open (OUTFILE,">$TodayLog");
open (LOGFILE,"$Source")||die " Open Files Failed ... ";
```

```
#Set today flag;
$flag=0;

#Begin Processing the online log file;
while (<LOGFILE>)
  {
    if ( /$time/ )
       {
        $flag = 1;
         }
    if ( $flag == 1 )
       {
        print OUTFILE $_;
        };
     }
close LOGFILE;
close OUTFILE;

open (OUTFILE,">$ErrLog");
open (LOGFILE,"$TodayLog")||die " Open Files Failed ... ";

while(<LOGFILE>)
  {
    if ( /ORA-/ or /[e|E]rror/ )
       {
         print OUTFILE $temp;
         print OUTFILE $_;
         while(<LOGFILE>)
           {
            if ( /$time/ )
              { $temp = $_;
                last;
                }
            else
              { print OUTFILE $_;}
            }
       }
    else
      { $temp = $_;}
   }

close LOGFILE;
close OUTFILE;

if ( -s $ErrLog )
  {
    `mail -s "Oracle Alarm on CODAPROD $year-$month{$mon}-$mday !!!" ""\@cweb.com <
$ErrLog`
  }
```

codadb1:""@/home/""/>cat /home/""/script/mon_dbSpace.ksh

```
#!/usr/bin/ksh

for tbl in CODATBL CODAIDX
  do
```

```
        size=`grep $tbl /home/oracle/report/tbl_usage.out|awk '{print $3}'`
        if [[ $size -lt 30720 ]]
          then
              mail -s "!!! DB ALERT : Free Space on $tbl tablesoace is less than 30G !!!"
    ""@cweb.com</home/oracle/report/tbl_usage.out
        fi
    done

    size=`grep SYSTEM /home/oracle/report/tbl_usage.out|awk '{print $3}'`
    if [[ $size -lt 512 ]]
      then
        mail -s "!!! DB ALERT : Free Space on SYSTEM tablesoace is less than 512M !!!"
    ""@cweb.com</home/oracle/report/tbl_usage.out
        fi
codadb1:oracle@/home/oracle/script>act /hyperion/extract_spe.ksh
    #!/usr/bin/ksh

    . $HOME/.profile

    set -A MailList ""@cweb.com \
                    jbaptist@cweb.com \
                    bghuman@cweb.com \
                    druddock@cweb.com \
                    jstewart@cweb.com \
                    asunga@cweb.com \
                    pwoods@cweb.com \
                    rsullivan@cweb.com

    cd /ora_fra/dataextract/hyperion

    YEAR=`date +%Y`
    MON=`date +%m`
    PERIOD=`date +%m|sed 's/0*//'`
    OUTPUT=$YEAR$MON.txt

    rm -rf *.dat

    #Non-spe
    cd /ora_fra/dataextract/hyperion/non-spe
    sqlplus -S codauser/codaliv@codaprod @part1.mod.sql $YEAR $PERIOD
    sqlplus -S codauser/codaliv@codaprod @part2.mod.sql $YEAR $PERIOD
    sqlplus -S codauser/codaliv@codaprod @part3.mod.sql $YEAR $PERIOD
    sqlplus -S codauser/codaliv@codaprod @part4.mod.sql $YEAR $PERIOD

    #Spe
    cd /ora_fra/dataextract/hyperion/spe
    sqlplus -S codauser/codaliv@codaprod @part1.mod.sql $YEAR $PERIOD
    sqlplus -S codauser/codaliv@codaprod @part2.mod.sql $YEAR $PERIOD
    sqlplus -S codauser/codaliv@codaprod @part3.mod.sql $YEAR $PERIOD
    sqlplus -S codauser/codaliv@codaprod @part4.mod.sql $YEAR $PERIOD

    #Final
    cd /ora_fra/dataextract/hyperion
    echo $YEAR >$OUTPUT
    echo $PERIOD >>$OUTPUT
```

```
echo $PERIOD >>$OUTPUT
cat /ora_fra/dataextract/hyperion/non-spe/part1.out >>$OUTPUT
cat /ora_fra/dataextract/hyperion/non-spe/part2.out >>$OUTPUT
cat /ora_fra/dataextract/hyperion/non-spe/part3.out >>$OUTPUT
cat /ora_fra/dataextract/hyperion/non-spe/part4.out >>$OUTPUT
cat /ora_fra/dataextract/hyperion/spe/part1.out >>$OUTPUT
cat /ora_fra/dataextract/hyperion/spe/part2.out >>$OUTPUT
cat /ora_fra/dataextract/hyperion/spe/part3.out >>$OUTPUT
cat /ora_fra/dataextract/hyperion/spe/part4.out >>$OUTPUT

echo "*****  Data extraction is completed @ `date`  *****\n"

#ftp the output file;
ftp -v -n 10.253.129.20<<!
    user FTPExtract GotoHyp_130
    bin
    put $OUTPUT $OUTPUT.temp
    rename $OUTPUT.temp $OUTPUT
    quit
!

rm -rf /ora_fra/dataextract/hyperion/spe/part*.out
rm -rf /ora_fra/dataextract/hyperion/non-spe/part*.out

echo "*****  Ftp process is completed @ `date`  *****\n"
echo "================================================\n"

mail -s "Daily Hyperion Extract is completed." ${MailList[*]} </dev/null
```

codarpt:

Job	Frequency	Location	email
NIM MKSYSB	Weekly	/usr/local/scripts/client.mksysb.ksh	""
CFG2HTML report	Weekly	/usr/local/scripts/cfg2html -1 -o /tmp -e 1 > /tmp/cfg2html_aix_log.txt 2>&1	""
Rsync to DR	Daily	/usr/local/scripts/codadb1_rsync_dr	""
system error monitor	Daily	/coda/codarpt/monitor/alertDog.ksh	""
Reporting Database	Daily	/home/oracle/script/db_clean.ksh /home/oracle/script/restore.ksh	""
Finance Report	Monthly	/ora_fra/dataextract/pwc_monthly/extract_pwc_monthly.ksh	""
	Monthly	/ora_fra/dataextract/gst/extract_gst.ksh /ora_fra/dataextract/revenue/monthly/revenue_monthly.ksh	

root@codarpt:/var/spool/cron/crontabs># cat oracle

```
##Db space report;
##5 1 * * * /home/oracle/script/db_space_rpt.ksh >>/home/oracle/report/db_space_rpt.log 2>&1

#Db daily backup;
##1 23 * * * /home/oracle/script/db_backup.ksh >/home/oracle/report/db_backup_rpt.log 2>&1

#Reporting Database;
1 1 * * * /home/oracle/script/db_clean.ksh >> /home/oracle/report/db_clean.out 2>&1
1 5 * * * /home/oracle/script/restore.ksh >/home/oracle/report/restore.log 2>&1
```

```
#
1 10 7 * * /ora_fra/dataextract/pwc_monthly/extract_pwc_monthly.ksh >
/ora_fra/dataextract/pwc_monthly/extract_pwc_monthly.out 2>&1
1 8 15 * * /ora_fra/dataextract/gst/extract_gst.ksh > /ora_fra/dataextract/gst/extract_gst.out
2>&1
1 9 15 * * /ora_fra/dataextract/revenue/monthly/revenue_monthly.ksh > /dev/null 2>&1
```

codarpt:oracle@/home/oracle$cat daily.env

```
PATH=/usr/bin:/etc:/usr/sbin:/usr/ucb:$HOME/bin:/usr/bin/X11:/sbin:.

export PATH


if [ -s "$MAIL" ]           # This is at Shell startup.  In normal
then echo "$MAILMSG"        # operation, the Shell checks
fi                          # periodically.

set -o vi

export PS1=`hostname`:'$USER'@'$PWD'\$

alias rm='rm -i'

ORACLE_BASE=/u01/app/oracle
export ORACLE_BASE

ORACLE_SID=codaprod
export ORACLE_SID

ORACLE_OWNER=oracle
export ORACLE_OWNER

ORACLE_HOME=/u01/app/oracle/product/11.2.0/dbhome_1
export ORACLE_HOME

AIXTHREAD_SCOPE=S; export AIXTHREAD_SCOPE

ORACLE_HOSTNAME=codarptapp
export ORACLE_HOSTNAME

LD_LIBRARY_PATH=$ORACLE_HOME/lib
export LD_LIBRARY_PATH

export ORACLE_UNQNAME=codarpt

NLS_LANG=American_America.WE8MSWIN1252
export NLS_LANG

#PATH=/usr/bin:/etc:/usr/sbin:/usr/ucb:$HOME/bin:/usr/bin/X11:/sbin:/u01/local/bin:/u01/a
pp/oracle/OraHome_2/bin:/u01/app/oracle/Ora
Home_2/jdk/jre/bin:.
```

```
PATH=/usr/bin:/etc:/usr/sbin:/usr/ucb:$HOME/bin:/usr/bin/X11:/sbin:/u01/local/bin:$ORACLE
_HOME/bin:$ORACLE_HOME/jdk/jre/bin:.

export PATH
```

codarpt:oracle@/home/oracle$cat monthly.env

```
PATH=/usr/bin:/etc:/usr/sbin:/usr/ucb:$HOME/bin:/usr/bin/X11:/sbin:.

export PATH


if [ -s "$MAIL" ]           # This is at Shell startup.  In normal
then echo "$MAILMSG"        # operation, the Shell checks
fi                          # periodically.

set -o vi

export PS1=`hostname`:'$USER'@'$PWD'\$

alias rm='rm -i'

ORACLE_BASE=/u02/app/oracle
export ORACLE_BASE

ORACLE_SID=monthrpt
export ORACLE_SID

ORACLE_OWNER=oracle
export ORACLE_OWNER

ORACLE_HOME=/u02/app/oracle/product/11.2.0/dbhome_1
export ORACLE_HOME

AIXTHREAD_SCOPE=S; export AIXTHREAD_SCOPE

ORACLE_HOSTNAME=codarptapp
export ORACLE_HOSTNAME

LD_LIBRARY_PATH=$ORACLE_HOME/lib
export LD_LIBRARY_PATH

export ORACLE_UNQNAME=codarpt

NLS_LANG=American_America.WE8MSWIN1252
export NLS_LANG

PATH=/usr/bin:/etc:/usr/sbin:/usr/ucb:$HOME/bin:/usr/bin/X11:/sbin:/u02/local/bin:$ORACLE
_HOME/bin:$ORACLE_HOME/jdk/jre/bin:.

export PATH
```

root@codarpt:/var/spool/cron/crontabs># cat /home/oracle/script/db_clean.ksh

```
#!/usr/bin/ksh
```

```
        #Clean up the environment;

        echo " ===== `date` =====\n"

        df -g |grep "/ora_fra"

        echo " --- Working on /ora_fra/CODAPROD/autobackup ...\n "
        cd /ora_fra/CODAPROD/autobackup
        rm -fe *

        echo " --- Working on /ora_fra/CODAPROD/dbbackup ...\n "
        cd /ora_fra/CODAPROD/dbbackup
        ls -l
        rm -fe *

        echo " --- Working on /ora_fra/oradata/codaprod ...\n "
        cd /ora_fra/oradata/codaprod/archivelog
        rm -fe *

        df -g |grep "/ora_fra"

        echo " ===== Clean done ... =====\n"

root@codarpt:/var/spool/cron/crontabs># cat /home/oracle/script/restore.ksh
        #!/usr/bin/ksh

