adrci: A survival guide for the DBA

Starting with 11gR1, we have a new way to deal with Oracle Errors & Tracefiles: There is now a special command line utility dedicated for that purpose called adrci (Automatic Diagnostic Repository Command Interpreter). This posting is intended to show you the (in my view) essential commands, a DBA ought to know in order to use it. We will look at

1. Viewing the alert.log
2. The relation between incident & problem
3. Creation of Packages & ZIP files to send to Oracle Support
4. Managing, especially purging tracefiles

I will at first create a problem. Don't do that with your Production Database! Especially: Never do DML on dictionary tables!

```
[oracle@uhesse ~]$ sqlplus / as sysdba

SQL*Plus: Release 11.2.0.2.0 Production on Wed Jun 1 10:25:06 2011

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Connected to:
Oracle Database 11g Enterprise Edition Release 11.2.0.2.0 - 64bit Production
With the Partitioning, OLAP, Data Mining and Real Application Testing options

SQL> select * from v$version;

BANNER
--------------------------------------------------------------------------------
Oracle Database 11g Enterprise Edition Release 11.2.0.2.0 - 64bit Production
PL/SQL Release 11.2.0.2.0 - Production
CORE    11.2.0.2.0      Production
TNS for Linux: Version 11.2.0.2.0 - Production
NLSRTL Version 11.2.0.2.0 - Production

SQL> show parameter diagnostic

NAME                                 TYPE        VALUE
------------------------------------ ----------- ------------------------------
diagnostic_dest                      string      /u01/app/oracle

SQL> grant dba to adam identified by adam;

Grant succeeded.

SQL> connect adam/adam
```

```
Connected.
SQL> create table t (n number);

Table created.

SQL> select object_id from user_objects;

 OBJECT_ID
----------
     75719

SQL> connect / as sysdba
Connected.
SQL> update tab$ set cols=2 where obj#=75719;

1 row updated.

SQL> commit;

Commit complete.

SQL> alter system flush shared_pool;

System altered.

SQL> connect adam/adam
Connected.
SQL> select * from t;
select * from t
              *
ERROR at line 1:
ORA-03113: end-of-file on communication channel
Process ID: 2236
Session ID: 29 Serial number: 9
```

I flushed the Shared Pool to get the Data Dictionary Cache empty. Else the select may not crash the session as it did. Imagine the user calls me now on the phone. Our first idea as an experienced DBA: We look at the alert.log! Right so. Please notice that we now have two different kinds of the alert.log.

One is present in the conventional text format, per OFA in $ORACLE_BASE/diag/rdbms/name of the db/name of the instance/trace This location is determined by the new initialization parameter DIAGNOSTIC_DEST, while BACKGROUND_DUMP_DEST is deprecated in 11g.

1. Viewing the alert.log

The other one is in XML format placed in $ORACLE_BASE/diag/rdbms/name of the db/name of the instance/alert This version of the alert.log is accessed by adrci:

```
[oracle@uhesse ~]$ adrci

ADRCI: Release 11.2.0.2.0 - Production on Wed Jun 1 10:20:08 2011

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ADR base = "/u01/app/oracle"
adrci> show home
ADR Homes:
diag/tnslsnr/uhesse/listener
diag/rdbms/orcl/orcl
```

Please notice that we have different ADR Homes. In my case only two, because I am not using Grid Infrastructure on this Demo System, else there would be another one. I specify my Database Home first. Then I look at the alert.log. Good news

