**Exadime DBA Scripts Manual**

**Version 1.0.0**

**Database Administration**

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# Introduction

This document is a manual source for the usage of Exadime DBA Scripts for Oracle databases maintenance, monitoring, reporting, support and recovery.

# Installation

## *UNIX*

1. Make the base directory for Exadime scripts in ~oracle/scripts.

$mkdir –p ~oracle/scripts/exa

1. Transfer Exadime scripts into the above directory.

|  |  |  |
| --- | --- | --- |
| **S. No.** | **Transfer Mode** | **Directory/File** |
| 1 | Binary | doc lib plb unix |
| 2 | Text/ASCII | lib/exa.lib |
| 3 | Text/ASCII | unix/Sora; mnt\_sw\_db.ksh; run\_crn\_job.ksh |
| 4 | Text/ASCII | All other folders. |

1. Set RWX permission.

chmod –R 750 ~oracle/scripts/exa

1. Specify Exadime scripts path in the following files if required.

|  |  |  |  |
| --- | --- | --- | --- |
| **S. No.** | **File Name** | **Directory** | **Comments** |
| 1 | exa.ini | ${exa\_home}/ini | Initialization parameters. |
| 2 | unix.ini | ${exa\_home}/ini | Unix scripts initialization. |
| 3 | oracle.ini | ${exa\_home}/ini | Oracle scripts initialization. |
| 4 | exa.env | ${exa\_home}/env | Environment setup. |
| 5 | run\_crn\_job.ksh | ${exa\_home}/unix | Cron job execution. |
| 6 | Sora | ${exa\_home}/unix | Database auto start/stop. |

**Note:** Default scripts path is “~oracle/scripts/exa” and ORACLE\_BASE is “~oracle”.

1. Lib folder contains Korn Shell libraries for each O/S. Use the appropriate KSH file.

$cd lib

$cp <ksh\_os> ksh

$chmod 750 ksh

1. Add the following line into .bash\_profile (Linux)/.profile (AIX/Solaris).

. ~oracle/scripts/exa/env/exa.env

## *LINUX*

In case of LINUX, install the following rpm. #yum install ksh

#yum install bc

## *Windows*

1. Create folder "scripts" in c:\oracle and extract scripts.
2. Set the values for SQLPATH and TNS\_ADMIN.
   1. Open command prompt.

Start>Run>cmd.exe

* 1. Open system properties.

C:\>control.exe %windir%\system32\sysdm.cpl

* 1. Select Advanced>Environment Variables>System Variables>New.
  2. Enter the name and value as shown below.

SQLPATH=c:\oracle\scripts\exa\ini;c:\oracle\scripts\exa\sql TNS\_ADMIN=c:\oracle\scripts\exa\tns

1. Make necessary environment changes to the following file. dba.env

**Note:** This is required only if the host is a database server.

# Configuration

### Oracle files and directories.

Specify the values for the following entries in exa.ini file.

* + ora\_tab
  + ORACLE\_BASE
  + TNS\_ADMIN

### Title

Specify the following information in cnf.ini file.

* + Company Name
  + Company Address
  + Author

### Notifications

The following notifications can be set in cnf.ini file.

* + email
  + sms
  + pager

There are two types of notifications.

* + Default
  + Ad-hoc

#### Default

Default notifications are regular notifications that will be sent to DBA group when production is live.

#### Ad-hoc

Ad-hoc notifications are used when notifications are to be sent to a specific DBA while performing maintenance or support activities.

The anatomy of -esp (email, sms and pager) value is as shown below.

-esp|-e [{0|1}{0|1}{0|1}[a-z]].

1. Turnoff 1-Turnon

Contents of cnf.ini file related to notifications are shown below.

*#Default DBA Notifications dba\_email=<email> dba\_sms=<sms> dba\_pager=<pager> return\_recipient=<email>*

*#Ad-hoc DBA Notifications dba\_email\_x=<email> dba\_sms\_x=<sms> dba\_pager\_x=<pager> return\_recipient=<email>*

Example

* 1. To send notifications to default group, specify at –esp|-e as below.

-e 100 for email.

-e 110 for email and mobile sms.

-e 111 for email, mobile sms and pager.

* 1. To send notifications to ad-hoc group, specify at –esp|-e as below.

-e 100x for email.

-e 110x for email and mobile sms.

-e 111x for email, mobile sms and pager.

### Defaults

Default values for different inputs in the scripts can be specified in cnf.ini file. The following are the list of entries that can be found in cnf.ini file. These are self- explanatory.

#File Permissions umask 026

#Tablespace Threshold Limits #1.Regular

rts\_lmt=90

#2.Fatal fts\_lmt=95

#File System Threshold Limits #1.Regular

rfs\_lmt=90

#2.Fatal ffs\_lmt=95

#Default Notification Codes stp\_esp="000" mnt\_esp="000" mtr\_esp="000" dar\_esp="000" run\_esp="000" rco\_esp="000" trs\_esp="000" sho\_esp="000"

### Oracle Cron

It is recommended to set the following jobs in Oracle cron as described below.

|  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Job#** | **Category** | **Description** | **Frequency** | **esp** | | **Script** | **Environment** | | | | **Comments** |
| **P&S** | **U&D** | **PRD** | **STB** | **UAT** | **DEV** |
| 1.1 | MNT | Listener shutdown. | Weekly | 100 | 100 | mnt\_sp\_lis.ksh | Y | N/A | Y | Y | Green Zone |
| 1.2 | MNT | Listener startup. | Weekly | 100 | 100 | mnt\_st\_lis.ksh | Y | N/A | Y | Y | Green Zone |
| 1.3 | MNT | Database shutdown\*. | Weekly | 100 | 100 | mnt\_sp\_db.ksh | Y | N/A | Y | Y | Green Zone |
| 1.4 | MNT | Database startup. | Weekly | 100 | 100 | mnt\_st\_db.ksh | Y | N/A | Y | Y | Green Zone |
| 1.5 | MNT | Cold backup. | Weekly | 100 | 100 | mnt\_col\_bkp.ksh | Y | N/A | Y | Y | Green Zone |
| 1.6 | MNT | Hot backup. | Daily/Weekly | 100 | 100 | mnt\_hot\_bkp.ksh | Y | N/A | Y | Y |  |
| 1.7 | MNT | Control file backup. | Daily | 100 | 100 | mnt\_ctl\_bkp.ksh | Y | N/A | Y | Y |  |
| 1.8 | MNT | Structure export. | Daily | 100 | 100 | mnt\_exp\_dmp.ksh | Y | N/A | Y | Y |  |
| 1.9 | MNT | Data export. | Daily/Weekly | 100 | 100 | mnt\_exp\_dmp.ksh | Y | N/A | Y | Y |  |
| 1.10 | MNT | File housekeeping. | Daily | 100 | 100 | mnt\_exa\_hkf.ksh | Y | Y | Y | Y | keepdays=30 |
| 1.11 | MNT | Oracle housekeeping. | Daily | 100 | 100 | mnt\_ora\_hkf.ksh | Y | Y | Y | Y | keepdays=30 |
| 1.12 | MNT | Audit housekeeping. | Daily | 100 | 100 | mnt\_aud\_hkf.ksh | Y | Y | Y | Y | keepdays=30 |
| 1.13 | MNT | Arc housekeeping. | Daily | 100 | 100 | mnt\_arc\_hkf.ksh | Y | Y | Y | Y | keepdays=7 |
| 1.14 | MNT | Block corruption. | Daily/Weekly | 100 | 100 | mnt\_anz\_db.ksh | Y | N/A | Y | Y | act=v:lev=d |
| 1.15 | MNT | Database Analyze. | Daily/Weekly | 100 | 100 | mnt\_anz\_db.ksh | Y | N/A | Y | Y | act=g:lev=d |
| 2.1 | MTR | Instance status. | 10 Min | 101 | 100 | mtr\_ins\_sts.ksh | Y | Y | Y | Y |  |
| 2.2 | MTR | Listener status. | 10 Min | 101 | 100 | mtr\_lis\_sts.ksh | Y | Y | Y | Y |  |
| 2.3 | MTR | Server status. | 10 Min | 101 | 100 | mtr\_svr\_sts.ksh | Y | Y | Y | Y |  |
| 2.4 | MTR | Regular ts space. | Daily | 100 | 100 | mtr\_rts\_spa.ksh | Y | N/A | Y | Y | rts\_lmt=90 |
| 2.5 | MTR | Fatal ts space. | 1 Hour | 101 | 100 | mtr\_fts\_spa.ksh | Y | N/A | Y | Y | fts\_lmt=95 |
| 2.6 | MTR | Regular fs space. | Daily | 100 | 100 | mtr\_rfs\_spa.ksh | Y | Y | Y | Y | rfs\_lmt=90 |
| 2.7 | MTR | Fatal fs space. | 1 Hour | 101 | 100 | mtr\_ffs\_spa.ksh | Y | Y | Y | Y | ffs\_lmt=95 |
| 2.8 | MTR | Alert log. | 1 Hour | 101 | 100 | mtr\_alt\_log.ksh | Y | Y | Y | Y | fire=hour |
| 2.9 | MTR | Sys log. | 1 Hour | 101 | 100 | mtr\_sys\_log.ksh | Y | Y | Y | Y | fire=hour |

\* Database shutdown job should be avoided if cold backup job is in place.