        Rpt=$HOME/report/restore.out

        echo " ===== `date` ====="

        . $HOME/daily.env

        export NLS_DATE_FORMAT="Mon DD YYYY HH24:MI:SS"

        typeset count=0

        while [[ $count -lt 36 ]]
        do
         if [[ -a /ora_fra/CODAPROD/dbbackup/rcp.done ]]
           then
              echo "Found TOKEN file, going to run the restore ...\n"
              cd $HOME/sql
              rman @restore.rman > $Rpt
              break
         fi
         echo "`date`: No TOKEN file found , continue to wait ...\n"
         sleep 300
         count=$(($count+1))
         if [[ $count -eq 36 ]]
            then
               echo "Restore windows missed, exits program ...\n"
               mail -s "WARNING: Reporting Database is available but the data is not up to date
        due to no backup copy to restore...@ `date`"
         codaadmin@cweb.com</dev/null
```

```
#       mail -s "There is no DB copy available to restore ... Restore skipped ... @
`date`" ""@cweb.com</dev/null
       exit 1
 fi
done

sqlplus / as sysdba<<EOF
alter database open resetlogs;
shutdown immediate;
EOF

rm -rf /ora_temp/*.dbf

sqlplus / as sysdba<<EOF
startup;
EOF

sqlplus / as sysdba @$HOME/sql/conn_test.sql|grep "OPEN"
if [[ $? -ne 0 ]]
 then
  mail -s " ** WARNING: Reporting DB is not availble, please check.. @`date` **"
""@cweb.com</dev/null
  exit 1
fi

#set flag for unmatch job
#touch /ora_fra/dataextract/unmatch/restore.done

find /u01/app/oracle/diag/rdbms/codaprod/codaprod/trace  -name "*.trc" -mtime +3 -exec rm
-f {} \;
find /u01/app/oracle/diag/rdbms/codaprod/codaprod/trace  -name "*.trm" -mtime +3 -exec rm
-f {} \;
find /u01/app/oracle/admin/codaprod/adump -name "*.aud" -mtime +30 -exec rm -f {} \;

#mail -s "Reporting Database is available now ... @ `date`" codaadmin@cweb.com </dev/null
mail -s "CODARPT : Daily Restore Report @ `date` on `hostname`" ""@cweb.com <$Rpt
```

codarpt:oracle@/ora_fra/dataextract/hyperion$cat extract.ksh

```
#!/usr/bin/ksh

. $HOME/daily.env

cd /ora_fra/dataextract/hyperion

echo "================================================\n"
echo "Date : `date`"
echo "Report Year : $1"
echo "Report Period : $2"
echo "Email Address : $3\n"
echo "================================================\n"

rm -rf *.dat

if [[ $2 -lt 10 ]]
then
```

```
  OUTPUT=${1}0${2}.dat
else
  OUTPUT=${1}${2}.dat
fi

#Non-spe
cd /ora_fra/dataextract/hyperion/non-spe
sqlplus -S codauser/codaliv@codaprod @part1.mod.sql $1 $2
sqlplus -S codauser/codaliv@codaprod @part2.mod.sql $1 $2
sqlplus -S codauser/codaliv@codaprod @part3.mod.sql $1 $2
sqlplus -S codauser/codaliv@codaprod @part4.mod.sql $1 $2

#Spe
cd /ora_fra/dataextract/hyperion/spe
sqlplus -S codauser/codaliv@codaprod @part1.mod.sql $1 $2
sqlplus -S codauser/codaliv@codaprod @part2.mod.sql $1 $2
sqlplus -S codauser/codaliv@codaprod @part3.mod.sql $1 $2
sqlplus -S codauser/codaliv@codaprod @part4.mod.sql $1 $2

#Final
cd /ora_fra/dataextract/hyperion
echo $1 >$OUTPUT
echo $2 >>$OUTPUT
echo $2 >>$OUTPUT
cat /ora_fra/dataextract/hyperion/non-spe/part1.out >>$OUTPUT
cat /ora_fra/dataextract/hyperion/non-spe/part2.out >>$OUTPUT
cat /ora_fra/dataextract/hyperion/non-spe/part3.out >>$OUTPUT
cat /ora_fra/dataextract/hyperion/non-spe/part4.out >>$OUTPUT
cat /ora_fra/dataextract/hyperion/spe/part1.out >>$OUTPUT
cat /ora_fra/dataextract/hyperion/spe/part2.out >>$OUTPUT
cat /ora_fra/dataextract/hyperion/spe/part3.out >>$OUTPUT
cat /ora_fra/dataextract/hyperion/spe/part4.out >>$OUTPUT

echo "*****  Data extraction is completed @ `date`  *****\n"

#ftp the output file;

#ftp -v -n 10.253.129.20<<!
#    user FTPExtract GotoHyp_130
#    bin
#    put $OUTPUT $OUTPUT.temp
#    rename $OUTPUT.temp $OUTPUT
#    quit
#!
#
rm -rf /ora_fra/dataextract/hyperion/non-spe/part*.out
rm -rf /ora_fra/dataextract/hyperion/spe/part*.out

#echo "*****  Ftp process is completed @ `date`  *****\n"
#echo "================================================\n"

mail -s "Hyperion data is ready for YEAR: $1, Period: $2." $3 </dev/null
```

codarpt:oracle@/home/oracle$cat /ora_fra/dataextract/pwc_monthly/extract_pwc_monthly.ksh

```
#!/usr/bin/ksh
```

```
. $HOME/daily.env

DATE=`date +%Y%m`

cd /ora_fra/dataextract/pwc_monthly

echo "***** PWC Monthly Data extraction is started @ `date`  *****\n"

DATE=`date +%Y%m`

mkdir $DATE

#cmplist="C325 U125 H125 U135 U165 H145 E135 C310 E120 U140 F425 U250 E250 U255 U275 C165
C180 U260 E265 E260 U265 E255 U175 E175 G1
30 U235 U190 C320 C335 E185 U130 E190 E310 E335 E345 P325 P140 P315 H135 P330 P130 F340
P135 B310 E245 U245 U240 E340 E360 C360 U270
 C170 F335 E365 C155 E355 U155 C175 C100 F325 E195 E145 C135 U170 E270 E275 E125 E375
C110 C115 C120 C130 C140 C185 F000 F100 F125 F
135 F150 F315 F320 F350 F415 F435 P100 P110 P310 C145 C160 F330 G350 H100 U150 U160 U230
E230  E240 E110 E115 E150 E155 E160 E215 E1
00 E105 E130 E140 E170 E330 E350 E385 E450 E485 E475 E165 E180"

#cmplist="C165"

#for cmp in $cmplist

sqlplus codauser/codaliv @get_cmp.sql

for cmp in `cat cmp.lst`
  do
    echo "\n doing job for company : $cmp"
#    time sqlplus -S codauser/codaliv @pwc_monthly.sql $cmp 11
    time sqlplus -S codauser/codaliv @pwc_monthly.sql $cmp
  done

mv *.txt $DATE
cd $DATE

echo "***** PWC Monthly Data extraction is completed on `hostname` @ `date`  *****\n"
mail -s "***** PWC Monthly Data extraction is completed on `hostname` @ `date`  *****\n"
""@cweb.com</dev/null

#
ftp -v -n 192.168.250.11<<!
    user AUDCODA CODA_1209
    bin
    cd datacoda
    mkdir $DATE
    prompt
    cd $DATE
    mput *.txt
    quit
!
```

```
cd /ora_fra/dataextract/pwc_monthly
rm -rf $DATE
```

codarpt:oracle@/ora_fra/dataextract/pwc_monthly$cat get_cmp.sql

```
set pagesize 0
set echo off;
set term off;
set feedback off;
set verify off;

spool cmp.lst
select unique cmpcode from oas_dochead order by cmpcode;
spool off;
quit;
```

codarpt:oracle@/ora_fra/dataextract/pwc_monthly$cat pwc_monthly.sql

```
set pagesize 0;
set trimout on;
set trimspool on;
set linesize 600;
set echo off;
set term off;
set feedback off;
set verify off;

spool pwc_&&1\.txt;

select
'COMPANY|compname|DOCCODE|DOCNUM|DOCLINENUM|USERNAME|AUTHUSER|ORIGUSER|INPDATE|INPTIME|YE
AR|PERIOD|DOCDATE|GL|BU_DIV_REG|BRCH
_TEAM_DEPT|LOC|VENDOR_CLIENT|CER|EXTREF1|EXTREF2|EXTREF3|EXTREF4|EXTREF5|EXTREF6|DOCVALUE
|DOCCURR|HOMEVALUE|HOMECUR|DUALVALUE|DUALCU
R|EL1_CURCODE|EL1_VALUE|EL2_curcode|EL2_value|EL3_curcode|EL3_value|EL4_curcode|EL4_value
|EL5_CURCODE|EL5_VALUE|EL6_CURCODE|EL6_VALU
E|DEB_CRED_IND|MATCHREF|STATPAYINT|PARTPAYMENT|MODDATE' from dual;

SELECT /*+OPT_PARAM('_optimizer_sortmerge_join_enabled','false')*/
  DH.CMPCODE||'|'|| C.name||'|'|| DH.DOCCODE||'|'|| DH.DOCNUM||'|'|| DL.DOCLINENUM||'|'||
  DH.USRNAME||'|'||DH.AUTHUSER||'|'||DH.ORIGUSER||'|'||
  DH.INPDATE||'|'|| DH.INPTIME||'|'||
  DH.YR||'|'|| DH.PERIOD||'|'||
  DH.DOCDATE||'|'||
  DL.EL1||'|'||
  DL.EL2||'|'||
  DL.EL3||'|'||
  DL.EL4||'|'||
  DL.EL5||'|'||
  DL.EL6||'|'||
  DL.REF1||'|'||
  DL.REF2||'|'||
  DL.REF3||'|'||
  DL.REF4||'|'||
  DL.REF5||'|'||
  DL.REF6||'|'||
```

```
  DL.VALUEDOC||'|'||
  DH.CURDOC||'|'||
  DL.VALUEHOME||'|'||
  C.HOMECUR||'|'||
  DL.VALUEDUAL||'|'||
  C.DUALCUR||'|'||
  CL.EL1_CURCODE||'|'|| EL1_VALUE||'|'||
  CL.EL2_curcode||'|'|| EL2_value||'|'||
  CL.EL3_curcode||'|'|| EL3_value||'|'||
  CL.EL4_curcode||'|'|| EL4_value||'|'||
  CL.EL5_CURCODE||'|'|| EL5_VALUE||'|'||
  CL.EL6_CURCODE||'|'|| EL6_VALUE||'|'||
  DL.DEB_CRED_IND||'|'||
  PL.MATCHREF||'|'||
  DL.STATPAYINT||'|'||
  PL.PARTPAYMENT||'|'||
  PL.MODDATE
 FROM OAS_DOCHEAD DH
  INNER JOIN OAS_DOCLINE DL
    ON DL.CMPCODE = DH.CMPCODE AND DL.DOCCODE = DH.DOCCODE AND DL.DOCNUM = DH.DOCNUM
  LEFT OUTER JOIN OAS_CURLINE CL
    ON DL.cmpcode = CL.cmpcode and DL.doccode = CL.doccode and DL.docnum = CL.docnum and
DL.doclinenum = CL.doclinenum
  LEFT OUTER JOIN OAS_PAYLINE PL
    ON PL.CMPCODE = DL.CMPCODE AND PL.DOCCODE = DL.DOCCODE AND PL.DOCNUM = DL.DOCNUM AND
PL.DOCLINENUM = DL.DOCLINENUM
  INNER JOIN OAS_COMPANY C
    ON C.CODE = DH.CMPCODE
  WHERE DH.CMPCODE = '&&1'
    AND DH.STATUS = 78
    AND DH.YR = TO_NUMBER(TO_CHAR(SYSDATE - 10,'YYYY'))
    AND DH.PERIOD = TO_NUMBER(TO_CHAR(SYSDATE - 10,'MM'))
    AND to_char(PL.MODDATE,'YYYY') = TO_CHAR(SYSDATE - 10,'YYYY')
    AND to_char(PL.MODDATE,'MM') = TO_CHAR(SYSDATE - 10,'MM');


spool off;

quit;
```

codarpt:oracle@/home/oracle$cat /ora_fra/dataextract/gst/extract_gst.ksh