if you are on Windows: Finally, you can tail -f your alert.log also 🙂

```
adrci> set home diag/rdbms/orcl/orcl
adrci> show alert -tail -f
2011-06-01 10:16:35.337000 +02:00
db_recovery_file_dest_size of 4032 MB is 0.00% used. This is a
user-specified limit on the amount of space that will be used by this
database for recovery-related files, and does not reflect the amount of
space available in the underlying filesystem or ASM diskgroup.
Starting background process CJQ0
CJQ0 started with pid=21, OS id=2204
2011-06-01 10:18:42.668000 +02:00
Exception [type: SIGSEGV, Address not mapped to object] [ADDR:0x0] [PC:0x90D891A, qcstda()+702] [flags: 0x
Errors in file /u01/app/oracle/diag/rdbms/orcl/orcl/trace/orcl_ora_2236.trc  (incident=6153):
ORA-07445: exception encountered: core dump [qcstda()+702] [SIGSEGV] [ADDR:0x0] [PC:0x90D891A] [Address no
Incident details in: /u01/app/oracle/diag/rdbms/orcl/orcl/incident/incdir_6153/orcl_ora_2236_i6153.trc
Use ADRCI or Support Workbench to package the incident.
See Note 411.1 at My Oracle Support for error and packaging details.
2011-06-01 10:18:47.518000 +02:00
Dumping diagnostic data in directory=[cdmp_20110601101847], requested by (instance=1, osid=2236), summary=
2011-06-01 10:18:48.727000 +02:00
Sweep [inc][6153]: completed
Sweep [inc2][6153]: completed
```

2. The relation between Incident & Problem

You see the incident was recorded in the alert.log. And it tells you “Use ADRCI or Support Workbench to package the incident.” We will soon see how to do that. First I’d like to explain the relation between incident and problem: An incident is the concrete occurrence of a problem. In other words: The same problem may have multiple incidents. To show that, I will open another terminal and do again a select against the table t, while still tailing the alert log from the first session.

Second terminal:

```
[oracle@uhesse ~]$ sqlplus adam/adam

SQL*Plus: Release 11.2.0.2.0 Production on Wed Jun 1 10:21:52 2011

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Connected to:
Oracle Database 11g Enterprise Edition Release 11.2.0.2.0 - 64bit Production
With the Partitioning, OLAP, Data Mining and Real Application Testing options

SQL> select * from t where n=42;
select * from t where n=42
                        *
ERROR at line 1:
ORA-03113: end-of-file on communication channel
Process ID: 2299
Session ID: 36 Serial number: 11
```

First terminal:

```
2011-06-01 10:21:31.367000 +02:00
Starting background process SMCO
SMCO started with pid=19, OS id=2268
2011-06-01 10:22:08.781000 +02:00
Exception [type: SIGSEGV, Address not mapped to object] [ADDR:0x0] [PC:0x90D891A, qcstda()+702] [flags: 0x
Errors in file /u01/app/oracle/diag/rdbms/orcl/orcl/trace/orcl_ora_2299.trc  (incident=6201):
ORA-07445: exception encountered: core dump [qcstda()+702] [SIGSEGV] [ADDR:0x0] [PC:0x90D891A] [Address no
Incident details in: /u01/app/oracle/diag/rdbms/orcl/orcl/incident/incdir_6201/orcl_ora_2299_i6201.trc
Use ADRCI or Support Workbench to package the incident.
```

```
See Note 411.1 at My Oracle Support for error and packaging details.
2011-06-01 10:22:11.135000 +02:00
Dumping diagnostic data in directory=[cdmp_20110601102211], requested by (instance=1, osid=2299), summary=
2011-06-01 10:22:13.370000 +02:00
Sweep [inc][6201]: completed
Sweep [inc2][6201]: completed
```

I have seen the second incident recorded. I exit out of the tail -f with CTRL+C and continue:

```
adrci> show problem

ADR Home = /u01/app/oracle/diag/rdbms/orcl/orcl:
*************************************************************************
PROBLEM_ID           PROBLEM_KEY                                             LAST_INCIDENT        LAST
-------------------- ------------------------------------------------------- -------------------- ----
1                    ORA 7445 [qcstda()+702]                                 6201                 2011
1 rows fetched
```