#### Example

#################################################################

#### OS Watcher Monitoring #### #################################################################

00 \* \* \* \* /home/oracle/scripts/exa/unix/run\_crn\_job.ksh -f "mtr\_osw\_sts.ksh -a y -r 728

-e 100" > /dev/null 2>&1

### Job Schedule

If possible, it is recommended to schedule the above daily jobs as described below except in Green Zone.

1.00:00 - 06:00 - Backup

2.06:00 - 12:00 - Monitoring (Regular)

3.18:00 - 00:00 - Housekeeping

Schedule weekly jobs during the time when there is minimal business activity in the database.

### Auto Start and Stop

Create the following soft links in /etc/rc?.d directory. These will perform auto start and stop of databases and listeners.

|  |  |  |
| --- | --- | --- |
| **S.No.** | **Link** | **Description** |
| 1 | ln -s ~oracle/scripts/exa/unix/Sora Sora | Auto Start |
| 2 | ln -s ~oracle/scripts/exa/unix/Sora Kora | Auto Stop |

Once the link is created, specify the database role in oratab file at the end of every entry separated by colon (:).

|  |  |  |
| --- | --- | --- |
| **S.No.** | **Server** | **Database Role** |
| 1 | Primary | P |
| 2 | Standby | S |
| 3 | Data Guard | D |

Syntax

<SID>:<ORACLE\_HOME>:<AUTO\_START>:<DATABASE\_ROLE>

Example

ORCL:~oracle/product/10.2.0.1:N:P STBY:~oracle/product/10.2.0.1:N:D

Note: 1. Standard oratab file does not contain <DATABASE\_ROLE>.

2. Always specify AUTO\_START=N.

# Getting Started

## *Database Environment*

After scripts setup is completed, run exa.env script to prepare the environment.

$. ~oracle/scripts/exa/env/exa.env

**Note:** If scripts are copied in different location, then specify the appropriate path. When you run exa.env, it will set to first database environment listed in orarab file.

$Switched to db <DB Name> environment on host <Hostname>!

If no entries exist in oratab, it leaves message as shown below.

$oratab file is blank!

Now you are ready to run any unix script from any directory. To see the help of the script of your choice, simply type the script name with -h or -help argument.

$ksh run\_sql\_file.ksh -help

## *Directory Navigation*

You can navigate to the following directories just by typing following short name at unix prompt.

|  |  |  |  |
| --- | --- | --- | --- |
| **S.No.** | **Directory Name** | **Short Name** | **Description** |
| 0 | exa | exa | Scripts |
| 1 | alt | alt | Alert Files |
| 2 | ash | ash | ASH Files |
| 3 | awr | awr | AWR Files |
| 4 | bat | bat | Windows Scripts |
| 5 | crn | crn | Cron Backup |
| 6 | doc | doc | Documents |
| 7 | env | en | Environment Files |
| 8 | ini | ini | Ini Files |
| 9 | java | jav | Java Files |
| 10 | job | job | User Cron Job Files |
| 11 | lib | lib | Library Files |
| 12 | log | log | Log Files |
| 13 | mas | mas | Master Files |
| 14 | oby | oby | Golden Gate Obey Files |
| 15 | ora | ora | Oracle Support Scripts |
| 16 | osw | osw | OSWatcher |
| 17 | out | out | Troubleshooting Logs\* |
| 18 | pal | pal | 3rd Party Scripts |
| 19 | par | par | Parameter Files |
| 20 | pie | pie | Unix Pipes |
| 21 | plb | plb | Encrypted PL/SQL Code |
| 22 | pls | pls | PL/SQL Scripts |
| 23 | prm | prm | Golden Gate Parameters |
| 24 | psu | psu | PSU Patching |
| 25 | rda | rda | Remote Diagnostic Agent |
| 26 | rmn | rmn | RMAN Scripts |
| 27 | rpt | rpt | Report Files |
| 28 | rsp | rsp | Response Files |
| 29 | shc | shc | Health Check |
| 30 | spl | spl | Special Files |
| 31 | sql | sql | SQL Scripts |
| 32 | sqt | sqt | SQLT |
| 33 | tmp | tmp | Temp Files |
| 34 | tns | tns | tnsnames.ora |
| 35 | unix | unx | Unix Scripts |

\*As out files are intended for troubleshooting purpose e.g. Oracle Support, housekeeping scripts do not remove files from this folder.

# Setup

## *Database*

### stp\_cr\_db.ksh

This script creates database.

Syntax

stp\_cr\_db.ksh –n <db name> -v <db ver> -m <ora home> -x <mp pfx> -p <par

file> -l <label> -t <title> -e <esp>

Parameters

-n Database Name.

-v Database Version(9i|10g|11g|12c).

-m Oracle Home.

-lp [o] Listener Port.

-x [o] Mount Point Directory prefix.

-p [o] Name of par file.

-l [o] Label for rpt/alt/log file.

(Should be alpha numeric with special characters - and \_ only. Blank space is not allowed.)

-t [o] Title for report/alert.

-e [o] email/sms/pager notification [{0|1}{0|1}{0|1}[a-z]].

Defaults

-x “u”

-p ${par\_dir}/cr\_db\_{-v}.par

Example

stp\_cr\_db.ksh -n ORCL -v 10g -m ~oracle/product/10.2.0.1 -x u -p

${par\_dir}/cr\_db\_9i.par -l ORCL -t ORCL-CREATE-DB -e 100x

### stp\_rm\_db.ksh

This script removes database.

Syntax

stp\_rm\_db.ksh -s <sid> -p <parameters> -l <label> -t <title> -e <esp>

Parameters

-s Instance Name.

-x [o] Mount Point Directory prefix.

-p Parameters (act={run|gen}:adm=[y|n]).

-l [o] Label for rpt/alt/log file.

(Should be alpha numeric with special characters - and \_ only. Blank space is not allowed.)

-t [o] Title for report/alert.

-e [o] email/sms/pager notification [{0|1}{0|1}{0|1}[a-z]].

Brace Parameters

act Action.

run -Run.

gen -Generates script.

adm Remove admin directories.

y [d] -Removes.

n -Does not remove.

Defaults

-x “u”

Example

stp\_rm\_db.ksh -s ORCL -p {act=run} -l ORCL -t ORCL-REM-DB -e 100x

# Maintenance

## *Env Settings*

### mnt\_sw\_db.ksh

This script sets database environment of the given sid or selected sid. This script can be used either in interactive mode or non-interactive mode.

Syntax

1. Interactive Mode

mnt\_sw\_db.ksh

1. Non-Interactive Mode

mnt\_sw\_db.ksh <sid>

Alias

swdb

Example

1. Interactive Mode

mnt\_sw\_db.ksh or swdb

1. Non-Interactive Mode

mnt\_sw\_db.ksh smpl

Output

$ swdb

Here are the databases on <hostname>, your sid is currently ORCL

1. ORCL
2. GNRL

Which database would you like to switch to?

## *Listener*

### mnt\_st\_lis.ksh

This script starts listener(s).

Syntax

mnt\_st\_lis.ksh -i <lis> -s <sid> -l <label> -t <title> -e <esp>

Parameters

-i Listener name|ALL.

-s Instance name (Only for single listener).

-l [o] Label for rpt/alt/log file.

(Should be alpha numeric with special characters - and \_ only. Blank space is not allowed.)

-t [o] Title for report/alert.

-e [o] email/sms/pager notification [{0|1}{0|1}{0|1}[a-z]].

Example

mnt\_st\_lis.ksh -i ORCL\_LISTENER -s ORCL -l ORCL -t ORCL-LIS-START -e

100

mnt\_st\_lis.ksh -i ALL -l ORCL -t ORCL-LIS-START-e 100

### mnt\_sp\_lis.ksh

This script stops listener(s).

Syntax

mnt\_sp\_lis.ksh -i <lis> -s <sid> -l <label> -t <title> -e <esp>

Parameters

-i Listener name|ALL.

-s Instance name (Only for single listener).

-l [o] Label for rpt/alt/log file.

(Should be alpha numeric with special characters - and \_ only. Blank space is not allowed.)

-t [o] Title for report/alert.

-e [o] email/sms/pager notification [{0|1}{0|1}{0|1}[a-z]].

Example

mnt\_sp\_lis.ksh -i ORCL\_LISTENER-s ORCL -l ORCL -t ORCL-LIS-STOP -e

100

mnt\_sp\_lis.ksh -i ALL -l ORCL -t ORCL-LIS-STOP -e 100

## *Instance*

### mnt\_st\_db.ksh

This script starts database(s).

Syntax

mnt\_st\_db.ksh -s <sid> -p <parameters> -l <label> -t <title> -e <esp>

Parameters

-s Instance name|ALL.

-p [o] Parameters (opt=[pri|stb|odg]) separated by colon (:) and enclosed in curling braces ({}).

-l [o] Label for rpt/alt/log file.

(Should be alpha numeric with special characters - and \_ only. Blank space is not allowed.)

-t [o] Title for report/alert.

-e [o] email/sms/pager notification [{0|1}{0|1}{0|1}[a-z]].

Brace Parameters

opt Startup option.

pri [d] -Primary database. stb -Standby database. odg -Oracle Data Guard.