```
#!/usr/bin/ksh

. $HOME/daily.env
#. $HOME/monthly.env

cd /ora_fra/dataextract/gst

echo "*****  GST Data extraction is started @ `date`  *****\n"

typeset -Z2 period
month=`date +%m`
year=`date +%Y`

period=$((month-1))
```

```
if (( month == 1));then
period=12
year=$((year-1))
fi

echo $year $period

time sqlplus -S codauser/codaliv @gst.sql $year $period

echo "*****  GST Data extraction is completed @ `date`  *****\n"

ftp -v -n 10.253.129.20<<EOF
    user FTPExtract GotoHyp_130
    cd gst
    put GST.out GST_${year}_${period}.txt.tmp
    rename GST_${year}_${period}.txt.tmp GST_${year}_${period}.txt
    quit
EOF

mail -s "*****  GST Data extraction is completed @ `date` on `hostname` [CGI] *****"
""@cweb.com</dev/null
```

codarpt:oracle@/home/oracle$cat /ora_fra/dataextract/revenue/monthly/revenue_monthly.ksh

```
#!/usr/bin/ksh

cd /ora_fra/dataextract/revenue/monthly

nohup ./revenue-C310.ksh>./revenue-C310.out 2>&1 &
nohup ./revenue-C165.ksh>./revenue-C165.out 2>&1 &
```

codarpt:oracle@/ora_fra/dataextract/revenue/monthly$cat revenue-C165.ksh

```
#!/usr/bin/ksh

. $HOME/daily.env

DATE=`date +%Y%m%d`

typeset -Z2 period
month=`date +%m`
year=`date +%Y`

period=$((month-1))

if (( month == 1));then
period=12
year=$((year-1))
fi

echo $year $period

cd /ora_fra/dataextract/revenue/monthly

echo "*****  Data extraction is started @ `date`  *****\n"
```

```
time sqlplus -S codauser/codaliv @revenue-C165.sql $year $period

echo "*****  Data extraction is completed @ `date`  *****\n"

#mv revenue_C165.lst revenue_C165-$year-$period.txt

echo "\n ==== Start FTP process `date` ....\n"

ftp -v -n 10.253.129.20<<EOF
    user FTPExtract GotoHyp_130
    cd gst
    put revenue_C165.lst revenue_C165-${year}-${period}.txt.tmp
    rename revenue_C165-${year}-${period}.txt.tmp revenue_C165-${year}-${period}.txt
    quit
EOF
```

codarpt:oracle@/ora_fra/dataextract/revenue/monthly$cat revenue-C310.ksh

```
#!/usr/bin/ksh

. $HOME/daily.env

DATE=`date +%Y%m%d`

typeset -Z2 period
month=`date +%m`
year=`date +%Y`

period=$((month-1))

if (( month == 1));then
period=12
year=$((year-1))
fi

echo $year $period

cd /ora_fra/dataextract/revenue/monthly

echo "*****  Data extraction is started @ `date`  *****\n"

time sqlplus -S codauser/codaliv @revenue-C310.sql $year $period

echo "*****  Data extraction is completed @ `date`  *****\n"

#mv revenue_C310.lst revenue_C310-$year-$period.txt

echo "\n ==== Start FTP process `date` ....\n"

ftp -v -n 10.253.129.20<<EOF
    user FTPExtract GotoHyp_130
    cd gst
    put revenue_C310.lst revenue_C310-${year}-${period}.txt.tmp
    rename revenue_C310-${year}-${period}.txt.tmp revenue_C310-${year}-${period}.txt
    quit
EOF
```

codarpt:oracle@/ora_fra/dataextract/revenue/monthly$cat revenue-C165.sql

```
set pagesize 0;
set trimout on;
set trimspool on;
set linesize 600;
set echo off;
set term off;
set feedback off;
set verify off;

spool revenue_C165.lst

SELECT /*+OPT_PARAM('_optimizer_sortmerge_join_enabled','false')*/
        DL.cmpcode|| ','||
        DL.el1|| ','||
        DL.el2|| ','||
        DL.el3|| ','||
        DL.el4|| ','||
        DL.el5|| ','||
        E.name|| ','||
        DL.doccode|| ','||
        DL.docnum|| ','||
        DL.doclinenum|| ','||
        DH.docdate|| ','||
        DH.yr|| ','||
        DH.period|| ','||
        DH.curdoc|| ','||
        DL.valuehome|| ','||
        DL.valuedual|| ','||
        DL.ref3|| ','||
        DL.ref4
FROM OAS_DOCHEAD DH
INNER JOIN OAS_DOCLINE DL
   ON DL.CMPCODE = DH.CMPCODE
  AND DL.DOCCODE = DH.DOCCODE
  AND DL.DOCNUM = DH.DOCNUM
LEFT OUTER JOIN OAS_ELEMENT E
  ON E.cmpcode = DL.cmpcode and E.elmlevel = 5 and E.code = DL.el5
WHERE DL.CMPCODE = 'C165'
  AND DH.STATUS = 78
  AND DH.YR = &&1
  AND DH.PERIOD = &&2
  AND DL.EL1 LIKE '4%'
  AND DL.EL4 LIKE '1011%';

spool off;

quit;
```

codarpt:oracle@/ora_fra/dataextract/revenue/monthly$cat revenue-C310.sql

```
set pagesize 0;
set trimout on;
set trimspool on;
set linesize 600;
```

```
set echo off;
set term off;
set feedback off;
set verify off;

spool revenue_C310.lst

SELECT /*+OPT_PARAM('_optimizer_sortmerge_join_enabled','false')*/
        DL.cmpcode|| ','||
        DL.el1|| ','||
        DL.el2|| ','||
        DL.el3|| ','||
        DL.el4|| ','||
        DL.el5|| ','||
        E.name|| ','||
        DL.doccode|| ','||
        DL.docnum|| ','||
        DL.doclinenum|| ','||
        DH.docdate|| ','||
        DH.yr|| ','||
        DH.period|| ','||
        DH.curdoc|| ','||
        DL.valuehome|| ','||
        DL.valuedual|| ','||
        DL.ref3|| ','||
        DL.ref4
FROM OAS_DOCHEAD DH
INNER JOIN OAS_DOCLINE DL
   ON DL.CMPCODE = DH.CMPCODE
  AND DL.DOCCODE = DH.DOCCODE
  AND DL.DOCNUM = DH.DOCNUM
LEFT OUTER JOIN OAS_ELEMENT E
  ON E.cmpcode = DL.cmpcode and E.elmlevel = 5 and E.code = DL.el5
WHERE DL.CMPCODE = 'C310'
  AND DH.STATUS = 78
  AND DH.YR = &&1
  AND DH.PERIOD = &&2
  AND DL.EL1 LIKE '4%'
  AND DL.EL4 LIKE '1011%';

spool off;

quit;
```

codarpt:oracle@/ora_fra/dataextract/hyperion/non-spe$cat part1.mod.sql

```
set pagesize 0;
set echo off;
set term off;
set feedback off;
set verify off;

spool part1.out;
select a.el3 || a.cmpcode || a.ccode || ',' || a.el1 || ',' || to_char(a.full_value)
from (select el3, cmpcode,
      CASE
```

```
            when curcode = 'CAD' then 'C'
            when curcode = 'USD' then 'U'
            when curcode = 'MXN' then 'M'
            when curcode = 'GBP' then 'P'
            when curcode = 'EUR' then 'E'
            when curcode = 'HKD' then 'H'
            when curcode = 'PLN' then 'Z'
            when curcode = 'CNY' then 'Y'
            when curcode = 'VIN' then 'R'
            ELSE substr(curcode,1,1)
            END as ccode,
            el1,
            CASE
            when substr(el1,1,1) in ('2','3','4')
                 then sum(full_value) * -1
            ELSE sum(full_value)
            END as full_value
            from CODAUSER.OAS_BALANCE
            where (cmpcode not like 'C%' and cmpcode not like 'U%'
                   and cmpcode != 'VCA' and cmpcode != 'VMX' and cmpcode != 'VUP' and cmpcode
      != 'VLUX' )
              and repbasis = 0
              and yr = &1
              and (period >= 0 and period <= &2 )
              and balcode = 'ACTUAL'
              and (el1 like '1%'
                   or el1 like '2%'
                   or el1 like '3%')
            group by el3,cmpcode,
              CASE
              when curcode = 'CAD' then 'C'
              when curcode = 'USD' then 'U'
              when curcode = 'MXN' then 'M'
              when curcode = 'GBP' then 'P'
              when curcode = 'EUR' then 'E'
              when curcode = 'HKD' then 'H'
              when curcode = 'PLN' then 'Z'
              when curcode = 'CNY' then 'Y'
              when curcode = 'VIN' then 'R'
              ELSE substr(curcode,1,1)
              END,
              el1) a
      /

      spool off;
      quit;
```

codarpt:oracle@/ora_fra/dataextract/hyperion/non-spe$cat part2.mod.sql

```
      set pagesize 0;
      set echo off;
      set term off;
      set verfiy off;
      set feedback off;

      spool part2.out;
```

```
select a.el3 || a.cmpcode || a.ccode ||','|| a.el1 || ',' || to_char(a.full_value)
from ( select el3, cmpcode,
         CASE
         when curcode = 'CAD' then 'C'
         when curcode = 'USD' then 'U'
         when curcode = 'MXN' then 'M'
         when curcode = 'GBP' then 'P'
         when curcode = 'EUR' then 'E'
         when curcode = 'HKD' then 'H'
         when curcode = 'PLN' then 'Z'
         when curcode = 'CNY' then 'Y'
         when curcode = 'VIN' then 'R'
         ELSE substr(curcode,1,1)
         END as ccode,
         el1,
         CASE
         when substr(el1,1,1) in ('2','3','4') then sum(full_value) * -1
         ELSE sum(full_value)
         END as full_value
         from CODAUSER.OAS_BALANCE
         where (cmpcode not like 'C%' and cmpcode not like 'U%'
                and cmpcode != 'VCA' and cmpcode != 'VMX' and cmpcode != 'VUP' and
cmpcode != 'VLUX' )
           and repbasis = 0
           and yr = &1
           and (period >= 1 and period <= &2)
           and balcode = 'ACTUAL'
           and (el1 like '4%'
               or el1 like '5%'
               or el1 like '6%')
         group by el3,cmpcode,
           CASE
           when curcode = 'CAD' then 'C'
           when curcode = 'USD' then 'U'
           when curcode = 'MXN' then 'M'
           when curcode = 'GBP' then 'P'
           when curcode = 'EUR' then 'E'
           when curcode = 'HKD' then 'H'
           when curcode = 'PLN' then 'Z'
           when curcode = 'CNY' then 'Y'
           when curcode = 'VIN' then 'R'
           ELSE substr(curcode,1,1)
           END,
           el1
          ) a
/

spool off;
quit;
```

codarpt:oracle@/ora_fra/dataextract/hyperion/non-spe$cat part3.mod.sql