So I have one problem with the ID 1 and the last incident occurred at 10:22. Are there more?

```
adrci> show incident

ADR Home = /u01/app/oracle/diag/rdbms/orcl/orcl:
*************************************************************************
INCIDENT_ID          PROBLEM_KEY                                             CREATE_TIME
-------------------- ------------------------------------------------------- ---------------------------
6153                 ORA 7445 [qcstda()+702]                                 2011-06-01 10:18:42.99500
6201                 ORA 7445 [qcstda()+702]                                 2011-06-01 10:22:08.92400
2 rows fetched
```

I want to see some more detail about the incidents:

```
adrci> show incident -mode detail -p "incident_id=6201"

ADR Home = /u01/app/oracle/diag/rdbms/orcl/orcl:
*************************************************************************

*********************************************************
INCIDENT INFO RECORD 1
*********************************************************
   INCIDENT_ID                   6201
   STATUS                        ready
   CREATE_TIME                   2011-06-01 10:22:08.924000 +02:00
   PROBLEM_ID                    1
   CLOSE_TIME
   FLOOD_CONTROLLED              none
   ERROR_FACILITY                ORA
   ERROR_NUMBER                  7445
   ERROR_ARG1                    qcstda()+702
   ERROR_ARG2                    SIGSEGV
   ERROR_ARG3                    ADDR:0x0
   ERROR_ARG4                    PC:0x90D891A
   ERROR_ARG5                    Address not mapped to object
   ERROR_ARG6
   ERROR_ARG7
   ERROR_ARG8
   ERROR_ARG9
   ERROR_ARG10
   ERROR_ARG11
   ERROR_ARG12
   SIGNALLING_COMPONENT          SQL_Parser
   SIGNALLING_SUBCOMPONENT
   SUSPECT_COMPONENT
   SUSPECT_SUBCOMPONENT
```

```
   ECID
   IMPACTS                       0
   PROBLEM_KEY                   ORA 7445 [qcstda()+702]
   FIRST_INCIDENT                6153
   FIRSTINC_TIME                 2011-06-01 10:18:42.995000 +02:00
   LAST_INCIDENT                 6201
   LASTINC_TIME                  2011-06-01 10:22:08.924000 +02:00
   IMPACT1                       0
   IMPACT2                       0
   IMPACT3                       0
   IMPACT4                       0
   KEY_NAME                      ProcId
   KEY_VALUE                     25.3
   KEY_NAME                      Client ProcId
   KEY_VALUE                     oracle@uhesse (TNS V1-V3).2299_140262306875136
   KEY_NAME                      PQ
   KEY_VALUE                     (0, 1306916528)
   KEY_NAME                      SID
   KEY_VALUE                     36.11
   OWNER_ID                      1
   INCIDENT_FILE                 /u01/app/oracle/diag/rdbms/orcl/orcl/trace/orcl_ora_2299.trc
   OWNER_ID                      1
   INCIDENT_FILE                 /u01/app/oracle/diag/rdbms/orcl/orcl/incident/incdir_6201/orcl_ora_2299_i
1 rows fetched
```

