CollectDeadlockTraces.sh

Norman Dunbar

Version v1.0, March 6 2019

What is it?

CollectDeadlockTraces.sh is a script to run under a bash shell to:

What does it do?

- Locate the alert.log for the current Oracle database environment;

- Scan it for deadlocks - ORA-00060 - and obtain the created trace file's name;

- List any trace files which are not found in the diagnostics area;

- Extract a list of deadlock trace files which still exist;

- Tar them all together;

- Compress the resulting tar file with gzip.

How do I run it?

Just execute it. You might need to allow execution by:

```
chmod ug+x collectDeadlockTraces.sh
```

Now you can execute it!

Give me an example

A test run looks remarkably like the following, for a system that suffered badly from deadlocks caused by using bitmap indexes on an OLTP system, Sigh!

```
$ ./collectDeadlockTraces.sh

DIAG currently set to /u01/app/oracle/diag/rdbms/xxxxxxxx/xxxxxxxx

Checking alert log...
MISSING: /u01/app/oracle/diag/rdbms/xxxxxxxx/xxxxxxxx/trace/xxxxxxxx_ora_10158780.trc
...
...
MISSING: /u01/app/oracle/diag/rdbms/xxxxxxxx/xxxxxxxx/trace/xxxxxxxx_ora_9175774.trc

Collecting ...
-rw-r-----    1 oracle   asmadmin    1694112 Mar  2 06:05
/u01/app/oracle/diag/rdbms/xxxxxxxx/xxxxxxxx/trace/xxxxxxxx_ora_14025328.trc
-rw-r-----    1 oracle   asmadmin    1515803 Mar  2 06:05
/u01/app/oracle/diag/rdbms/xxxxxxxx/xxxxxxxx/trace/xxxxxxxx_ora_15860432.trc
...
...
-rw-r-----    1 oracle   asmadmin    1897975 Feb 11 10:55
/u01/app/oracle/diag/rdbms/xxxxxxxx/xxxxxxxx/trace/xxxxxxxx_ora_7602800.trc
-rw-r-----    1 oracle   asmadmin    1147204 Feb 27 09:34
/u01/app/oracle/diag/rdbms/xxxxxxxx/xxxxxxxx/trace/xxxxxxxx_ora_9437892.trc

Tarring (and feathering) the files...

Zipping xxxxxxxx_deadlocks.tar ...

Finished: 'xxxxxxxx_deadlocks.tar.gz' is ready for collection.
```

OK, now what?

- Download the generated `xxxxxxxx_deadlocks.tar.gz` file;

- Gunzip it (On Windows, `7zip` is useful for this);

- Untar it (`7zip` again);

- Run `DeadlockAnalysis` against the resulting pile of trace files;

- Open the generated HTML files in your favourite browser, or use Internet Explorer, and examine why the deadlocks occurred.

What are all those Xs about?

They replace the `instance name` and `Oracle_SID` for the database I was testing this code on. It's a small way to protect the innocent and/or guilty and to avoid database names escaping into the wilds where miscreants *might* wish to attack them.

Enjoy.