```
set pagesize 0;
set echo off;
set feedback off;
```

```
set term off;
set verify off;

spool part3.out;

select a.el3 || a.cmpcode || a.ccode ||','|| '967010' || ',' || to_char(a.full_value)
from ( select el3, cmpcode,
         CASE
         when curcode = 'CAD' then 'C'
         when curcode = 'USD' then 'U'
         when curcode = 'MXN' then 'M'
         when curcode = 'GBP' then 'P'
         when curcode = 'EUR' then 'E'
         when curcode = 'HKD' then 'H'
         when curcode = 'PLN' then 'Z'
         when curcode = 'CNY' then 'Y'
         when curcode = 'VIN' then 'R'
         ELSE substr(curcode,1,1)
         END as ccode,
         sum(full_value) as full_value
         from CODAUSER.OAS_BALANCE
         where (cmpcode not like 'C%' and cmpcode not like 'U%'
                and cmpcode != 'VCA' and cmpcode != 'VMX' and cmpcode != 'VUP' and
cmpcode != 'VLUX' )
           and repbasis = 0
           and yr = &1
           and (period >= 1 and period <= &2)
           and balcode = 'TRANSACTIONS'
           and el1 like '967%'
         group by el3,cmpcode,
           CASE
           when curcode = 'CAD' then 'C'
           when curcode = 'USD' then 'U'
           when curcode = 'MXN' then 'M'
           when curcode = 'GBP' then 'P'
           when curcode = 'EUR' then 'E'
           when curcode = 'HKD' then 'H'
           when curcode = 'PLN' then 'Z'
           when curcode = 'CNY' then 'Y'
           when curcode = 'VIN' then 'R'
           ELSE substr(curcode,1,1)
           END
          ) a
/

spool off;
quit;
```

codarpt:oracle@/ora_fra/dataextract/hyperion/non-spe$cat part4.mod.sql

```
set pagesize 0;
set echo off;
set feedback off;
set term off;
set verify off;
```

```
spool part4.out;

select a.el3 || a.cmpcode || a.ccode ||','|| '901400' || ',' || to_char(a.full_value)
from ( select el3, cmpcode,
         CASE
         when curcode = 'CAD' then 'C'
         when curcode = 'USD' then 'U'
         when curcode = 'MXN' then 'M'
         when curcode = 'GBP' then 'P'
         when curcode = 'EUR' then 'E'
         when curcode = 'HKD' then 'H'
         when curcode = 'PLN' then 'Z'
         when curcode = 'CNY' then 'Y'
         when curcode = 'VIN' then 'R'
         ELSE substr(curcode,1,1)
         END as ccode,
         sum(full_value) as full_value
         from CODAUSER.OAS_BALANCE
         where (cmpcode not like 'C%' and cmpcode not like 'U%'
                and cmpcode != 'VCA' and cmpcode != 'VMX' and cmpcode != 'VUP' and
cmpcode != 'VLUX' )
           and repbasis = 0
           and yr = &1
           and (period >= 1 and period <= &2)
           and balcode = 'HEADCOUNT'
           and el1 like '901%'
         group by el3,cmpcode,
           CASE
           when curcode = 'CAD' then 'C'
           when curcode = 'USD' then 'U'
           when curcode = 'MXN' then 'M'
           when curcode = 'GBP' then 'P'
           when curcode = 'EUR' then 'E'
           when curcode = 'HKD' then 'H'
           when curcode = 'PLN' then 'Z'
           when curcode = 'CNY' then 'Y'
           when curcode = 'VIN' then 'R'
           ELSE substr(curcode,1,1)
           END
          ) a
/

spool off;
quit;
```

codarpt:oracle@/ora_fra/dataextract/monthend$cat monthend-1.ksh

```
#!/usr/bin/ksh

#. $HOME/daily.env
. $HOME/monthly.env

echo "==== Monthend job started @ `date`"

cd /ora_fra/dataextract/monthend
```

```
CODES="C165-DFA-UNBILLCD C165-DFA-UNBILLUS C165-FR-K84-DUTY C165-FR-UNPAID C310-DFA-
UNBILLCD C310-DFA-UNBILLUS C310-FR-K84-DUTY C310
-FR-UNPAID U125-DFA-UNPAID-DUTY U125-DFA-UNPAID-FREIGHT U125-DFA-UNBILLED"

#CODES="U125-DFA-UNPAID-FREIGHT"

for code in $CODES
do
echo "\n === Running job for : $code ===="
time sqlplus codauser/codaliv @$code.sql
done

#echo " === Start the ftp process on `hostname` @ `date` ..."
#ftp -v -n 10.253.129.20<<!
#    user FTPExtract GotoHyp_130
#    bin
#    prompt
#    cd cathy
#    mput *.txt
#    quit
#!
#echo " === Ftp process is completed on `hostname` @ `date` ..."

echo "==== Monthend job completed @ `date`"

mail -s "Monthend Job is now completed @ `date`, please stop CRON job !!!"
""@cweb.com</dev/null
```

codarpt:oracle@/ora_fra/dataextract/monthend$cat monthend.ksh

```
#!/usr/bin/ksh

. $HOME/daily.env
#. $HOME/monthly.env

echo "==== Monthend job started @ `date`"

cd /ora_fra/dataextract/monthend

CODES="C165-DFA-UNBILLCD C165-DFA-UNBILLUS C165-FR-K84-DUTY C165-FR-UNPAID C310-DFA-
UNBILLCD C310-DFA-UNBILLUS C310-FR-K84-DUTY C310
-FR-UNPAID U125-DFA-UNPAID-DUTY U125-DFA-UNPAID-FREIGHT U125-DFA-UNBILLED C310-DFA-212659
C165-DFA-212659"

for code in $CODES
do
echo "\n === Running job for : $code ===="
time sqlplus codauser/codaliv @$code.sql
done

echo " === Start the ftp process on `hostname` @ `date` ..."
ftp -v -n 10.253.129.20<<!
    user FTPExtract GotoHyp_130
    bin
    prompt
    cd cathy
```

```
        mput *.txt
        quit
    !
    echo " === Ftp process is completed on `hostname` @ `date` ..."

    echo "==== Monthend job completed @ `date`"

    mail -s "Monthend Job is now completed @ `date` !!!" ""@cweb.com</dev/null
    mail -s "Monthend Data is now ready @ `date`..." cgriffi@cweb.com</dev/null
    mail -s "Monthend Data is now ready @ `date`..." sreese@cweb.com</dev/null
```

codarpt:oracle@/ora_fra/dataextract/monthend$cat U125-DFA-UNPAID-FREIGHT.sql

```
    set pagesize 0;
    set trimout on;
    set trimspool on;
    set linesize 600;
    set echo off;
    set term off;
    set feedback off;

    spool U125-DFA-UNPAID-FREIGHT.txt;

    SELECT
    'CMPCODE|EL5|NAME|CURDOC|REF3|VALUEDOC|DOCDATE|REF2|REF1|EL6|REF5|REF4|REF6|EL1|EL2|EL3|S
    NAME|EL4|DOCCODE|DOCNUM|STATPAY|COMM
    ENTS' from dual;

    SELECT OAS_DOCHEAD.CMPCODE||'|'||
           OAS_DOCLINE.EL5||'|'||
           OAS_ELEMENT.NAME||'|'||
           OAS_DOCHEAD.CURDOC||'|'||
           OAS_DOCLINE.REF3||'|'||
           OAS_DOCLINE.VALUEDOC||'|'||
           OAS_DOCHEAD.DOCDATE||'|'||
           OAS_DOCLINE.REF2||'|'||
           OAS_DOCLINE.REF1||'|'||
           OAS_DOCLINE.EL6||'|'||
           OAS_DOCLINE.REF5||'|'||
           OAS_DOCLINE.REF4||'|'||
           OAS_DOCLINE.REF6||'|'||
           OAS_DOCLINE.EL1||'|'||
           OAS_DOCLINE.EL2||'|'||
           OAS_DOCLINE.EL3||'|'||
           OAS_ELEMENT_1.SNAME||'|'||
           OAS_DOCLINE.EL4||'|'||
           OAS_DOCHEAD.DOCCODE||'|'||
           OAS_DOCHEAD.DOCNUM||'|'||
           OAS_DOCLINE.STATPAY||'|'||
           OAS_DOCCLIST.COMM
    FROM OAS_DOCLINE
    LEFT JOIN OAS_DOCCLIST
      ON OAS_DOCLINE.CMPCODE = OAS_DOCCLIST.CMPCODE
     AND OAS_DOCLINE.DOCCODE = OAS_DOCCLIST.DOCCODE
     AND OAS_DOCLINE.DOCNUM = OAS_DOCCLIST.DOCNUM
     AND OAS_DOCLINE.DOCLINENUM = OAS_DOCCLIST.DOCLINENUM
```

```
LEFT JOIN OAS_ELEMENT
  ON OAS_DOCLINE.EL5 = OAS_ELEMENT.CODE
 AND OAS_DOCLINE.CMPCODE = OAS_ELEMENT.CMPCODE
LEFT JOIN OAS_DOCHEAD
  ON OAS_DOCLINE.DOCNUM = OAS_DOCHEAD.DOCNUM
 AND OAS_DOCLINE.DOCCODE = OAS_DOCHEAD.DOCCODE
 AND OAS_DOCLINE.CMPCODE = OAS_DOCHEAD.CMPCODE
LEFT JOIN OAS_ELEMENT OAS_ELEMENT_1
  ON OAS_DOCLINE.EL3 = OAS_ELEMENT_1.CODE
 AND OAS_DOCLINE.CMPCODE = OAS_ELEMENT_1.CMPCODE
WHERE OAS_DOCHEAD.CMPCODE = 'U125'
  AND (OAS_DOCLINE.EL1 = '212615'
       OR OAS_DOCLINE.EL1 = '212616'
       OR OAS_DOCLINE.EL1 = '212620'
       OR OAS_DOCLINE.EL1 = '212621'
       OR OAS_DOCLINE.EL1 = '212634'
       OR OAS_DOCLINE.EL1 = '212635'
       OR OAS_DOCLINE.EL1 = '212636'
       OR OAS_DOCLINE.EL1 = '212640'
       OR OAS_DOCLINE.EL1 = '212660')
  AND (OAS_DOCHEAD.DOCCODE = 'MIGRATEAPOPU'
       OR OAS_DOCHEAD.DOCCODE = 'SALE-PAY-USD'
       OR OAS_DOCHEAD.DOCCODE = 'JRNLFRT'
       OR OAS_DOCHEAD.DOCCODE = 'JRNLFRTAP'
       OR OAS_DOCHEAD.DOCCODE = 'APACQUIRED'
       OR OAS_DOCHEAD.DOCCODE = 'PAY-MAN-USF'
       OR OAS_DOCHEAD.DOCCODE = 'PAY-MAN-USC')
  AND (OAS_DOCLINE.STATPAY = 84
       OR OAS_DOCLINE.STATPAY = 93)
  AND OAS_ELEMENT.ELMLEVEL = 5
  AND OAS_ELEMENT_1.ELMLEVEL = 3
  AND OAS_DOCHEAD.STATUS = 78;

spool off;

quit;
```

codatest:

Job	Frequency	Location	email
NIM MKSYSB	Weekly	/usr/local/scripts/client.mksysb.ksh	""
CFG2HTML report	Weekly	/usr/local/scripts/cfg2html -1 -o /tmp -e 1 > /tmp/cfg2html_aix_log.txt 2>&1	""
Rsync to DR	Daily	/usr/local/scripts/codadb1_rsync_dr	""
system error monitor	Daily	/coda/codarpt/monitor/alertDog.ksh	""
Db monitor		/coda/codadb1/monitor/monProcess.ksh	
Db space report	Daily	/home/oracle/script/db_space_rpt.ksh	
Db backup	daily	/home/oracle/script/db_backup.ksh	
DB stat	Daily	/home/oracle/script/db_stat.ksh	

root@codatest:/var/spool/cron/crontabs># cat oracle