I want to look at the incident tracefile mentioned above:

```
adrci> show trace /u01/app/oracle/diag/rdbms/orcl/orcl/incident/incdir_6201/orcl_ora_2299_i6201.trc
/u01/app/oracle/diag/rdbms/orcl/orcl/incident/incdir_6201/orcl_ora_2299_i6201.trc
 ------------------------------------------------------------
 LEVEL PAYLOAD
 ----- ---------------------------------------------------------------------------------------------------
 Dump file /u01/app/oracle/diag/rdbms/orcl/orcl/incident/incdir_6201/orcl_ora_2299_i6201.trc
 Oracle Database 11g Enterprise Edition Release 11.2.0.2.0 - 64bit Production
 With the Partitioning, OLAP, Data Mining and Real Application Testing options
 ORACLE_HOME = /u01/app/oracle/product/11.2.0/db_1
 System name:      Linux
 Node name:        uhesse
 Release:  2.6.32-100.28.5.el6.x86_64
 Version:  #1 SMP Wed Feb 2 18:40:23 EST 2011
 Machine:  x86_64
 Instance name: orcl
 Redo thread mounted by this instance: 1
 Oracle process number: 25
 Unix process pid: 2299, image: oracle@uhesse (TNS V1-V3)
*** 2011-06-01 10:22:08.929
 *** SESSION ID:(36.11) 2011-06-01 10:22:08.929
 *** CLIENT ID:() 2011-06-01 10:22:08.929
 *** SERVICE NAME:(SYS$USERS) 2011-06-01 10:22:08.929
 *** MODULE NAME:(SQL*Plus) 2011-06-01 10:22:08.929
 *** ACTION NAME:() 2011-06-01 10:22:08.929
Dump continued from file: /u01/app/oracle/diag/rdbms/orcl/orcl/trace/orcl_ora_2299.trc
 1>     ***** Error Stack *****
 ORA-07445: exception encountered: core dump [qcstda()+702] [SIGSEGV] [ADDR:0x0] [PC:0x90D891A] [Address n
 1<     ***** Error Stack *****  1>     ***** Dump for incident 6201 (ORA 7445 [qcstda()+702]) *****
 2>      ***** Beginning of Customized Incident Dump(s) *****
 2>      ***** Beginning of Customized Incident Dump(s) *****
 Exception [type: SIGSEGV, Address not mapped to object] [ADDR:0x0] [PC:0x90D891A, qcstda()+702] [flags: 0
 Registers:
 %rax: 0x0000000000000000 %rbx: 0x00007f915c77f0e0 %rcx: 0x0000000000000007
 %rdx: 0x0000000000000000 %rdi: 0x00007f915c77be98 %rsi: 0x0000000000000000
 %rsp: 0x00007fffc65178e0 %rbp: 0x00007fffc6517960  %r8: 0x0000000000000028
 %r9: 0x0000000000002000 %r10: 0x00000000093849c0 %r11: 0x0000000000000168
 %r12: 0x00007f915c77ade8 %r13: 0x000000008edbb178 %r14: 0x00007f915c777da0
 %r15: 0x00007f915c77ae28 %rip: 0x00000000090d891a %efl: 0x0000000000010246
 qcstda()+686 (0x90d890a) mov -0x40(%rbp),%rdi
 qcstda()+690 (0x90d890e) mov %rdx,0x18(%rbx)
 qcstda()+694 (0x90d8912) mov 0x60(%r15),%rsi
 qcstda()+698 (0x90d8916) mov %ecx,0x8(%r15)
 > qcstda()+702 (0x90d891a) mov %ecx,(%rsi)
 qcstda()+704 (0x90d891c) mov 0x78(%rdi),%rdx
```

```
 qcstda()+708 (0x90d8920) test %rdx,%rdx
 qcstda()+711 (0x90d8923) jnz 0x90d8d03
 qcstda()+717 (0x90d8929) mov -0x70(%rbp),%rdi
*** 2011-06-01 10:22:08.963
 dbkedDefDump(): Starting a non-incident diagnostic dump (flags=0x3, level=3, mask=0x0)
 3>       ***** Current SQL Statement for this session (sql_id=8r222qucmawdt) *****
          select * from t where n=42
 3<       ***** current_sql_statement ***** 3
```

3. Creation of Packages & ZIP files to send to Oracle Support

I may not be able to solve the problem myself. Oracle Support will help me with that one. I gather all the required information with a method called “Incident Packaging Service” (IPS):

```
adrci> ips create package problem 1 correlate all
 Created package 2 based on problem id 1, correlation level all
```

This did not yet create a ZIP file and is therefore referred to as “Logical Package”. The ZIP file is *generated* from the Logical Package that was *created*:

```
adrci> ips generate package 2 in "/home/oracle"
Generated package 2 in file /home/oracle/ORA7445qc_20110601112533_COM_1.zip, mode complete
```