Example

mnt\_st\_db.ksh -s ORCL -p {opt=pri} -l ORCL -t ORCL-START -e 100 mnt\_st\_db.ksh -s ORCL -p {opt=odg} -l ORCL -t ORCL-START -e 100

### mnt\_sp\_db.ksh

This script stops database(s).

Syntax

mnt\_sp\_db.ksh -s <sid> -p <parameters> -l <label> -t <title> -e <esp>

Parameters

-s Instance name|ALL.

-p [o] Parameters (opt=[nor|imm|abo]) separated by colon (:) and enclosed in curling braces ({}).

-l [o] Label for rpt/alt/log file.

(Should be alpha numeric with special characters - and \_ only. Blank space is not allowed.)

-t [o] Title for report/alert.

-e [o] email/sms/pager notification [{0|1}{0|1}{0|1}[a-z]].

Brace Parameters

opt Shutdown option.

nor [d] -Normal. imm -Immediate. abo -Abort.

Example

mnt\_sp\_db.ksh -s ORCL -p {opt=imm} -l ORCL -t ORCL-STOP -e 100

## *Agent*

### mnt\_st\_agt.ksh

This script starts agent.

Syntax

mnt\_st\_agt.ksh -d <agent home directory> -l <label> -t <title> -e <esp>

Parameters

-d EM Agent home directory.

-l [o] Label for rpt/alt/log file.

(Should be alpha numeric with special characters - and \_ only. Blank space is not allowed.)

-t [o] Title for report/alert.

-e [o] email/sms/pager notification [{0|1}{0|1}{0|1}[a-z]].

Example

mnt\_st\_agt.ksh -d ~oracle/product/12.1.0.5/agent/agent\_inst -e 100

### mnt\_sp\_agt.ksh

This script stops agent.

Syntax

mnt\_sp\_agt.ksh -d <agent home directory> -l <label> -t <title> -e <esp>

Parameters

-d EM Agent home directory.

-l [o] Label for rpt/alt/log file.

(Should be alpha numeric with special characters - and \_ only. Blank space is not allowed.)

-t [o] Title for report/alert.

-e [o] email/sms/pager notification [{0|1}{0|1}{0|1}[a-z]].

Example

mnt\_sp\_agt.ksh -d ~oracle/product/12.1.0.5/agent/agent\_inst -e 100

## *OSWatcher*

### mnt\_st\_osw.ksh

This script starts OSWatcher.

Syntax

mnt\_st\_osw.ksh -d <OSWatcher directory> -l <label> -t <title> -e <esp>

Parameters

-d OSWatcher directory.

-l [o] Label for rpt/alt/log file.

(Should be alpha numeric with special characters - and \_ only. Blank space is not allowed.)

-t [o] Title for report/alert.

-e [o] email/sms/pager notification [{0|1}{0|1}{0|1}[a-z]].

Example

mnt\_st\_osw.ksh -d ~oracle/scripts/osw -e 100

### mnt\_sp\_osw.ksh

This script stops OSWatcher.

Syntax

mnt\_sp\_osw.ksh -d <OSWatcher directory> -l <label> -t <title> -e <esp>

Parameters

-d OSWatcher directory.

-l [o] Label for rpt/alt/log file.

(Should be alpha numeric with special characters - and \_ only. Blank space is not allowed.)

-t [o] Title for report/alert.

-e [o] email/sms/pager notification [{0|1}{0|1}{0|1}[a-z]].

Example

mnt\_sp\_osw.ksh -d ~oracle/scripts/osw -e 100

## *Backups*

### mnt\_exp\_dmp.ksh

This script does logical export of the given database.

Syntax

mnt\_exp\_dmp.ksh -s <sid> -o <loc sid> -d <dmp directory> -p <par file> -c <cut

files> -z <file size> -n <db env> -k <keep days> -l <label> -t <title> -e <esp>

Parameters

-s Instance name.

-o Local instance name. Use this if connected from remote machine.

-d Dump file directory.

-p Par file name or parfile contents enclosed in curling braces ({}).

-c [o] Split option [y/n].

-z Split file size. Required only if split option is "y".

-n [o] Database environment report [y/n].

-k [o] # of days to keep old backups.

-l [o] Label for rpt/alt/log file.

(Should be alpha numeric with special characters - and \_ only. Blank space is not allowed.)

-t [o] Title for report/alert.

-e [o] email/sms/pager notification [{0|1}{0|1}{0|1}[a-z]].

Defaults

-c “n”

-n “n”

Example

mnt\_exp\_dmp.ksh -s ORCL -d /u02/oradata/ORCL/expbkp -p

~oracle/scripts/exa/par/exp\_cmpd\_9i.par -c y -z 8192m -n n -k 2 -l ORCL-cmpd -t ORCL-DATA-EXP -e 100

### mnt\_imp\_dmp.ksh

This script does logical import from the given compressed dump file/directory.

Syntax

mnt\_imp\_dmp.ksh -s <sid> -o <loc sid> -f <dmp file> -d <dmp directory> -p

<par file> -c <cut files> -l <label> -t <title> -e <esp>

Parameters

-s Instance name.

-o Local instance name. Use this if connected from remote machine.

-f Dump file name.

-d Dump file directory. Required only if split option is "y".

-p Par file name or parfile contents enclosed in curling braces ({}).

-c [o] Split option [y/n].

-l [o] Label for rpt/alt/log file.

(Should be alpha numeric with special characters - and \_ only. Blank space is not allowed.)

-t [o] Title for report/alert.

-e [o] email/sms/pager notification [{0|1}{0|1}{0|1}[a-z]].

Defaults

-c “n”

Example

mnt\_imp\_dmp.ksh -s ORCL -d /u02/oradata/ORCL/expbkp-p "{fromuser=pie touser=pie ignore=y}" -c y -l ORCL-PIE-IMP -t ORCL-PIE-IMP -e 100

### mnt\_col\_bkp.ksh

This script does cold backup of the given database.

Syntax

mnt\_col\_bkp.ksh -s <sid> -d <bkp directory> -p <parameters> -l <label> -t

<title> -e <esp>

Parameters

-s Instance name.

-d Backup file directory.

-p Parameters (act={run|gen}:bsz=[n]:up=[y|n]) separated by colon (:) and enclosed in curling braces ({}).

-l [o] Label for rpt/alt/log file.

(Should be alpha numeric with special characters - and \_ only. Blank space is not allowed.)

-t [o] Title for report/alert.

-e [o] email/sms/pager notification [{0|1}{0|1}{0|1}[a-z]].

Brace Parameters

act Action.

run -Run.

gen -Generates script.

bsz Backup set size.

up Startup option after backup.

y [d] -Brings database up after backup.

n -Does not bring database up after backup.

Example

mnt\_col\_bkp -s ORCL -d /u02/oradata/ORCL/colbkp -p {act=run:bsz=10} -l ORCL -t ORCL-COL-BKP -e 100

### mnt\_hot\_bkp.ksh

This script does hot backup of the given database.

Syntax

mnt\_hot\_bkp.ksh -s <sid> -d <bkp directory> -p <parameters> -l <label> -t

<title> -e <esp>

Parameters

-s Instance name.

-d Backup file directory.

-p Parameters (act={run|gen}) separated by colon (:) and enclosed in curling braces ({}).

-l [o] Label for rpt/alt/log file.

(Should be alpha numeric with special characters - and \_ only. Blank space is not allowed.)

-t [o] Title for report/alert.

-e [o] email/sms/pager notification [{0|1}{0|1}{0|1}[a-z]].

Brace Parameters

act Action.

run -Run.

gen -Generates script.

Example

mnt\_hot\_bkp -s ORCL -d /u02/oradata/ORCL/hotbkp -p {act=run} -l ORCL -t ORCL-HOT-BKP -e 100

### mnt\_tts\_bkp.ksh

This script does transportable tablespaces backup of the given database.

Syntax

mnt\_tts\_bkp.ksh -s <sid> -d <bkp directory> -p <parameters> -l <label> -t

<title> -e <esp>

Parameters

-s Instance name.

-d Backup file directory.

-p Parameters (act={run|gen}:bsz=[n]) separated by colon (:) and enclosed in curling braces ({}).

-l [o] Label for rpt/alt/log file.

(Should be alpha numeric with special characters - and \_ only. Blank space is not allowed.)

-t [o] Title for report/alert.

-e [o] email/sms/pager notification [{0|1}{0|1}{0|1}[a-z]].

Brace Parameters

act Action.

run -Run.

gen -Generates script.

bsz Backup set size.

Example

mnt\_tts\_bkp -s ORCL -d /u02/oradata/ORCL/ttsbkp -p {act=run:bsz=10} -l ORCL -t ORCL-TTS-BKP -e 100

### mnt\_ctl\_bkp.ksh

This script does controlfile backup of the given database.

Syntax

mnt\_ctl\_bkp.ksh -s <sid> -d <bkp directory> -p <parameters> -l <label> -t

<title> -e <esp>

Parameters

-s Instance name.

-d Backup file directory.

-p Parameters (act={run|gen}) separated by colon (:) and enclosed in curling braces ({}).

-l [o] Label for rpt/alt/log file.

(Should be alpha numeric with special characters - and \_ only. Blank space is not allowed.)

-t [o] Title for report/alert.