```
#Db space report;
5 6 * * * /home/oracle/script/db_space_rpt.ksh >>/home/oracle/report/db_space_rpt.log 2>&1

#Db daily backup;
```

```
1 23 * * * /home/oracle/script/db_backup.ksh >/home/oracle/report/db_backup_rpt.log 2>&1

#Db monitor;
#10 * * * * /coda/codadb1/monitor/monProcess.ksh >/admin/codadb1/monitor/monProcess.out 2>&1

#DB stat;
1 5 * * * /home/oracle/script/db_stat.ksh >> /home/oracle/report/db_stat.out 2>&1
```

root@codatest:/$ cat starttestdb.ksh

```
#!/usr/bin/ksh

#Created by "" Guo

export JAVA_HOME=/usr/java6_64/jre

PATH=/usr/bin:/etc:/usr/sbin:/usr/ucb:$HOME/bin:/usr/bin/X11:/sbin:/usr/vac/bin:$JAVA_HOM
E/bin:.


LogFile=/coda/codatest/bin/starttestdb.log

date > $LogFile
su - oracle >> $LogFile 2>&1 <<EOF
   echo "\n===  Start Oracle DB Server ...."
   sqlplus / as sysdba @/home/oracle/sql/startdb.sql
   if [ $? -ne 0 ]; then
      echo "problem to startup Oracle DB ..."
      exit 1
   fi
   sleep 5

   echo "\n===  Start Oracle Listener ...."
   lsnrctl start
   if [ $? -ne 0 ]; then
      echo "Problem to Start Oracle Listener ..."
      exit 1
   fi
   sleep 5

   echo "\n===  Start EM Console ...."
   emctl start dbconsole
   if [ $? -ne 0 ]; then
      echo "Problem to Start DB Console ..."
      exit 1
   fi
EOF

echo "\n===   Oracle Environment is Ready   ===\n"|tee -a $LogFile
```

root@codatest:/$ cat starttestweb.ksh

```
#!/usr/bin/ksh

Log=/coda/codatest/bin/starttestweb.out
```

```
        date >> $Log

        #Start apache HTTP Server;

        cd /usr/local/apache2/bin
        ./apachectl start
        if [ $? -eq 1 ]
         then
           echo "Problem to start HTTP Server ...quit\n" >>$Log
           exit 1
         else
           echo "HTTP Server has been started\n" >>$Log
        fi

        #Start apache TomCat Server;
        cd /usr/apache-tomcat-6.0.28/bin
        ./startup.sh
        if [ $? -eq 1 ]
         then
           echo "Problem to start TomCat ...quit\n" >> $Log
           exit 1
         else
           echo "TomCat has been started\n" >>$Log
        fi

        #Start CODA web application;
        cd /usr/coda/instances/CODADEV/DSS
        nohup dssstrlsv >>$Log 2>&1 &
        if [ $? -eq 1 ]
         then
           echo "Problem to start CODA web application ...\n" >>$Log
           echo "quit.....\n"
           exit 1
         else
           echo "Coda web application has been started\n" >>$Log
        fi
$


root@codatest# cat /home/oracle/script/db_backup.ksh
        #!/usr/bin/ksh

        Rpt=$HOME/report/backup_rpt.out

        . $HOME/.profile

        cd $HOME/sql

        DB_status=`sqlplus / as sysdba @db_status.sql|grep 'ACTIVE'`

        if [[ $? -ne 0 ]]
        then
           echo "Oracel DB is not UP, backup will quit ...."
           mail -s "CODATEST ALARM : DB backup failed due to DB is not up @ `date`" ""@cweb.com
        </dev/null
```

```
        exit 1
        fi

        cd /ora_fra/CODADEV/dbbackup
        rm -fe /ora_fra/CODADEV/dbbackup/*

        cd $HOME/sql

        rman TARGET / < db_backup.rman > $Rpt

        #Also clean log;
        find /u01/app/oracle/diag/rdbms/codadev/codadev/trace -name "*.trc" -mtime +3 -exec rm -f
        {} \;
        find /u01/app/oracle/diag/rdbms/codadev/codadev/trace -name "*.trm" -mtime +3 -exec rm -f
        {} \;
        find /u01/app/oracle/admin/codadev/adump -name "*.aud" -mtime +30 -exec rm -f {} \;

        find /u01/app/oracle/diag/tnslsnr/codatest/listener/alert -name "*.xml" -mtime +3 -exec
        rm -f {} \;

        mail -s "CODATEST : Oracle Daily Backup Report @ `date`" ""@cweb.com <$Rpt
```

codatest:oracle@/home/oracle/sql $cat ctrl_backup.rman

```
        connect target /
        run{
        host 'rm /home/oracle/ctrl_bkup/BACKUP_control.ctl';
        sql "alter database backup controlfile to ''/home/oracle/ctrl_bkup/BACKUP_control.ctl''";
        }
        exit;
```

codatest:oracle@/home/oracle/sql $cat db_backup.rman

```
        set echo off;
        backup database;
        backup archivelog all not backed up delete all input;
        allocate channel for maintenance type disk;
        delete noprompt obsolete device type disk;
        release channel;
        list backup completed between 'SYSDATE-1' and 'SYSDATE';
        exit;
```

$ cat startdb.sql

```
        startup;
        exit;
```

$ cat stopdb.sql

```
        shutdown immediate;
        exit;
```

codatest:oracle@/home/oracle$emctl start dbconsole

```
        Oracle Enterprise Manager 11g Database Control Release 11.2.0.2.0
        Copyright (c) 1996, 2010 Oracle Corporation.  All rights reserved.
        https://codadevdb:1158/em/console/aboutApplication
        Starting Oracle Enterprise Manager 11g Database Control ..... started.
```

```
      ----------------------------------------------------------------
      Logs are generated in directory
      /u01/app/oracle/product/11.2.0/dbhome_1/codadevdb_codadev/sysman/log

codatest:oracle@/home/oracle$emctl status agent
      Oracle Enterprise Manager 11g Database Control Release 11.2.0.2.0
      Copyright (c) 1996, 2010 Oracle Corporation.  All rights reserved.
      ----------------------------------------------------------------
      Agent Version     : 10.2.0.4.3
      OMS Version       : 10.2.0.4.3
      Protocol Version  : 10.2.0.4.3
      Agent Home        : /u01/app/oracle/product/11.2.0/dbhome_1/codadevdb_codadev
      Agent binaries    : /u01/app/oracle/product/11.2.0/dbhome_1
      Agent Process ID  : 18022504
      Parent Process ID : 2425158
      Agent URL         : https://codadevdb:3938/emd/main
      Repository URL    : https://codadevdb:1158/em/upload/
      Started at        : 2015-11-20 13:50:53
      Started by user   : oracle
      Last Reload       : 2015-11-20 13:50:53
      Last successful upload                       : (none)
      Last attempted upload                        : (none)
      Total Megabytes of XML files uploaded so far :     0.00
      Number of XML files pending upload           :       30
      Size of XML files pending upload(MB)         :    26.73
      Available disk space on upload filesystem    :    40.48%
      Data channel upload directory                :
      /u01/app/oracle/product/11.2.0/dbhome_1/codadevdb_codadev/sysman/recv
      Collection Status                            : Disabled by Upload Manager
      Last successful heartbeat to OMS             : 2015-11-20 13:51:25
      ----------------------------------------------------------------
```

NEW CODA ON AWS

For new coda maintenance on AWS,

1. **Jump host**, access instances from **Dev AD**, and
2. login a0blpcdaora01/a0blpcdawww01 to maintenance Oracle DB/HTTP application on **instance** level, and
3. monitoring instance(including start/stop instance) from **AWS console**

Master AWS Console sign-in (if required):

Livingston currently supports 4 AWS accounts. This section will cover those accounts, and how to deploy instances into those accounts.

AWS2 is dedicated to Smartborder, and will not be covered at this time.

AWSCoda was originally setup for Coda dev work, but is being migrated into AWS3 and AWS1 where it will be decommissioned upon completion.

AWS1 and AWS3 are the focus of this section at this time.

AWS1 is considered a Livingston International datacenter supporting production work. Until now this has been the account supporting all Livingston International work in AWS. Going forward this Account should only contain UAT and Production instances that were deployed utilizing Cloud Formation, Amazon's best practices toolset for (creating, provisioning, updating and managing) a collection of related AWS resources. Anything deployed manually in this account will be removed without warning. Any items that need to be adjusted should be addressed to awssupport@cweb.com.

AWS3 is considered a Livingston International datacenter supporting development work. This account should contain any instances required for development or QA testing. Instances needed for sizing testing, development or proof of concept, can be deployed manually. All instances required for QA testing should be deployed via Cloud Formation as a sanity check prior to UAT. The more detailed requirements you provide the AWS Support team the quicker your deployment to UAT and Production will be. We are more than happy to work with you on deploying your QA and even your development environment through a Cloud Formation template.

https://cweb.signin.aws.amazon.com/console
Username: lchen
Password: ~~y5sPDHCmQnBp~~

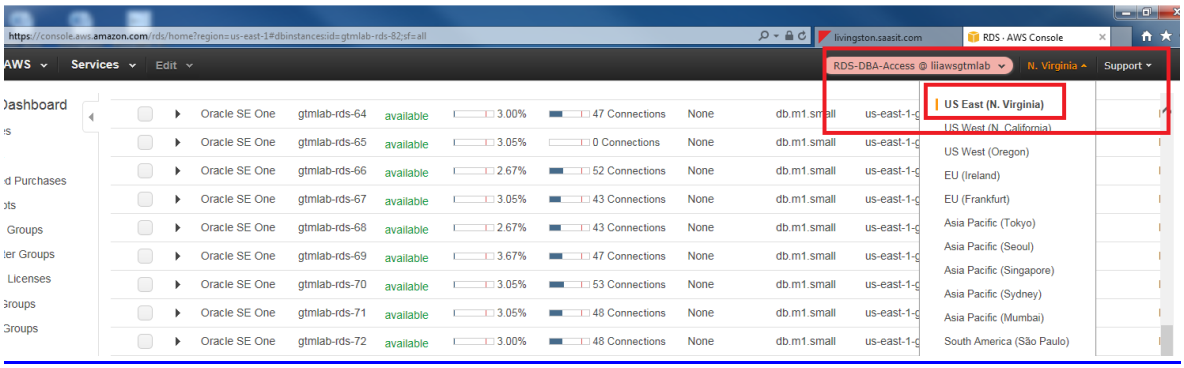
~~**a5sPDHCmQnBb**~~

Also using **2-steps Authentication tool on smartphone** to get authenticatin code. how to install 2-step Authentication tool, please find AWS document.

Switch to Finance Account (log in above first):
https://signin.aws.amazon.com/switchrole?account=liiawsfinance&roleName=RDS-DBA-Access

For Bob, AWS GTM RDS recycle:
https://cweb.signin.aws.amazon.com/console

https://signin.aws.amazon.com/switchrole?account=liiawsgtmlab&roleName=RDS-DBA-Access



common Windows Remote Desktop Services environment

This section will cover the ways for Livingston International Employees and Contractors to access the AWS Environments. Livingston International supplies a Windows Remote Desktop Services environment and multiple Linux jump servers that are accessible over the Livingston International VPN or in some cases over the Internet. Our common **Windows Remote Desktop Services environment** can be access via https://rdpbrk-east.liiaws.net/RDWeb. ~~Our common linux jump servers are currently only available via VPN at a0alminfjmp10.dev.liiaws.net and a0elminfjmp10.dev.liiaws.net. Additional linux jump servers are stood up on a case by case basis.~~

https://rdpduobrk-east.liiaws.net/RDWeb/
User: dev-lii\lchen

passwords for both the AWS console as well as dev-lii, please see below:

Dev AD:
Username: Dev-lii\lchen
~~Password: c6uNacetHAf!~~

Also need open **Duo tool** on Smartphone to get acess approvel(twice), how to setup account on Duo, please find AWS document