4. Managing, especially purging of tracefiles

Now to the management of tracefiles. You may notice that 11g creates lots of tracefiles that need to be purged from time to time. In fact, this is done automatically, but you may want to change the default purge policy:

```
adrci> show tracefile -rt
 01-JUN-11 10:31:48  diag/rdbms/orcl/orcl/trace/orcl_mmon_2106.trc
 01-JUN-11 09:43:43  diag/rdbms/orcl/orcl/trace/orcl_ckpt_2100.trc
 01-JUN-11 09:22:13  diag/rdbms/orcl/orcl/trace/alert_orcl.log
 01-JUN-11 09:22:11  diag/rdbms/orcl/orcl/trace/orcl_diag_2088.trc
 01-JUN-11 09:22:10  diag/rdbms/orcl/orcl/trace/orcl_ora_2299.trc
 01-JUN-11 09:22:10  diag/rdbms/orcl/orcl/incident/incdir_6201/orcl_ora_2299_i6201.trc
 01-JUN-11 09:18:47  diag/rdbms/orcl/orcl/trace/orcl_ora_2236.trc
 01-JUN-11 09:18:47  diag/rdbms/orcl/orcl/incident/incdir_6153/orcl_ora_2236_i6153.trc
 01-JUN-11 09:17:19  diag/rdbms/orcl/orcl/trace/orcl_dbrm_2090.trc
 01-JUN-11 09:16:44  diag/rdbms/orcl/orcl/trace/orcl_j002_2210.trc
 01-JUN-11 09:16:30  diag/rdbms/orcl/orcl/trace/orcl_ora_2187.trc
 01-JUN-11 09:16:19  diag/rdbms/orcl/orcl/trace/orcl_mman_2094.trc
 01-JUN-11 09:16:16  diag/rdbms/orcl/orcl/trace/orcl_vktm_2082.trc
 01-JUN-11 09:16:14  diag/rdbms/orcl/orcl/trace/orcl_ora_2016.trc
 30-MAY-11 14:07:02  diag/rdbms/orcl/orcl/trace/orcl_mmon_2093.trc
 30-MAY-11 11:15:30  diag/rdbms/orcl/orcl/trace/orcl_ora_3414.trc
 30-MAY-11 11:00:01  diag/rdbms/orcl/orcl/trace/orcl_j000_2245.trc
 30-MAY-11 10:56:58  diag/rdbms/orcl/orcl/trace/orcl_dbrm_2077.trc
 30-MAY-11 10:56:20  diag/rdbms/orcl/orcl/trace/orcl_j002_2201.trc
 30-MAY-11 10:56:06  diag/rdbms/orcl/orcl/trace/orcl_ora_2178.trc
 30-MAY-11 10:55:58  diag/rdbms/orcl/orcl/trace/orcl_mman_2081.trc
 30-MAY-11 10:55:55  diag/rdbms/orcl/orcl/trace/orcl_vktm_2069.trc
 30-MAY-11 10:55:53  diag/rdbms/orcl/orcl/trace/orcl_ora_2006.trc
 27-MAY-11 10:53:25  diag/rdbms/orcl/orcl/trace/orcl_mmon_8589.trc
 27-MAY-11 10:17:05  diag/rdbms/orcl/orcl/trace/orcl_ora_11390.trc
 27-MAY-11 09:26:41  diag/rdbms/orcl/orcl/trace/orcl_ora_10739.trc
 27-MAY-11 09:23:53  diag/rdbms/orcl/orcl/trace/orcl_dbrm_8573.trc