-e [o] email/sms/pager notification [{0|1}{0|1}{0|1}[a-z]].

Brace Parameters

act Action.

run -Run.

gen -Generates script.

Example

mnt\_ctl\_bkp -s ORCL -d /u02/oradata/ORCL/ctlbkp -p {act=run} -l ORCL -t ORCL-CTL-BKP -e 100

### mnt\_dp\_exp.ksh

This script does data pump export of the given database.

Syntax

mnt\_dp\_exp.ksh -s <sid> -o <loc sid> -d <dmp directory name> -p <par file> -r

<data pump recovery template> -k <keep days> -l <label> -t <title> -e <esp>

Parameters

-s Instance name.

-o Local instance name. Use this if connected from remote machine.

-d [o] Data Pump directory name.

-p [o] Par file name or parfile contents enclosed in curling braces ({}).

-r [o] Data pump recovery template [y/n].

-k [o] # of days to keep old backups.

-l [o] Label for rpt/alt/log file.

(Should be alpha numeric with special characters - and \_ only. Blank space is not allowed.)

-t [o] Title for report/alert.

-e [o] email/sms/pager notification [{0|1}{0|1}{0|1}[a-z]].

Defaults

-d DATA\_PUMP\_DIR

-p dp.par

-r “y”

Example

mnt\_dp\_exp.ksh -s ORCL -l ORCL -t ORCL-DATA-PUMP-EXP -e 100

### tde\_wall\_bkp.ksh

This script does backup of TDE wallet files.

Syntax

tde\_wall\_bkp.ksh -s <sid> -d <backup directory name> -k <keep days> -t <title>

-e <esp>

Parameters

-s Instance name.

-d Backup directory name.

-k # of days to keep old backups.

-t [o] Title for report/alert.

-e [o] email/sms/pager notification [{0|1}{0|1}{0|1}[a-z]].

Example

tde\_wall\_bkp.ksh -s ORCL -d /tmp -k 10 -t ORCL-TDE-WALL-BKP -e 100

## *Housekeeping*

### mnt\_exa\_hkf.ksh

This script removes files present in rpt, alt, log, tmp, spl and pie directories.

Syntax

mnt\_exa\_hkf.ksh -k <keep days> -p <parameters> -l <label> -t <title> -e <esp>

Parameters

-k # of days to keep files.

-p Parameters (act={run|gen}:hst={day|mon}).

-l [o] Label for rpt/alt/log file.

(Should be alpha numeric with special characters - and \_ only. Blank space is not allowed.)

-t [o] Title for report/alert.

-e [o] email/sms/pager notification [{0|1}{0|1}{0|1}[a-z]].

Brace Parameters

act Action.

run -Run.

gen -Generates script.

hst History of mnt\_exc\_crn.log.

Example

mnt\_exa\_hkf.ksh -k 30 –p {act=run:hst=mon} -l ATLANTIC -t ATLANTIC- EXA-FILES -e 100

### mnt\_ora\_hkf.ksh

This script removes files present in bdump, udump and cdump directories.

Syntax

mnt\_ora\_hkf.ksh -k <keep days> -p <parameters> -l <label> -t <title> -e <esp>

Parameters

-k # of days to keep files.

-p Parameters (act={run|gen}:hst={n}:arc=[y|n]).

-l [o] Label for rpt/alt/log file.

(Should be alpha numeric with special characters - and \_ only. Blank space is not allowed.)

-t [o] Title for report/alert.

-e [o] email/sms/pager notification [{0|1}{0|1}{0|1}[a-z]].

Brace Parameters

act Action.

run -Run.

gen -Generates script.

hst History of alert log in days. arc Archival of history.

y [d] -Archives history.

n -Does not archive history.

Example

mnt\_ora\_hkf.ksh -k 30 –p {act=run:hst=7:arc=n} -l ATLANTIC -t ATLANTIC- ORA-FILES -e 100

### mnt\_arc\_hkf.ksh

This script compresses and removes Oracle archive log files.

Syntax

mnt\_arc\_hkf.ksh -k <keep days> -p <parameters> -l <label> -t <title> -e <esp>

Parameters

-k # of days to keep files.

-p Parameters (act={run|gen}).

-l [o] Label for rpt/alt/log file.

(Should be alpha numeric with special characters - and \_ only. Blank space is not allowed.)

-t [o] Title for report/alert.

-e [o] email/sms/pager notification [{0|1}{0|1}{0|1}[a-z]].

Brace Parameters

act Action.

run -Run.

gen -Generates script.

Example

mnt\_arc\_hkf.ksh -k 7 –p {act=run} -l ATLANTIC -t ATLANTIC-ARC-FILES -e

100

### mnt\_aud\_hkf.ksh

This script compresses and removes Oracle audit files.

Syntax

mnt\_aud\_hkf.ksh -k <keep days> -p <parameters> -l <label> -t <title> -e <esp>

Parameters

-k # of days to keep files.

-p Parameters (act={run|gen}).

-l [o] Label for rpt/alt/log file.

(Should be alpha numeric with special characters - and \_ only. Blank space is not allowed.)

-t [o] Title for report/alert.

-e [o] email/sms/pager notification [{0|1}{0|1}{0|1}[a-z]].

Brace Parameters

act Action.

run -Run.

gen -Generates script.

Example

mnt\_aud\_hkf.ksh -k 30 –p {act=run} -l ATLANTIC -t ATLANTIC-AUD-FILES

-e 100

### mnt\_old\_hkf.ksh

This script removes old files.

Syntax

mnt\_old\_hkf.ksh -d <dir> -x <file ext> -k <keep days> -p <parameters> -l

<label> -t <title> -e <esp> Parameters

-d Directory of files.

-x Extension of file names. Specify "ALL" for all files.

-k # of days to keep files.

-p Parameters (act={run|gen}).

-l [o] Label for rpt/alt/log file.

(Should be alpha numeric with special characters - and \_ only. Blank space is not allowed.)

-t [o] Title for report/alert.

-e [o] email/sms/pager notification [{0|1}{0|1}{0|1}[a-z]].

Brace Parameters

act Action.

run -Run.

gen -Generates script.

Example

mnt\_rm\_fls.ksh -d ~oracle -x ALL -k 30 –p {act=run} -l ATLANTIC -t ATLANTIC-OLD-FILES -e 100

### mnt\_asm\_aud.ksh

This script removes old ASM audit files.

Syntax

mnt\_asm\_aud.ksh -k <keep days> -l <label> -t <title> -e <esp>

Parameters

-k # of days to keep files.

-l [o] Label for rpt/alt/log file.

(Should be alpha numeric with special characters - and \_ only. Blank space is not allowed.)

-t [o] Title for report/alert.

-e [o] email/sms/pager notification [{0|1}{0|1}{0|1}[a-z]].

Example

mnt\_asm\_aud.ksh -k 90 -l ATLANTIC -t ATLANTIC-ASM-AUD-FILES -e 100

## *Performance*

### mnt\_anz\_db.ksh

This script analyzes the given database(s).

Syntax

mnt\_anz\_db.ksh -s <sid> -o <loc sid> -p <par file> -l <label> -t <title> -e <esp>

Parameters

-s Instance name|ALL.

-o Local instance name. Use this if connected from remote machine.

-p Par file name or parfile contents separated by colon (:) and enclosed in curling braces ({}).

-l [o] Label for rpt/alt/log file.

(Should be alpha numeric with special characters - and \_ only. Blank space is not allowed.)

-t [o] Title for report/alert.

-e [o] email/sms/pager notification [{0|1}{0|1}{0|1}[a-z]].

Example

mnt\_anz\_db.ksh -s ORCL -p ~oracle/scripts/exa/par/anz\_db.par -l ORCL -t ORCL-ANZ-DB -e 100

mnt\_anz\_db.ksh -s ORCL -p {act=a:lev=d:pct=20:opt=4} -l ORCL -t ORCL- ANZ-DB -e 100

Brace Parameters

act Action.

lev Level.

v -Validate structure.

g -Gather statistics.

b -Both.

d -Database.

s -Schema.

pct [o] Percent. opt [o] Option.

1. [d] -Gather.
2. -Gather empty.
3. -Gather stale.
4. -Gather auto.

# Monitoring

## *Status*

### mtr\_ins\_sts.ksh

This script checks instance status. Syntax

mtr\_ins\_sts.ksh -s <sid> -l <label> -t <title> -e <esp>

Parameters

-s Instance name|ALL.

-l [o] Label for rpt/alt/log file.

(Should be alpha numeric with special characters - and \_ only. Blank space is not allowed.)

-t [o] Title for report/alert.

-e [o] email/sms/pager notification [{0|1}{0|1}{0|1}[a-z]].

Example

mtr\_ins\_sts.ksh -s ORCL -l ORCL -t ORCL-INSANCE-STATUS -e 101

### mtr\_lis\_sts.ksh

This script checks listener status.

Syntax

mtr\_lis\_sts.ksh -i <listener> -l <label> -t <title> -e <esp>

Parameters

-i Listener Name|ALL.

-l [o] Label for rpt/alt/log file.

(Should be alpha numeric with special characters - and \_ only. Blank space is not allowed.)

-t [o] Title for report/alert.

-e [o] email/sms/pager notification [{0|1}{0|1}{0|1}[a-z]].