```
Dev AD: https://rdpduobrk-east.liiaws.net/RDWeb/
Username:  Dev-lii\lchen
##Password:  [redacted]
[redacted]
```

Also need open Duo tool on Smartphone to get acess approvel(twice), how to setup account on Duo, please find AWS document

Username: lchen
~~Password:t REMus-j65hE~~

in this windows Remote Desktop Services environment, we can login/access jump servers(Linux) using ssh tool , then we can access EC2 and RDS instances from these Linux jump servers, there is no need of VPN connection to Livingston.

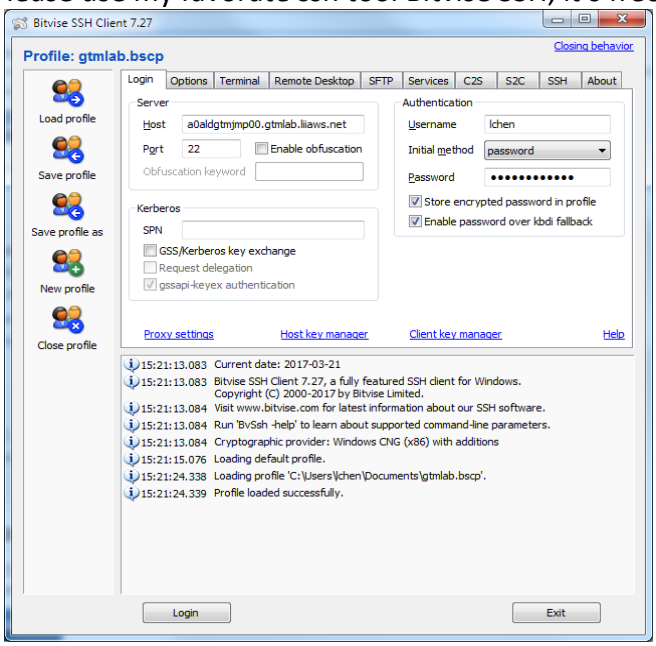
1.ssh -v lchen@a0alptcajmp01.dev.liiaws.net
-- need remote desktop service to access it(using password and/or keyfile), if you are using VPN, then you do not need this jump server to access code EC2 instances on AWS, just ssh these EC2 instances directly from you laptop.

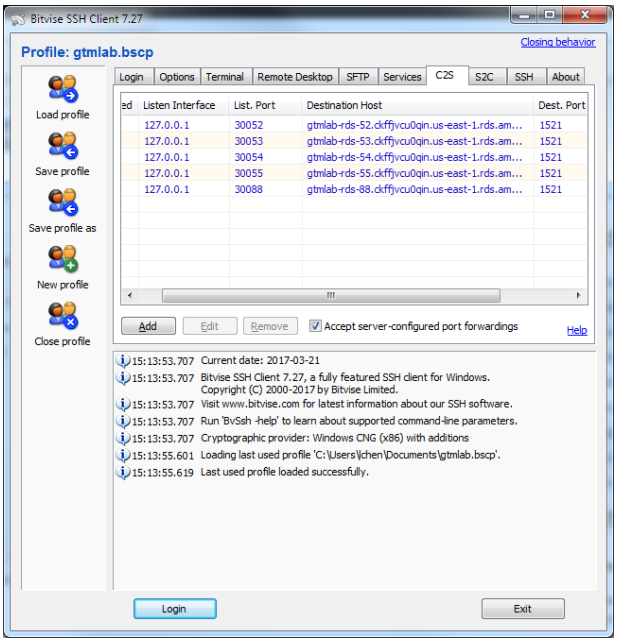
2. ssh -v lchen@a0aldgtmjmp00.gtmlab.liiaws.net
-- for gtmlab RDS instances on AWS, need password and Duo cell phone to accept access, this can be accessed from internet directly without VPN connection and/or without this remote desktop servvices

Username: lchen
Password: [redacted]

Jump Host sign-in (required if only internet access), if you are in Livingston office, just login/access these jump servers directly

Please use my favorate ssh tool Bitvise SSH, it's free





U:\>nslookup
Default Server: vtwmdc202.lii01.livun.com

```
Address:  192.168.253.7
> a0aldgtmjmp00.gtmlab.liiaws.net
Server:  vtwmdc202.lii01.livun.com
Address:  192.168.253.7

Non-authoritative answer:
Name:    ec2-54-211-232-221.compute-1.amazonaws.com
Address:  54.211.232.221
Aliases:  a0aldgtmjmp00.gtmlab.liiaws.net

[lchen@a0aldgtmjmp00 ~]$ ifconfig -a
eth0: flags=4163<UP,BROADCAST,RUNNING,MULTICAST>  mtu 1420
        inet 10.0.120.202  netmask 255.255.255.0  broadcast 10.0.120.255
        inet6 fe80::1062:e7ff:feee:acb3  prefixlen 64  scopeid 0x20<link>
        ether 12:62:e7:ee:ac:b3  txqueuelen 1000  (Ethernet)
        RX packets 40143323  bytes 15820978639 (14.7 GiB)
        RX errors 0  dropped 0  overruns 0  frame 0
        TX packets 37308608  bytes 15866227521 (14.7 GiB)
        TX errors 0  dropped 0 overruns 0  carrier 0  collisions 0

lo: flags=73<UP,LOOPBACK,RUNNING>  mtu 65536
        inet 127.0.0.1  netmask 255.0.0.0
        inet6 ::1  prefixlen 128  scopeid 0x10<host>
        loop  txqueuelen 1  (Local Loopback)
        RX packets 103951  bytes 5197879 (4.9 MiB)
        RX errors 0  dropped 0  overruns 0  frame 0
        TX packets 103951  bytes 5197879 (4.9 MiB)
        TX errors 0  dropped 0 overruns 0  carrier 0  collisions 0
```

Instance:

echo “public key” into(>>) the ~/.ssh/authorized_keys file on the host in question.

~~**Linux Jump Host:**~~

~~a0almadmjmp01 - 10.0.1.152(obsolete)~~

Finance Instances:

a0blpcdawww01 - 10.0.201.109
a0blpcdaora01 - 10.0.202.119

Username: lchen

[redacted]

TEST:

coda web	a0altcdawww01.dev.liiaws.net
coda db	a0altcdaora01.dev.liiaws.net

DEV:

coda web	a0aldcdawww01.dev.liiaws.net
coda db	a0aldcdaora01.dev.liiaws.net

Reporting:

coda reporting	a0blpcdaora10.lii01.livun.com

Account

Production	REPORT		TEST	Dev
a0blpcdaora01.lii01.livun.com **eth0** 10.0.202.119 **a0blpcdawww01.lii01.livun.com** **eth0** 10.0.201.109	**a0blpcdaora10.lii01.livun.com** **eth0** 10.0.202.94		**a0altcdaora01.dev.liiaws.net** **eth0** 10.169.8.52 **a0altcdawww01.dev.liiaws.net** **eth0** 10.169.42.108	**a0aldcdaora01.dev.liiaws.net** **eth0** 10.169.1.0 **a0aldcdawww01.dev.liiaws.net** **eth0** 10.169.43.255
Oracle Database 11g Release 11.2.0.4.0 - 64bit Production	Oracle Database 11g Release 11.2.0.4.0 - 64bit Production		Apache/2.2.15 (Unix) apache-tomcat-6.0.28 Coda Web Process DDS ~~CODA Application~~ Oracle Database 11g Release 11.2.0.4.0 - 64bit Production	Apache/2.2.15 (Unix) apache-tomcat-6.0.28 Coda Web Process DDS ~~CODA Application~~ Oracle Database 11g Release 11.2.0.4.0 - 64bit Production
oracle/ Livingston1	oracle/ Livingston1		oracle/ Livingston1	oracle/ Livingston1
CODA (DBID=2218328090) codauser/codaliv ~~sys/system/dbsnmp: Livingston_4U~~ DBID=2218328090 DB_NAME=CODA Flash Recovery Area Location */u01/app/oracle/fast_recovery_area* Flash Recovery Area Size *1500G*	**Daily DB CODAPROD (DBID=1057852613)** codauser/codaliv ~~sys/system/dbsnmp: Livingston_4U~~ DBID=2218328090 DB_NAME=CODA ~~F~~lash Recovery Area Location */u01/app/oracle/fast_recovery_area* Flash Recovery Area Size *1500G*	**Monthly DB MONTHRPT (DBID=1857461778)** codauser/codaliv ~~sys/system/dbsnmp: Livingston_4U~~	**CODATEST (DBID=3171481910)** codauser/codadev ~~sys/system/dbsnmp: codadev_4U(dev)~~ DBID=2216712627 DB_NAME=CODA Flash Recovery Area Location */u01/app/oracle/fast_recovery_area* Flash Recovery Area Size *1500G*	~~**CODATEST (DBID=3171481910)**~~ codauser/codadev DBID=2218328090 DB_NAME=CODA Flash Recovery Area Location */u01/app/oracle/fast_recovery_area* Flash Recovery Area Size *2063848624K*

Access EM