 27-MAY-11 09:22:58  diag/rdbms/orcl/orcl/trace/orcl_ora_8687.trc
 27-MAY-11 09:22:54  diag/rdbms/orcl/orcl/trace/orcl_mman_8577.trc
 27-MAY-11 09:22:50  diag/rdbms/orcl/orcl/trace/orcl_vktm_8565.trc
 27-MAY-11 09:22:48  diag/rdbms/orcl/orcl/trace/orcl_ora_8516.trc
 27-MAY-11 09:22:44  diag/rdbms/orcl/orcl/trace/orcl_ora_8515.trc
 27-MAY-11 09:22:44  diag/rdbms/orcl/orcl/trace/orcl_vktm_8347.trc
```

```
27-MAY-11 09:21:24  diag/rdbms/orcl/orcl/trace/orcl_dbrm_8355.trc
27-MAY-11 09:20:29  diag/rdbms/orcl/orcl/trace/orcl_ora_8470.trc
27-MAY-11 09:20:28  diag/rdbms/orcl/orcl/trace/orcl_mmon_8371.trc
27-MAY-11 09:20:28  diag/rdbms/orcl/orcl/trace/orcl_ora_8381.trc
27-MAY-11 09:20:26  diag/rdbms/orcl/orcl/trace/orcl_mman_8359.trc
27-MAY-11 09:20:20  diag/rdbms/orcl/orcl/trace/orcl_ora_8299.trc
27-MAY-11 09:20:15  diag/rdbms/orcl/orcl/trace/orcl_ora_8297.trc
27-MAY-11 09:20:15  diag/rdbms/orcl/orcl/trace/orcl_vktm_8096.trc
27-MAY-11 09:20:07  diag/rdbms/orcl/orcl/trace/orcl_ora_8296.trc
27-MAY-11 09:19:42  diag/rdbms/orcl/orcl/trace/orcl_ora_8285.trc
27-MAY-11 09:19:33  diag/rdbms/orcl/orcl/trace/orcl_dm00_8271.trc
27-MAY-11 09:19:33  diag/rdbms/orcl/orcl/trace/orcl_dw00_8273.trc
27-MAY-11 09:19:11  diag/rdbms/orcl/orcl/trace/orcl_dbrm_8104.trc
27-MAY-11 09:18:53  diag/rdbms/orcl/orcl/trace/orcl_ora_8267.trc
27-MAY-11 09:18:33  diag/rdbms/orcl/orcl/trace/orcl_j001_8237.trc
27-MAY-11 09:18:26  diag/rdbms/orcl/orcl/trace/orcl_mmon_8219.trc
27-MAY-11 09:18:23  diag/rdbms/orcl/orcl/trace/orcl_ora_8231.trc
27-MAY-11 09:18:22  diag/rdbms/orcl/orcl/trace/orcl_cjq0_8229.trc
27-MAY-11 09:18:16  diag/rdbms/orcl/orcl/trace/orcl_ora_8131.trc
27-MAY-11 09:18:14  diag/rdbms/orcl/orcl/trace/orcl_m000_8223.trc
27-MAY-11 09:18:13  diag/rdbms/orcl/orcl/trace/orcl_mman_8108.trc
27-MAY-11 09:18:05  diag/rdbms/orcl/orcl/trace/orcl_ora_8048.trc
27-MAY-11 09:17:59  diag/rdbms/orcl/orcl/trace/orcl_vktm_7920.trc
27-MAY-11 09:17:59  diag/rdbms/orcl/orcl/trace/orcl_ora_8046.trc
27-MAY-11 09:17:00  diag/rdbms/orcl/orcl/trace/orcl_mman_7932.trc
27-MAY-11 09:16:56  diag/rdbms/orcl/orcl/trace/orcl_ora_7954.trc
27-MAY-11 09:16:51  diag/rdbms/orcl/orcl/trace/orcl_ora_7871.trc
```