Example

mtr\_lis\_sts.ksh -i ORCL\_LISTENER -l ORCL -t ORCL-LISTENER-STATUS -e

100

### 1.3. mtr\_host\_ping.ksh

This script pings the given host(s) and alerts if response not received from the host(s).

Syntax

mtr\_host\_ping.ksh -p <par file> -l <label> -t <title> -e <esp>

Parameters

-p [o] Par file name.

-l [o] Label for rpt/alt/log file.

(Should be alpha numeric with special characters - and \_ only. Blank space is not allowed.)

-t [o] Title for report/alert.

-e [o] email/sms/pager notification [{0|1}{0|1}{0|1}[a-z]].

Default

Parameter file is ping.ini.

Example

mtr\_host\_ping.ksh -l smg -t SMG-DOMAIN-SERVER(S)-STATUS -e 101

## *Space*

### mtr\_tbs\_spa.ksh

This script checks tablespace space and reports the tablespace(s) of each or individual database(s) that are exceeding the regular space limit.

Syntax

<esp>

mtr\_tbs\_spa.ksh -s <sid> -o <loc sid> -p <parameters> -l <label> -t <title> -e

Parameters

-s Instance name|ALL.

-o Local instance name. Use this if connected from remote machine.

-p Parameters (rts\_lmt={nn}).

-l [o] Label for rpt/alt/log file.

(Should be alpha numeric with special characters - and \_ only. Blank space is not allowed.)

-t [o] Title for report/alert.

-e [o] email/sms/pager notification [{0|1}{0|1}{0|1}[a-z]].

Brace Parameters

rts\_lmt Threshold limit (% used).

Example

mtr\_tbs\_spa.ksh -s ORCL -p {rts\_lmt=90} -l ORCL -t ORCL-TABLESPACES- SPACE -e 100

### mtr\_asm\_disk.ksh

This script checks asm file system space and reports the file systems that are exceeding the specified threshold.

Syntax

mtr\_asm\_disk.ksh -p <par file> -l <label> -t <title> -e <esp>

Parameters

-p [o] Par file name.

-l [o] Label for rpt/alt/log file.

(Should be alpha numeric with special characters - and \_ only. Blank space is not allowed.)

-t [o] Title for report/alert.

-e [o] email/sms/pager notification [{0|1}{0|1}{0|1}[a-z]].

Default

Parameter file is asm.ini.

Example

mtr\_asm\_disk.ksh -l ATLANTIC -t ATLANTIC-FILE-SYSTEM-SPACE -e 111

### mtr\_host\_disk.ksh

This script checks file system space and reports the file systems that are exceeding the specified threshold.

Syntax

mtr\_host\_disk.ksh -p <par file> -l <label> -t <title> -e <esp>

Parameters

-p [o] Par file name.

-l [o] Label for rpt/alt/log file.

(Should be alpha numeric with special characters - and \_ only. Blank space is not allowed.)

-t [o] Title for report/alert.

-e [o] email/sms/pager notification [{0|1}{0|1}{0|1}[a-z]].

Default

Parameter file is disk.ini.

Example

mtr\_host\_disk.ksh -l ATLANTIC -t ATLANTIC-FILE-SYSTEM-SPACE -e 100

## *Log*

### mtr\_alt\_log.ksh

This script reports errors that occur in database alert log. It can be fired on each day or each hour.

Syntax

mtr\_alt\_log.ksh –s <sid> -p <parameters> -l <label> -t <title> -e <esp>

Parameters

-s Instance name|ALL.

-p Parameters (fire={day|hour}) separated by colon (:) and enclosed in curling braces ({}).

-l [o] Label for rpt/alt/log file.

(Should be alpha numeric with special characters - and \_ only. Blank space is not allowed.)

-t [o] Title for report/alert.

-e [o] email/sms/pager notification [{0|1}{0|1}{0|1}[a-z]].

Brace Parameters

fire Error checking interval.

day -Checks errors once in a day. hour -Checks errors once in an hour.

Example

mtr\_alt\_log.ksh -s ORCL -p {fire=day} -l ORCL -t ORCL-ALT-LOG -e 111

### mtr\_sys\_log.ksh

This script reports errors that occur in server log. It can be fired on each day or each hour.

Syntax

mtr\_sys\_log.ksh -p <parameters> -l <label> -t <title> -e <esp>

Parameters

-p Parameters (fire={day|hour}) separated by colon (:) and enclosed in curling braces ({}).

-l [o] Label for rpt/alt/log file.

(Should be alpha numeric with special characters - and \_ only. Blank space is not allowed.)

-t [o] Title for report/alert.

-e [o] email/sms/pager notification [{0|1}{0|1}{0|1}[a-z]].

Brace Parameters

fire Error checking interval.

day -Checks errors once in a day. hour -Checks errors once in an hour.

Example

mtr\_sys\_log.ksh -s ORCL -p {fire=day} -l ATLANTIC -t ATLANTIC-SYS-LOG

-e 111

## *Replication*

### mtr\_dg\_gap.ksh

To monitor Data Guard gap. Run on primary database.

Syntax

mtr\_dg\_gap.ksh -s <sid> -g <lag> -l <label> -t <title> -e <esp>

Parameters

-s Instance name.

-p Process names separated by colon (:) and enclosed in curling braces ({}).

-g Gap.

-l [o] Label for rpt/alt/log file.

(Should be alpha numeric with special characters - and \_ only. Blank space is not allowed.)

-t [o] Title for report/alert.

-e [o] email/sms/pager notification [{0|1}{0|1}{0|1}[a-z]].

Example

mtr\_dg\_gap.ksh -s ORCL -g 20 -e 100

Defaults

-g 10

### mtr\_gg\_lag.ksh

This script monitors Golden Gate processes and replication lag.

Syntax

mtr\_gg\_lag.ksh -s <sid> -p <process> -g <lag> -l <label> -t <title> -e <esp>

Parameters

-s Instance name|ALL.

-p Process names separated by colon (:) and enclosed in curling braces ({}).

-g Lag in minutes.

-d Golden Gate home directory.

-l [o] Label for rpt/alt/log file.

(Should be alpha numeric with special characters - and \_ only. Blank space is not allowed.)

-t [o] Title for report/alert.

-e [o] email/sms/pager notification [{0|1}{0|1}{0|1}[a-z]].

Example

mtr\_gg\_lag.ksh -s ORCL -p ALL -g 30 -d /home/oracle/product/ggs/19.1.0 -e 100

Defaults

-p ALL

-g 60 Minutes

# Reports

### 1. dar\_mem\_pad.ksh

This script provides memory stats.

Syntax

dar\_mem\_pad.ksh -s <sid> -o <loc sid> -l <label> -t <title> -e <esp>

Parameters

-s Instance name|ALL.

-o Local instance name. Use this if connected from remote machine.

-l [o] Label for rpt/alt/log file.

(Should be alpha numeric with special characters - and \_ only. Blank space is not allowed.)

-t [o] Title for report/alert.

-e [o] email/sms/pager notification [{0|1}{0|1}{0|1}[a-z]].

Example

dar\_mem\_pad.ksh -s ORCL -l ORCL -t ORCL-MEM-PAD -e 100

# Support

### run\_crn\_job.ksh

This script executes the given script from cron. This script does not use .profile of the cron user.

Syntax

run\_crn\_job.ksh -a <scripts\_home> -f <script\_name>

Parameters

-a [o] Scripts home path.

-f Script file name.

Example

12 19 \* \* \* ~oracle/scripts/exa/unix/run\_crn\_job.ksh -f "mnt\_exp\_dmp.ksh -s ORCL -d

/u02/oradata/ORCL/expbkp -p ~oracle/scripts/exa/par/exp\_cmpd\_9i.par -c y -z 8192m -n n -k 2 -l ORCL-cmpd -t ORCL-DATA-EXP -e y" > /dev/null 2>&1

### run\_sql\_file.ksh

This script runs the given SQL file in one or all databases.

Syntax

run\_sql\_file.ksh -s <sid> -o <loc sid> -f <sql file> -l <label> -t <title> -e <email>

Parameters

-s Instance name|ALL.

-o Local instance name. Use this if connected from remote machine.

-f SQL file name.

-l [o] Label for rpt/alt/log file.

(Should be alpha numeric with special characters - and \_ only. Blank space is not allowed.)

-t [o] Title for report/alert.

-e [o] email/sms/pager notification [{0|1}{0|1}{0|1}[a-z]].

Example

run\_sql\_file.ksh -s ALL -f $ora\_dir/db\_env.sql -l ATLANTIC -t DB-ENV -e 100

### run\_she\_file.ksh

This script runs the given shell file. Syntax

run\_she\_file.ksh -f <sql file> -l <label> -t <title> -e <email>

Parameters

-f Shell file name.

-l [o] Label for rpt/alt/log file.

(Should be alpha numeric with special characters - and \_ only. Blank space is not allowed.)

-t [o] Title for report/alert.

-e [o] email/sms/pager notification [{0|1}{0|1}{0|1}[a-z]].

Example

run\_sql\_file.ksh -f $unx\_dir/svr\_stat.sh -l stats -t SERVER-STATS -e 100

### run\_aut\_ssh.ksh

This script transfers files via ssh. Syntax

run\_aut\_ssh.ksh -rs <rmt svr> -sd <src dir> -td <tar dir> -x <file ext> -p

<parameters> -l <label> -t <title> -e <esp>

Parameters

-rs Remote server.