```
[oracle@CODAPRODDB ~]$ emctl status dbconsole
        Oracle Enterprise Manager 11g Database Control Release 11.2.0.4.0
        Copyright (c) 1996, 2013 Oracle Corporation.  All rights reserved.
        https://a0blpcdaora01.lii01.livun.com:5501/em/console/aboutApplication
        Oracle Enterprise Manager 11g is running.
        ------------------------------------------------------------------
        Logs are generated in directory
        /u01/app/oracle/product/11.2.0/dbhome_2/a0blpcdaora01.lii01.livun.com_CODA/sysman/log
```

https://a0blpcdaora01.lii01.livun.com:5501/em/console/logon/logon

AWS Instance management(reboot RDS)
(access AWS from internet, not from VPN to Livingston intranet)

step 1: login URL:

https://cweb.signin.aws.amazon.com/console

Username: lchen
[redacted]

##a5sPDHCmQnBb
#qwerPOIU1234
#try username: lchen@cweb [redacted] if not successful

Step 2: Switch User Role

==========

For Coda, Switch to Finance Account role(log in above first), just copy following string to Web broswer URL:

https://signin.aws.amazon.com/switchrole?account=liiawsfinance&roleName=RDS-DBA-Access

==========

For Bob, Switch to AWS GTM RDS recycle role: just copy following string to Web broswer URL:

https://signin.aws.amazon.com/switchrole?account=liiawsgtmlab&roleName=RDS-DBA-Access

==========

RDS#

Switch to Finance Account (log in above first):
https://signin.aws.amazon.com/switchrole?account=liiawsfinance&roleName=RDS-DBA-Access

For Bob, AWS GTM RDS recycle:
https://signin.aws.amazon.com/switchrole?account=liiawsgtmlab&roleName=RDS-DBA-Access

##a5sPDHCmQnBb
##qwerPOIU1234

For Bob, Access RDS Instance,

ssh -v lchen@a0alptcajmp01.dev.liiaws.net --need only password and/or keyfile
ssh -v lchen@a0aldgtmjmp00.gtmlab.liiaws.net --need password and Duo cell phone to accept access

Username: lchen
[redacted]

==========

Dev AD:
https://rdpduobrk-east.liiaws.net/RDWeb/

```
Username:  Dev-lii\lchen
[redacted]
[redacted]

Also need open Duo tool on Smartphone to get acess approvel(twice), how to setup account
on Duo, please find AWS document



ssh -v lchen@a0alptcajmp01.dev.liiaws.net         --need only password and/or keyfile
ssh -v lchen@a0aldgtmjmp00.gtmlab.liiaws.net      --need password and Duo cell phone to
accept access

Username:     lchen
[redacted]

Autopushing login request to phone...
Success. Logging you in...
Last login: Thu Dec 22 14:50:33 2016 from 24.114.222.253
id: cannot find name for group ID 2067792385
[lchen@a0aldgtmjmp00 ~]$
[lchen@a0aldgtmjmp00 ~]$
[lchen@a0aldgtmjmp00 ~]$
[lchen@a0aldgtmjmp00 ~]$ sudo su - oracle
Last login: Thu Dec 22 14:56:44 EST 2016 on pts/0
[oracle@a0aldgtmjmp00 ~]$
[oracle@a0aldgtmjmp00 ~]$
[oracle@a0aldgtmjmp00 ~]$ env | grep ORA
ORACLE_SID=gtmdb
ORACLE_BASE=/u01/app/oracle
ORACLE_HOSTNAME=a0aldgtmjmp00.dev.liiaws.net
ORACLE_HOME=/u01/app/oracle/product/12.1.0/dbhome_1
[oracle@a0aldgtmjmp00 ~]$
[oracle@a0aldgtmjmp00 ~]$ ps -ef | grep ora

[oracle@a0aldgtmjmp00 ~]$
[oracle@a0aldgtmjmp00 ~]$ cd /gtmlab
[oracle@a0aldgtmjmp00 gtmlab]$ cd rds-52
[oracle@a0aldgtmjmp00 rds-52]$ ls -al
total 4
drwxr-xr-x  7 oracle domain_users  114 Dec 21 17:02 .
drwxr-xr-x 47 oracle domain_users 4096 Nov  4 09:33 ..
drwxr-xr-x  2 oracle domain_users   61 Dec 21 15:05 s1.putdumpfile
drwxr-xr-x  2 oracle domain_users   41 Dec 21 15:55 s2.impdumpfile
drwxr-xr-x  2 oracle domain_users   41 Oct 21 09:39 s3.expdumpfile
drwxr-xr-x  2 oracle domain_users   61 Oct 21 09:41 s4.getdumpfile
drwxr-xr-x  2 oracle domain_users   41 Dec 21 17:02 s5.impdumptcafile

[oracle@a0aldgtmjmp00 s2.impdumpfile]$ ls -al
total 8
drwxr-xr-x 2 oracle domain_users  41 Dec 21 15:55 .
drwxr-xr-x 7 oracle domain_users 114 Dec 21 17:02 ..
-rwxr--r-- 1 oracle domain_users 154 Dec 21 15:55 impfile.bash
-rw-r--r-- 1 oracle domain_users 290 Dec 21 15:57 nohup.out
[oracle@a0aldgtmjmp00 s2.impdumpfile]$ cat imp*
```

```
nohup impdp dbadmin/gtmlab11%%00@gtmlab52 SCHEMAS=tsmgr DIRECTORY=data_pump_dir
DUMPFILE=Moto3_copied.dmp LOGFILE=Moto3_copied.log > ./nohup.out 2>&1 &

[oracle@a0aldgtmjmp00 s2.impdumpfile]$
[oracle@a0aldgtmjmp00 s2.impdumpfile]$ cd
[oracle@a0aldgtmjmp00 ~]$
[oracle@a0aldgtmjmp00 ~]$ env | grep ORA
ORACLE_SID=gtmdb
ORACLE_BASE=/u01/app/oracle
ORACLE_HOSTNAME=a0aldgtmjmp00.dev.liiaws.net
ORACLE_HOME=/u01/app/oracle/product/12.1.0/dbhome_1
[oracle@a0aldgtmjmp00 ~]$
[oracle@a0aldgtmjmp00 ~]$ sqlplus dbadmin/gtmlab11%%00@gtmlab52

SQL*Plus: Release 12.1.0.2.0 Production on Thu Dec 22 15:07:31 2016

Copyright (c) 1982, 2014, Oracle.  All rights reserved.

Last Successful login time: Thu Dec 22 2016 14:57:58 -05:00

Connected to:
Oracle Database 12c Release 12.1.0.1.0 - 64bit Production

SQL> user
SP2-0042: unknown command "user" - rest of line ignored.
SQL> show user
USER is "DBADMIN"
SQL> quit
Disconnected from Oracle Database 12c Release 12.1.0.1.0 - 64bit Production
[oracle@a0aldgtmjmp00 ~]$


# tnsnames.ora Network Configuration File:
/u01/app/oracle/product/12.1.0/dbhome_1/network/admin/tnsnames.ora
# Generated by Oracle configuration tools.

GTMDB =
  (DESCRIPTION =
    (ADDRESS = (PROTOCOL = TCP)(HOST = a0aldgtmjmp00.dev.liiaws.net)(PORT = 1521))
    (CONNECT_DATA =
      (SERVER = DEDICATED)
      (SERVICE_NAME = gtmdb.dev.liiaws.net)
    )
  )

GTMLAB =
  (DESCRIPTION =
    (ADDRESS = (PROTOCOL = TCP)(HOST = gtmlab-rds-00.ckffjvcu0qin.us-east-
1.rds.amazonaws.com)(PORT = 1521))
    (CONNECT_DATA =
      (SERVER = DEDICATED)
      (SERVICE_NAME = orcl)
    )
  )
```

```
GTMLAB50 =
  (DESCRIPTION =
    (ADDRESS = (PROTOCOL = TCP)(HOST = gtmlab-rds-50.ckffjvcu0qin.us-east-
1.rds.amazonaws.com)(PORT = 1521))
    (CONNECT_DATA =
      (SERVER = DEDICATED)
      (SERVICE_NAME = orcl)
    )
  )

GTMLAB51 =
  (DESCRIPTION =
    (ADDRESS = (PROTOCOL = TCP)(HOST = gtmlab-rds-51.ckffjvcu0qin.us-east-
1.rds.amazonaws.com)(PORT = 1521))
    (CONNECT_DATA =
      (SERVER = DEDICATED)
      (SERVICE_NAME = orcl)
    )
  )

GTMLAB52 =
  (DESCRIPTION =
    (ADDRESS = (PROTOCOL = TCP)(HOST = gtmlab-rds-52.ckffjvcu0qin.us-east-
1.rds.amazonaws.com)(PORT = 1521))
    (CONNECT_DATA =
      (SERVER = DEDICATED)
      (SERVICE_NAME = orcl)
    )
  )

GTMLAB53 =
  (DESCRIPTION =
    (ADDRESS = (PROTOCOL = TCP)(HOST = gtmlab-rds-53.ckffjvcu0qin.us-east-
1.rds.amazonaws.com)(PORT = 1521))
    (CONNECT_DATA =
      (SERVER = DEDICATED)
      (SERVICE_NAME = orcl)
    )
  )

GTMLAB54 =
  (DESCRIPTION =
    (ADDRESS = (PROTOCOL = TCP)(HOST = gtmlab-rds-54.ckffjvcu0qin.us-east-
1.rds.amazonaws.com)(PORT = 1521))
    (CONNECT_DATA =
      (SERVER = DEDICATED)
      (SERVICE_NAME = orcl)
    )
  )

GTMLAB55 =
  (DESCRIPTION =
    (ADDRESS = (PROTOCOL = TCP)(HOST = gtmlab-rds-55.ckffjvcu0qin.us-east-
1.rds.amazonaws.com)(PORT = 1521))
```

```
    (CONNECT_DATA =
      (SERVER = DEDICATED)
      (SERVICE_NAME = orcl)
    )
  )

GTMLAB56 =
  (DESCRIPTION =
    (ADDRESS = (PROTOCOL = TCP)(HOST = gtmlab-rds-56.ckffjvcu0qin.us-east-
1.rds.amazonaws.com)(PORT = 1521))
    (CONNECT_DATA =
      (SERVER = DEDICATED)
      (SERVICE_NAME = orcl)
    )
  )

GTMLAB57 =
  (DESCRIPTION =
    (ADDRESS = (PROTOCOL = TCP)(HOST = gtmlab-rds-57.ckffjvcu0qin.us-east-
1.rds.amazonaws.com)(PORT = 1521))
    (CONNECT_DATA =
      (SERVER = DEDICATED)
      (SERVICE_NAME = orcl)
    )
  )

GTMLAB58 =
  (DESCRIPTION =
    (ADDRESS = (PROTOCOL = TCP)(HOST = gtmlab-rds-58.ckffjvcu0qin.us-east-
1.rds.amazonaws.com)(PORT = 1521))
    (CONNECT_DATA =
      (SERVER = DEDICATED)
      (SERVICE_NAME = orcl)
    )
  )

GTMLAB59 =
  (DESCRIPTION =
    (ADDRESS = (PROTOCOL = TCP)(HOST = gtmlab-rds-59.ckffjvcu0qin.us-east-
1.rds.amazonaws.com)(PORT = 1521))
    (CONNECT_DATA =
      (SERVER = DEDICATED)
      (SERVICE_NAME = orcl)
    )
  )

GTMLAB60 =
  (DESCRIPTION =
    (ADDRESS = (PROTOCOL = TCP)(HOST = gtmlab-rds-60.ckffjvcu0qin.us-east-
1.rds.amazonaws.com)(PORT = 1521))
    (CONNECT_DATA =
      (SERVER = DEDICATED)
      (SERVICE_NAME = orcl)
    )
  )
```