I have already got some tracefiles. How long are they going to stay?

```
adrci> show control

ADR Home = /u01/app/oracle/diag/rdbms/orcl/orcl:
*************************************************************************
ADRID                 SHORTP_POLICY        LONGP_POLICY         LAST_MOD_TIME                              LA
--------------------- -------------------- -------------------- ------------------------------------------ --
1335663986            720                  8760                 2011-05-27 10:16:46.997118 +02:00
1 rows fetched
```

The ordinary tracefiles will stay for 30 days (720 hours), while files like incident files stay one year (8760 hours) by default. We can change that policy with for example:

```
adrci> set control (SHORTP_POLICY = 360)

adrci> set control (LONGP_POLICY = 2190)

adrci> show control
ADR Home = /u01/app/oracle/diag/rdbms/orcl/orcl:
*************************************************************************
ADRID                 SHORTP_POLICY        LONGP_POLICY         LAST_MOD_TIME                              LA
--------------------- -------------------- -------------------- ------------------------------------------ --
1335663986            360                  2190                 2011-06-01 11:42:17.208064 +02:00
1 rows fetched
```

Also, we may want to purge tracefiles manually. Following command will manually purge all tracefiles older than 2 days (2880 minutes):

```
adrci> purge -age 2880 -type trace
adrci> show tracefile -rt
   01-JUN-11 10:46:54  diag/rdbms/orcl/orcl/trace/orcl_mmon_2106.trc
   01-JUN-11 09:43:43  diag/rdbms/orcl/orcl/trace/orcl_ckpt_2100.trc
   01-JUN-11 09:22:13  diag/rdbms/orcl/orcl/trace/alert_orcl.log
   01-JUN-11 09:22:11  diag/rdbms/orcl/orcl/trace/orcl_diag_2088.trc
   01-JUN-11 09:22:10  diag/rdbms/orcl/orcl/incident/incdir_6201/orcl_ora_2299_i6201.trc
   01-JUN-11 09:22:10  diag/rdbms/orcl/orcl/trace/orcl_ora_2299.trc
```

```
01-JUN-11 09:18:47  diag/rdbms/orcl/orcl/incident/incdir_6153/orcl_ora_2236_i6153.trc
01-JUN-11 09:18:47  diag/rdbms/orcl/orcl/trace/orcl_ora_2236.trc
01-JUN-11 09:17:19  diag/rdbms/orcl/orcl/trace/orcl_dbrm_2090.trc
01-JUN-11 09:16:44  diag/rdbms/orcl/orcl/trace/orcl_j002_2210.trc
01-JUN-11 09:16:30  diag/rdbms/orcl/orcl/trace/orcl_ora_2187.trc
01-JUN-11 09:16:19  diag/rdbms/orcl/orcl/trace/orcl_mman_2094.trc
01-JUN-11 09:16:16  diag/rdbms/orcl/orcl/trace/orcl_vktm_2082.trc
01-JUN-11 09:16:14  diag/rdbms/orcl/orcl/trace/orcl_ora_2016.trc
30-MAY-11 14:07:02  diag/rdbms/orcl/orcl/trace/orcl_mmon_2093.trc
30-MAY-11 11:15:30  diag/rdbms/orcl/orcl/trace/orcl_ora_3414.trc
30-MAY-11 11:00:01  diag/rdbms/orcl/orcl/trace/orcl_j000_2245.trc
30-MAY-11 10:56:58  diag/rdbms/orcl/orcl/trace/orcl_dbrm_2077.trc
30-MAY-11 10:56:20  diag/rdbms/orcl/orcl/trace/orcl_j002_2201.trc
30-MAY-11 10:56:06  diag/rdbms/orcl/orcl/trace/orcl_ora_2178.trc
30-MAY-11 10:55:58  diag/rdbms/orcl/orcl/trace/orcl_mman_2081.trc
30-MAY-11 10:55:55  diag/rdbms/orcl/orcl/trace/orcl_vktm_2069.trc
30-MAY-11 10:55:53  diag/rdbms/orcl/orcl/trace/orcl_ora_2006.trc
```

Conclusion: With adrci, we have a new and efficient utility to deal with Oracle Errors – especially for collecting information to send them to Oracle Support. This functionality is called Incident Packaging Service. 11g is generating lots of tracefiles. We can control the purging policy of them with adrci. Finally, we can now tail -f our alert.log from any OS.

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