-sd Source directory.

-td Target directory.

-x Extension of file names. Specify "ALL" for all files.

-p Parameters (act={run|gen}:tsz=[n]) separated by colon (:) and enclosed in curling braces ({}).

-l [o] Label for rpt/alt/log file.

(Should be alpha numeric with special characters - and \_ only. Blank space is not allowed.)

-t [o] Title for report/alert.

-e [o] email/sms/pager notification [{0|1}{0|1}{0|1}[a-z]].

Brace Parameters

act Action.

run -Run.

gen -Generates script.

tsz Transfer set size.

Example

run\_aut\_ssh.ksh -rs 150.110.177.219 -sd /u02/oradata/ORCL/colbkp -td

/u02/oradata/ORCL/colbkp -x ALL -p {act=run:tsz=20} -l ORCL -t ORCL-COL-AUT- SSH -e 111

# Recovery

### rco\_mng\_file.ksh

This script manages file(s).

Syntax

rco\_mng\_file.ksh -sd <src dir> -td <tar dir> -x <file ext> -p <parameters> -l

<label> -t <title> -e <esp>

Parameters

-sd Source directory.

-td Target directory.

-x Extension of file names. Specify "ALL" for all files.

-p Parameters (act={run|gen}:cmd={c|u|p|m}:fsz=[n]) separated by colon (:) and enclosed in curling braces ({}).

-l [o] Label for rpt/alt/log file.

(Should be alpha numeric with special characters - and \_ only. Blank space is not allowed.)

-t [o] Title for report/alert.

-e [o] email/sms/pager notification [{0|1}{0|1}{0|1}[a-z]].

Brace Parameters

act Action.

run -Run.

gen -Generates script.

cmd Command.

c -Compress

u -Uncompress

p -Copy

m -Move

fsz File set size.

Example

rco\_mng\_file.ksh -sd /u03/oradata/ORCL -x ALL -p {act=run:cmd=u:fsz=10} -l ORCL -t ORCL-UNC-ARC -e 100x

### rco\_syn\_stb.ksh

This script sync standby database.

Syntax

run\_syn\_stb.ksh –s <sid> -rs <rmt svr> -sd <src dir> -td <tar dir> -p

<parameters> -l <label> -t <title> -e <esp>

Parameters

-s Instance name.

-rs Remote server.

-sd Source directory.

-td Target directory.

-p Parameters (act={run|gen}:fsz=[n]) separated by colon (:) and enclosed in curling braces ({}).

-l [o] Label for rpt/alt/log file.

(Should be alpha numeric with special characters - and \_ only. Blank space is not allowed.)

-t [o] Title for report/alert.

-e [o] email/sms/pager notification [{0|1}{0|1}{0|1}[a-z]].

Brace Parameters

act Action.

run -Run.

gen -Generates script.

fsz File set size.

Example

rco\_syn\_stb.ksh -s ORCL -rs gwmrutidbpdb1 -sd /u03/oradata/ORCL -td

/u03/oradata/ORCL -p {act=run:fsz=10} -l ORCL -e 100

# Miscellaneous

### sho\_file\_cnt.ksh

Shows count of files in current working directory.

Syntax

sho\_file\_cnt.ksh

Example

sho\_file\_cnt.ksh

### sho\_file\_sum.ksh

Shows sum of file sizes in current working directory in mega bytes.

Syntax

sho\_file\_sum.ksh

Example

sho\_file\_sum.ksh

### sho\_disk\_sum.ksh

Shows sum of file system sizes in the server in giga bytes.

Syntax

sho\_disk\_sum.ksh

Example

sho\_disk\_sum.ksh

### sho\_crc\_sum.ksh

Shows cyclical redundancy check sum.

Syntax

sho\_crc\_sum.ksh -d <file dir> -o <file order> -p <parameters> -l <label> -t

<title> -e <esp>

Parameters

-d Directory of file(s).

-o [o] Order of files.

-p Parameters (act={run|gen}:csz=[n]) separated by colon (:) and enclosed in curling braces ({}).

-l [o] Label for rpt/alt/log file.

(Should be alpha numeric with special characters - and \_ only. Blank space is not allowed.)

-t [o] Title for report/alert.

-e [o] email/sms/pager notification [{0|1}{0|1}{0|1}[a-z]].

Brace Parameters

act Action.

run -Run.

gen -Generates script.

csz Crc set size.

Example

sho\_crc\_sum.ksh –d /u02/oradata/ORCL/colbkp –p {act=run:csz=10} –l ORCL –t ORCL-COL-BKP-CRC-SUM –e 100

### sho\_host\_disk.ksh

Shows file system space.

Syntax

sho\_host\_disk.ksh -n <nas > -l <label> -t <title> -e <esp>

Parameters

-n Include NAS.

-l [o] Label for rpt/alt/log file.

(Should be alpha numeric with special characters - and \_ only. Blank space is not allowed.)

-t [o] Title for report/alert.

-e [o] email/sms/pager notification [{0|1}{0|1}{0|1}[a-z]].

Example

sho\_host\_disk.ksh -n y –l <hostname> –t HOST-DISK-REPORT –e 100

### sho\_pat\_con.ksh

To check one off patch conflict.

Syntax

sho\_pat\_con.ksh -d <patch directory > -l <label> -t <title> -e <esp>

Parameters

-d Patch directory.

-l [o] Label for rpt/alt/log file.

(Should be alpha numeric with special characters - and \_ only. Blank space is not allowed.)

-t [o] Title for report/alert.

-e [o] email/sms/pager notification [{0|1}{0|1}{0|1}[a-z]].

Example

sho\_pat\_con.ksh -d ~oracle/patches -l <hostname> -t PATCH-CONFLICT -e 100

### sho\_aix\_node.ksh

Shows nodes in AIX cluster.

Syntax

sho\_aix\_node.ksh

Example

sho\_aix\_node.ksh

# Troubleshooting

### Problem #1

**Error:** ": command not found"

**Resolution:** 1. Copy the directory contents in ASCII format. env, ini, lib/exa.lib, par, unix/mnt\_sw\_db.ksh.

2. Make sure ksh is present in lib folder. If not, copy the respective ksh located in lib folder.

# SQL Scripts

The following SQL queries included in the scripts to support Oracle databases.

|  |  |  |
| --- | --- | --- |
| **#** | **Name** | **Purpose** |
| 0 | exa\_info.sql | Shows Exadime scripts release. |
| 1 | act\_ses\_info.sql | Shows all session details. |
| 2 | app\_user\_free.sql | To show the space used by app users in the database. |
| 3 | ash\_pga\_sql.sql | Shows details of top PGA consuming SQLs captured in ASH. |
| 4 | asm\_disk\_list.sql | shows ASM disks. |
| 5 | asm\_free.sql | Shows free space in ASM disk groups. |
| 6 | awr\_base\_line.sql | To create baseline for good SQL plan captured in AWR. |
| 7 | awr\_bw\_hist.sql | Shows bandwidth usage history captured in awr. |
| 8 | awr\_info.sql | Shows AWR configuration details. |
| 9 | awr\_cpu\_hist.sql | CPU usage history captured in awr. |
| 10 | awr\_io\_hist.sql | Shows I/O usage history captured in awr. |
| 11 | awr\_iops\_hist.sql | Shows IOPS history captured in awr. |
| 12 | awr\_load\_sts.sql | Loads SQL Tuning Set from AWR. |
| 13 | awr\_inst\_hist.sql | Instance usage history captured in awr. |
| 14 | awr\_plan\_hist.sql | To show AWR plan changes for SQL Id. |
| 15 | awr\_set\_ret.sql | To set AWR retention period. |
| 16 | awr\_snap\_list.sql | Shows list of snapshots in awr. |
| 17 | awr\_sql\_list.sql | Shows captured SQL in awr. |
| 18 | awr\_sql\_plan.sql | Shows SQL Plan for the given SQL ID. |
| 19 | awr\_sql\_text.sql | Shows SQL text for the given sql\_id captured in awr. |
| 20 | awr\_sys\_hist.sql | Shows sysmetric history captured in awr. |
| 21 | awr\_tab\_io.sql | Table i/o history captured in awr. |
| 22 | awr\_tbs\_hist.sql | Shows tablespace growth statistics captured in AWR. |
| 23 | awr\_top\_wait.sql | Top wait events captured in awr. |
| 24 | awr\_tps\_hist.sql | Shows transactions per second history captured in awr. |
| 25 | awr\_uns\_plan.sql | To show unstable plans. |
| 26 | cr\_ctl.sql | To unload the data into a flat file. This generates SQL Loader control file & data file. |
| 27 | cr\_pf.sql | Generates profile creation script. |
| 28 | cr\_rl.sql | Generates non system roles (12c). |
| 29 | cr\_sch.sql | Generates schema creation script for the given schema. |
| 30 | cr\_seed\_ts.sql | Generates non system permanent seed tablespace creation script with auto extend. |
| 31 | cr\_ts.sql | Generates non system permanent tablespace creation script. |
| 32 | cr\_us.sql | Generates user creation script (12c). |
| 33 | cre\_tune\_set.sql | To create SQL Tuning Set. |