```
GTMLAB61 =
  (DESCRIPTION =
    (ADDRESS = (PROTOCOL = TCP)(HOST = gtmlab-rds-61.ckffjvcu0qin.us-east-
1.rds.amazonaws.com)(PORT = 1521))
    (CONNECT_DATA =
      (SERVER = DEDICATED)
      (SERVICE_NAME = orcl)
    )
  )

GTMLAB62 =
  (DESCRIPTION =
    (ADDRESS = (PROTOCOL = TCP)(HOST = gtmlab-rds-62.ckffjvcu0qin.us-east-
1.rds.amazonaws.com)(PORT = 1521))
    (CONNECT_DATA =
      (SERVER = DEDICATED)
      (SERVICE_NAME = orcl)
    )
  )

GTMLAB63 =
  (DESCRIPTION =
    (ADDRESS = (PROTOCOL = TCP)(HOST = gtmlab-rds-63.ckffjvcu0qin.us-east-
1.rds.amazonaws.com)(PORT = 1521))
    (CONNECT_DATA =
      (SERVER = DEDICATED)
      (SERVICE_NAME = orcl)
    )
  )

GTMLAB64 =
  (DESCRIPTION =
    (ADDRESS = (PROTOCOL = TCP)(HOST = gtmlab-rds-64.ckffjvcu0qin.us-east-
1.rds.amazonaws.com)(PORT = 1521))
    (CONNECT_DATA =
      (SERVER = DEDICATED)
      (SERVICE_NAME = orcl)
    )
  )

GTMLAB65 =
  (DESCRIPTION =
    (ADDRESS = (PROTOCOL = TCP)(HOST = gtmlab-rds-65.ckffjvcu0qin.us-east-
1.rds.amazonaws.com)(PORT = 1521))
    (CONNECT_DATA =
      (SERVER = DEDICATED)
      (SERVICE_NAME = orcl)
    )
  )

GTMLAB66 =
  (DESCRIPTION =
    (ADDRESS = (PROTOCOL = TCP)(HOST = gtmlab-rds-66.ckffjvcu0qin.us-east-
1.rds.amazonaws.com)(PORT = 1521))
```

```
    (CONNECT_DATA =
      (SERVER = DEDICATED)
      (SERVICE_NAME = orcl)
    )
  )

GTMLAB67 =
  (DESCRIPTION =
    (ADDRESS = (PROTOCOL = TCP)(HOST = gtmlab-rds-67.ckffjvcu0qin.us-east-
1.rds.amazonaws.com)(PORT = 1521))
    (CONNECT_DATA =
      (SERVER = DEDICATED)
      (SERVICE_NAME = orcl)
    )
  )

GTMLAB68 =
  (DESCRIPTION =
    (ADDRESS = (PROTOCOL = TCP)(HOST = gtmlab-rds-68.ckffjvcu0qin.us-east-
1.rds.amazonaws.com)(PORT = 1521))
    (CONNECT_DATA =
      (SERVER = DEDICATED)
      (SERVICE_NAME = orcl)
    )
  )

GTMLAB69 =
  (DESCRIPTION =
    (ADDRESS = (PROTOCOL = TCP)(HOST = gtmlab-rds-69.ckffjvcu0qin.us-east-
1.rds.amazonaws.com)(PORT = 1521))
    (CONNECT_DATA =
      (SERVER = DEDICATED)
      (SERVICE_NAME = orcl)
    )
  )

GTMLAB70 =
  (DESCRIPTION =
    (ADDRESS = (PROTOCOL = TCP)(HOST = gtmlab-rds-70.ckffjvcu0qin.us-east-
1.rds.amazonaws.com)(PORT = 1521))
    (CONNECT_DATA =
      (SERVER = DEDICATED)
      (SERVICE_NAME = orcl)
    )
  )

GTMLAB71 =
  (DESCRIPTION =
    (ADDRESS = (PROTOCOL = TCP)(HOST = gtmlab-rds-71.ckffjvcu0qin.us-east-
1.rds.amazonaws.com)(PORT = 1521))
    (CONNECT_DATA =
      (SERVER = DEDICATED)
      (SERVICE_NAME = orcl)
    )
  )
```

```
GTMLAB72 =
  (DESCRIPTION =
    (ADDRESS = (PROTOCOL = TCP)(HOST = gtmlab-rds-72.ckffjvcu0qin.us-east-
1.rds.amazonaws.com)(PORT = 1521))
    (CONNECT_DATA =
      (SERVER = DEDICATED)
      (SERVICE_NAME = orcl)
    )
  )

GTMLAB73 =
  (DESCRIPTION =
    (ADDRESS = (PROTOCOL = TCP)(HOST = gtmlab-rds-73.ckffjvcu0qin.us-east-
1.rds.amazonaws.com)(PORT = 1521))
    (CONNECT_DATA =
      (SERVER = DEDICATED)
      (SERVICE_NAME = orcl)
    )
  )

GTMLAB74 =
  (DESCRIPTION =
    (ADDRESS = (PROTOCOL = TCP)(HOST = gtmlab-rds-74.ckffjvcu0qin.us-east-
1.rds.amazonaws.com)(PORT = 1521))
    (CONNECT_DATA =
      (SERVER = DEDICATED)
      (SERVICE_NAME = orcl)
    )
  )

GTMLAB75 =
  (DESCRIPTION =
    (ADDRESS = (PROTOCOL = TCP)(HOST = gtmlab-rds-75.ckffjvcu0qin.us-east-
1.rds.amazonaws.com)(PORT = 1521))
    (CONNECT_DATA =
      (SERVER = DEDICATED)
      (SERVICE_NAME = orcl)
    )
  )

GTMLAB76 =
  (DESCRIPTION =
    (ADDRESS = (PROTOCOL = TCP)(HOST = gtmlab-rds-76.ckffjvcu0qin.us-east-
1.rds.amazonaws.com)(PORT = 1521))
    (CONNECT_DATA =
      (SERVER = DEDICATED)
      (SERVICE_NAME = orcl)
    )
  )

GTMLAB77 =
  (DESCRIPTION =
    (ADDRESS = (PROTOCOL = TCP)(HOST = gtmlab-rds-77.ckffjvcu0qin.us-east-
1.rds.amazonaws.com)(PORT = 1521))
```

```
    (CONNECT_DATA =
      (SERVER = DEDICATED)
      (SERVICE_NAME = orcl)
    )
  )

GTMLAB78 =
  (DESCRIPTION =
    (ADDRESS = (PROTOCOL = TCP)(HOST = gtmlab-rds-78.ckffjvcu0qin.us-east-
1.rds.amazonaws.com)(PORT = 1521))
    (CONNECT_DATA =
      (SERVER = DEDICATED)
      (SERVICE_NAME = orcl)
    )
  )

GTMLAB79 =
  (DESCRIPTION =
    (ADDRESS = (PROTOCOL = TCP)(HOST = gtmlab-rds-79.ckffjvcu0qin.us-east-
1.rds.amazonaws.com)(PORT = 1521))
    (CONNECT_DATA =
      (SERVER = DEDICATED)
      (SERVICE_NAME = orcl)
    )
  )

GTMLAB80 =
  (DESCRIPTION =
    (ADDRESS = (PROTOCOL = TCP)(HOST = gtmlab-rds-80.ckffjvcu0qin.us-east-
1.rds.amazonaws.com)(PORT = 1521))
    (CONNECT_DATA =
      (SERVER = DEDICATED)
      (SERVICE_NAME = orcl)
    )
  )

GTMLAB81 =
  (DESCRIPTION =
    (ADDRESS = (PROTOCOL = TCP)(HOST = gtmlab-rds-81.ckffjvcu0qin.us-east-
1.rds.amazonaws.com)(PORT = 1521))
    (CONNECT_DATA =
      (SERVER = DEDICATED)
      (SERVICE_NAME = orcl)
    )
  )

GTMLAB82 =
  (DESCRIPTION =
    (ADDRESS = (PROTOCOL = TCP)(HOST = gtmlab-rds-82.ckffjvcu0qin.us-east-
1.rds.amazonaws.com)(PORT = 1521))
    (CONNECT_DATA =
      (SERVER = DEDICATED)
      (SERVICE_NAME = orcl)
    )
  )
```

```
GTMLAB83 =
  (DESCRIPTION =
    (ADDRESS = (PROTOCOL = TCP)(HOST = gtmlab-rds-83.ckffjvcu0qin.us-east-
1.rds.amazonaws.com)(PORT = 1521))
    (CONNECT_DATA =
      (SERVER = DEDICATED)
      (SERVICE_NAME = orcl)
    )
  )

GTMLAB84 =
  (DESCRIPTION =
    (ADDRESS = (PROTOCOL = TCP)(HOST = gtmlab-rds-84.ckffjvcu0qin.us-east-
1.rds.amazonaws.com)(PORT = 1521))
    (CONNECT_DATA =
      (SERVER = DEDICATED)
      (SERVICE_NAME = orcl)
    )
  )

GTMLAB85 =
  (DESCRIPTION =
    (ADDRESS = (PROTOCOL = TCP)(HOST = gtmlab-rds-85.ckffjvcu0qin.us-east-
1.rds.amazonaws.com)(PORT = 1521))
    (CONNECT_DATA =
      (SERVER = DEDICATED)
      (SERVICE_NAME = orcl)
    )
  )

GTMLAB86 =
  (DESCRIPTION =
    (ADDRESS = (PROTOCOL = TCP)(HOST = gtmlab-rds-86.ckffjvcu0qin.us-east-
1.rds.amazonaws.com)(PORT = 1521))
    (CONNECT_DATA =
      (SERVER = DEDICATED)
      (SERVICE_NAME = orcl)
    )
  )


GTMLAB87 =
  (DESCRIPTION =
    (ADDRESS = (PROTOCOL = TCP)(HOST = gtmlab-rds-87.ckffjvcu0qin.us-east-
1.rds.amazonaws.com)(PORT = 1521))
    (CONNECT_DATA =
      (SERVER = DEDICATED)
      (SERVICE_NAME = orcl)
    )
  )

GTMLAB88 =
  (DESCRIPTION =
```

```
    (ADDRESS = (PROTOCOL = TCP)(HOST = gtmlab-rds-88.ckffjvcu0qin.us-east-
1.rds.amazonaws.com)(PORT = 1521))
    (CONNECT_DATA =
      (SERVER = DEDICATED)
      (SERVICE_NAME = orcl)
    )
  )

GTMLAB89 =
  (DESCRIPTION =
    (ADDRESS = (PROTOCOL = TCP)(HOST = gtmlab-rds-89.ckffjvcu0qin.us-east-
1.rds.amazonaws.com)(PORT = 1521))
    (CONNECT_DATA =
      (SERVER = DEDICATED)
      (SERVICE_NAME = orcl)
    )
  )


GTMLAB90 =
  (DESCRIPTION =
    (ADDRESS = (PROTOCOL = TCP)(HOST = gtmlab-rds-90.ckffjvcu0qin.us-east-
1.rds.amazonaws.com)(PORT = 1521))
    (CONNECT_DATA =
      (SERVER = DEDICATED)
      (SERVICE_NAME = orcl)
    )
  )

GTMLAB91 =
  (DESCRIPTION =
    (ADDRESS = (PROTOCOL = TCP)(HOST = gtmlab-rds-91.ckffjvcu0qin.us-east-
1.rds.amazonaws.com)(PORT = 1521))
    (CONNECT_DATA =
      (SERVER = DEDICATED)
      (SERVICE_NAME = orcl)
    )
  )
```