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| --- | --- | --- |
| 34 | db\_info.sql | Shows database information. |
| 35 | del\_dat.sql | Deletes rows in the current schema. |
| 36 | del\_dup.sql | The following script deletes the duplicate records in the given table. |
| 37 | dg\_err.sql | Checks Data Guard error in primary. |
| 38 | dg\_gap.sql | To display data guard archive log gap. |
| 39 | dg\_info.sql | To display data guard information. |
| 40 | dg\_mrp\_sts.sql | Shows MRP process status in standby. Run in primary database. |
| 41 | dg\_mtr.sql | Data Guard Monitoring. This shows ARC, MRP and RFS processes status. |
| 42 | dg\_set\_ma.sql | Sets standby db to max availability. |
| 43 | dg\_set\_mp.sql | Sets standby db to max protection. |
| 44 | dg\_sp\_mrp.sql | To stop managed recovery process. |
| 45 | dg\_sp\_stb.sql | To stop MRP and standby database. |
| 46 | dg\_st\_mrp.sql | To start managed recovery process. |
| 47 | dg\_st\_stb.sql | To start standby database and MRP. |
| 48 | dg\_start.sql | To start Data Guard. |
| 49 | dg\_stop.sql | To stop Data Guard. |
| 50 | dg\_sts.sql | Data Guard Status |
| 51 | dg\_sw\_log.sql | To switch logfile. |
| 52 | dg\_swo\_pri.sql | To switchover standby db to primary. |
| 53 | dg\_swo\_stb.sql | To switchover primary db to standby. |
| 54 | dg\_swo\_sts.sql | Shows data guard switch over status. |
| 55 | dp\_job\_prg.sql | To check the data pump job progress. |
| 56 | dp\_reco.sql | The following script shows the tablespace & user space utilization and their mapping to help during data pump restore. |
| 57 | fra\_free.sql | Shows free space in flash recovery area. |
| 58 | gen\_sch\_ro.sql | This script makes schema read only. |
| 59 | gen\_sch\_rw.sql | This script makes schema read write. |
| 60 | ggp.sql | This script spools the output to a file named ggp.out |
| 61 | ggs.sql | To create Golden Gate User. |
| 62 | ggt.sql | To create Golden Gate Tablespace. |
| 63 | inst\_info.sql | To show instance details. |
| 64 | last\_acc\_tab.sql | Shows the last accessed tables. |
| 65 | list\_base\_line.sql | Lists all baselines. |
| 66 | load\_sql\_plan.sql | Loads desired SQL plan into SQL Plan Baseline from SQL Tuning Set. |
| 67 | pin\_tune\_task.sql | To load the given SQL profile. |
| 68 | rmn\_bct\_info.sql | Shows RMAN block change tracking information. |
| 69 | rmn\_bkp\_hist.sql | Shows RMAN backup details. |
| 70 | rmn\_cfg.sql | RMAN Configuration in 10g. |
| 71 | rmn\_cmp\_hot\_bkp.sql | RMAN complete hot backup. |

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| 72 | rmn\_col\_bkp.sql | RMAN Cold Backup. |
| 73 | rmn\_hkf\_cat.sql | RMAN with catalog housekeeping. |
| 74 | rmn\_hkf\_ctl.sql | RMAN without catalog housekeeping. |
| 75 | rmn\_inc\_hot\_bkp.sql | RMAN incremental hot backup. |
| 76 | rmn\_job\_prg.sql | Shows RMAN job progress. |
| 77 | rmn\_rco\_dsk\_bkp.sql | RMAN restoration from disk. |
| 78 | rmn\_rco\_fra\_bkp.sql | RMAN restoration from FRA. |
| 79 | rmn\_ses\_info.sql | Shows RMAN session details. |
| 80 | rmn\_stb\_bkp.sql | RMAN backup for standby database. |
| 81 | rmn\_stb\_stp.sql | Standby setup using RMAN backup. |
| 82 | run\_sql\_mtr.sql | Run SQL Monitor to for given SQL Id. |
| 83 | sch\_aud\_act.sql | Shows audit actions in the database. |
| 84 | sch\_dis\_con.sql | To disable constraints in the given schema. |
| 85 | sch\_dis\_rcon.sql | To disable referencial constraints in the given schema. |
| 86 | sch\_drop\_obj.sql | To drop all existing objects in the given schema. |
| 87 | sch\_ena\_con.sql | To enable constraints in the given schema. |
| 88 | sch\_ena\_rcon.sql | To enable referencial constraints in the given schema. |
| 89 | sch\_obj\_gra.sql | This script provides object grants from source schema to the given target schema. |
| 90 | sch\_row\_cnt.sql | To count the number of rows of each table in the given schema. |
| 91 | sch\_ses\_info.sql | Shows session details for the given schema. |
| 92 | sch\_tab\_frag.sql | Shows table fragmentation for the given schema. |
| 93 | sch\_tab\_gra.sql | This script provides table grants from source schema to the given target schema. |
| 94 | ses\_info.sql | Shows all session details. |
| 95 | ses\_long\_ops.sql | Shows long running sessions. |
| 96 | ses\_sp\_dtrc.sql | This script stops deep tracing the sql session for the given sid, serial#. |
| 97 | ses\_sp\_trc.sql | The following script stop tracing the sql session for the given sid, serial#. |
| 98 | ses\_st\_dtrc.sql | This script starts deep tracing the sql session for the given sid, serial#. |
| 99 | ses\_st\_trc.sql | The following script start tracing the sql session for the  given sid, serial#. |
| 100 | set\_my\_tfi.sql | Sets my trace file identifier. |
| 101 | sho\_act\_sort.sql | To display the active sorts information. |
| 102 | sho\_all\_ses.sql | Shows all user session details. |
| 103 | sho\_alt\_log.sql | Shows alert log errors. |
| 104 | sho\_arc\_log.sql | Shows arch log switches (1296168.1). |
| 105 | sho\_asm\_hwm.sql | High water mark in the data files for the given ASM disk group. |
| 106 | sho\_aud\_act.sql | Shows audit actions in the database. |
| 107 | sho\_aux\_occ.sql | Shows sysaux occupants. |

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| 108 | sho\_bc\_obj.sql | This script shows objects in b/c. |
| 109 | sho\_bit.sql | Shows Oracle Bit (32-Bit or 64-Bit). |
| 110 | sho\_blk\_ses.sql | Shows blocked sessions including SQL text. |
| 111 | sho\_col\_com.sql | This script shows column comments. |
| 112 | sho\_dat\_dic.sql | This script shows data dictionary. |
| 113 | sho\_db\_comp.sql | To display database components. |
| 114 | sho\_db\_hwm.sql | High water mark in all data files. |
| 115 | sho\_db\_io.sql | This script shows the I/O generated per day. |
| 116 | sho\_db\_lock.sql | This script shows locks in the database. |
| 117 | sho\_db\_prop.sql | To display database properties. |
| 118 | sho\_db\_psu\_11g.sql | To display database patchset update in 11g. |
| 119 | sho\_db\_psu\_12c.sql | To display database patchset update in 12c. |
| 120 | sho\_db\_psu\_19c.sql | To display database patchset update in 19c. |
| 121 | sho\_db\_scn.sql | Shows database SCN. |
| 122 | sho\_db\_time.sql | shows the database current time in 100th's of a second. |
| 123 | sho\_dba\_dir.sql | Shows DBA directories. |
| 124 | sho\_dead\_lock.sql | This script shows dead locks in the database. |
| 125 | sho\_dep\_tab.sql | This script shows child/dependent tables for the given table. |
| 126 | sho\_df\_hwm.sql | High water mark in given data file. |
| 127 | sho\_eg.sql | Show script example. |
| 128 | sho\_exc\_pls.sql | To list the sessions that are currently executing stored code. |
| 129 | sho\_fk\_col.sql | This script shows the Foreign Key column(s) in the given table. |
| 130 | sho\_gg\_cap.sql | Shows Golden Gate capture details. |
| 131 | sho\_gg\_scn.sql | Shows SCN that can be used to start Golden Gate extract. |
| 132 | sho\_hit\_ratio.sql | To identify the hit ratio. |
| 133 | sho\_host\_cpu.sql | Show host cpu utilization. |
| 134 | sho\_idx\_col.sql | This query shows the indexed columns of the given table. |
| 135 | sho\_inv\_obj.sql | This script shows invalid objects. |
| 136 | sho\_keep\_obj.sql | This script shows objects in k/p. |
| 137 | sho\_mem\_dtl.sql | Query v$memory\_dynamic\_components. Show sizes in KB. |
| 138 | sho\_my\_ses.sql | Shows my session details. |
| 139 | sho\_my\_trc.sql | Shows my session trace files. |
| 140 | sho\_nsp.sql | Shows Non System Profiles (11g). |
| 141 | sho\_nsr.sql | Shows Non System Roles (11g). |
| 142 | sho\_nsu.sql | Shows Non System Users (12c). |
| 143 | sho\_obj\_cnt.sql | This script shows object count. |
| 144 | sho\_obj\_lock.sql | This script shows sessions info for the given locked object. |

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| 145 | sho\_ora\_home.sql | Shows Oracle Home directory. |
| 146 | sho\_pid.sql | Shows process details. |
| 147 | sho\_pk\_col.sql | This script shows the primary key column(s) in the given table. |
| 148 | sho\_rac\_con.sql | This script shows RAC connections. |
| 149 | sho\_sch\_bw.sql | Schema's current bandwith usage. |
| 150 | sho\_sch\_lock.sql | This script shows sessions info for the given schema. |
| 151 | sho\_sch\_ses.sql | Shows session details for the given schema. |
| 152 | sho\_sch\_size.sql | Shows size of the given schema. |
| 153 | sho\_scn\_log.sql | Shows log seq# for the given SCN. |
| 154 | sho\_ses\_dtl.sql | Shows session details. |
| 155 | sho\_ses\_lock.sql | This script shows locked objects for the given session. |
| 156 | sho\_ses\_trc.sql | Shows session trace files. |
| 157 | sho\_sid.sql | Shows session details. |
| 158 | sho\_sps.sql | Statspack Snapshots |
| 159 | sho\_sql\_plan.sql | Shows SQL Plan for the given SQL ID. |
| 160 | sho\_su.sql | Shows System Users (12c) |
| 161 | sho\_sys\_ses.sql | Shows system/background session details. |
| 162 | sho\_tab\_com.sql | This script shows table comments. |
| 163 | sho\_tab\_size.sql | This script shows the table size. |
| 164 | sho\_tde\_wall.sql | To display TDE wallet details. |
| 165 | sho\_top\_sql.sql | Shows top ten resource consuming sql(s). |
| 166 | sho\_tpd.sql | Shows transactions per day. |
| 167 | sho\_ts\_hwm.sql | High water mark in given tablespace. |
| 168 | sho\_tx\_sql.sql | Shows sql that causes enq: TX - row lock contention wait. |
| 169 | user\_info.sql | Shows details of the given user. |
| 170 | shrink\_db.sql | To deallocate the space above high watermark in all the data files. |
| 171 | shrink\_ts.sql | To deallocate the space above high watermark in the given tablespace. |
| 172 | sid\_ses\_info.sql | Shows session details for the given sid. |
| 173 | sql\_ses\_info.sql | Shows session details for the given sql id. |
| 174 | sql\_svr\_bkp.sql | This script does SQL Server backup. |
| 175 | run\_tune\_task.sql | Creates SQL Tuning Task and reports advisor recommendations. |
| 176 | stat\_job\_dtl.sql | Shows auto statistics gathering job configuration details. |
| 177 | stat\_job\_hist.sql | Shows auto statistics gathering job history. |
| 178 | stat\_job\_off.sql | To disable statistics gathering job. |
| 179 | stat\_job\_on.sql | To enable statistics gathering job. |
| 180 | stat\_job\_reset.sql | To reset statistics gathering job. |
| 181 | stat\_job\_run.sql | To run statistics gathering job. |
| 182 | stat\_job\_sch.sql | To gather schema statistics. |
| 183 | stat\_job\_ses.sql | Shows auto statistics gathering job sessions. |

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| --- | --- | --- |
| 184 | stat\_job\_set.sql | To adjust statistics gathering job settings. |
| 185 | stat\_job\_stop.sql | To stop statistics gathering job. |
| 186 | stat\_job\_tab.sql | To gather table statistics. |
| 187 | stp\_ora\_jvm.sql | To setup JVM feature in Oracle. |
| 188 | stp\_ora\_xml.sql | To setup XML feature in Oracle. |
| 189 | stp\_pvf.sql | Custom Password Verify Function. |
| 190 | stp\_rco.sql | Database Recovery Setup. |
| 191 | stp\_sec.sql | Database Security Setup |
| 192 | syn\_trg.sql | Synonym trigger to avoid synonyms. |
| 193 | tab\_part\_col.sql | Shows table partition columns. |
| 194 | tab\_part\_stat.sql | Shows table partition statistics. |
| 195 | temp\_free.sql | Shows free space in all temp tablespaces. |
| 196 | top\_big\_idx.sql | Shows top big indexes in the database. |
| 197 | top\_big\_tab.sql | Shows top big tables in the database. |
| 198 | top\_cur\_dtl.sql | Shows details of top open cursors. |
| 199 | top\_cur\_ses.sql | Shows details of top open cursor sessions. |
| 200 | top\_pga\_ses.sql | Shows details of top PGA consuming sessions. |
| 201 | ts\_frag.sql | This script shows fragmentation at tablespace level. |
| 202 | ts\_free.sql | Shows free space in all permanent tablespaces. |
| 203 | sho\_data\_file.sql | Datafile info for the given tablespace. |
| 204 | ts\_us.sql | The following script shows mapping between tablespaces and users. |
| 205 | tts\_cfg\_10g.sql | Generates TTS migration scripts. |
| 206 | tts\_gen\_scr.sql | Generates TTS migration scripts. |
| 207 | undo\_free.sql | Shows free space in all undo tablespaces. |
| 208 | us\_ts.sql | The following script shows mapping between users and tablespaces. |
| 209 | user\_free.sql | The following script shows the space used by each user in the database. |
| 210 | sch\_inv\_obj.sql | This script shows invalid objects for the given schema. |
| 211 | sch\_obj\_cnt.sql | This script shows object count for the given schema. |
| 212 | flush\_sq.sql | To flush SQL from the shared pool. |
| 213 | awr\_data\_snap\_hist.sql | Shows database growth by each snap captured in AWR. |
| 214 | awr\_data\_day\_hist.sql | Shows database growth by each day captured in AWR. |
| 215 | awr\_data\_week\_hist.sql | Shows weekly database growth captured in AWR. |
| 216 | rmn\_reco\_time.sql | Shows the last successful RMAN backup time. |
| 217 | stat\_job\_win.sql | Shows stat job schedular windows. |
| 218 | list\_sql\_prof.sql | Shows SQL Profiles. |
| 219 | sys\_inv\_obj.sql | This script shows system invalid objects. |
| 220 | awr\_undo\_hist.sql | Shows undo tablespace usage captured in awr. |
| 221 | sho\_idx\_size.sql | This script shows the index size for the given table. |
| 222 | sho\_db\_rp.sql | Shows database restore points. |
| 223 | sga\_free.sql | Shows free space in SGA. |
| 224 | awr\_tune\_task.sql | Creates SQL Tuning Task for SQL captured in AWR |

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| --- | --- | --- |
|  |  | and reports advisor recommendations. |
| 225 | drop\_tune\_task.sql | To drop SQL Tuning task. |
| 226 | drop\_sql\_prof.sql | To drop SQL profile. |
| 227 | dis\_sql\_prof.sql | To disable SQL profile. |
| 228 | ena\_sql\_prof.sql | To enable SQL profile. |
| 229 | ash\_blk\_ses.sql | Shows blocked sessions captured in ASH. |
| 230 | sho\_last\_sql.sql | To display last sql ran in the current session. |
| 231 | dg\_mrp\_info.sql | Shows Data Guard managed recovery process (MRP) information. Run in any standby node. |
| 232 | awr\_wait\_hist.sql | History of given wait event captured in awr. |
| 233 | run\_expl\_plan.sql | Run explain plan for the given SQL text. |
| 234 | sho\_expl\_plan.sql | Shows explain plan. |
| 235 | cr\_tab.sql | Generates table creation script for the given table. |
| 236 | cr\_seq.sql | Generates sequence creation script for the given sequence. |
| 237 | sho\_temp\_file.sql | Temp file info for the given temp tablespace. |
| 238 | sho\_sga\_adv.sql | Shows SGA Advisory recommendations. |
| 239 | sho\_imp\_rpm.sql | To monitor insert/import speed. |
| 240 | sho\_tde\_tbs.sql | Shows encrypted tablespaces details. |
| 241 | ssl\_info.sql | To verify if SSL is being used in the connection. |
| 242 | stat\_win\_on.sql | To enable statistics gathering job window. |
| 243 | stat\_win\_off.sql | To disable statistics gathering job window. |
| 244 | awr\_tbs\_day\_hist.sql | Tablespace growth by each day captured in AWR. |
| 245 | stat\_win\_on.sql | To enable statistics gathering job window. |
| 246 | stat\_win\_off.sql | To disable statistics gathering job window. |
| 247 | stat\_win\_list.sql | Shows all available schedular windows. |
| 248 | stat\_win\_task.sql | To check client/task for the given gathering job window. |
| 249 | stat\_adv\_off.sql | To disable space and tuning advisor statistics gathering. |
| 250 | stat\_adv\_on.sql | To enable space and tuning advisor statistics gathering. |
| 251 | stat\_task\_list.sql | To check client/task for the given gathering job window. |

# Reference

### 1. Interpretations

[o] -Optional.

[d] -Default.

P&S -Production and Standby U&D -UAT and Development

# Software

The following 3rd party software included in the scripts.

### OSWatcher

Oracle OSWatcher Black Box (OSWbb) collects and archives operating system and network metrics that you can use to diagnose performance issues. OSWbb operates as a set of background processes on the server and gathers data on a regular basis, invoking such Unix utilities as **vmstat**, **netstat**, **iostat**, and **top**.

### SQLT

SQLT is a tool to diagnose the performance of quires by their sql\_ids. It suggests the improvement areas of an sql query by inputting the sql id.

# Contact Us

For any issues, queries or comments please contact us at [support@exadime.com](mailto:support@exadime.com).