2025/12/23 18:50

While working through EIWDEV database log files looking for issues I came across numerous instances of the following error:

```
2019-11-07T03:57:00.623733+02:00
Errors in file
/u01/app/oracle/admin/diag/rdbms/eiwdev/eiwdev1/trace/eiwdev1_ora_8142.trc
(incident=1313939):
ORA-00603: ORACLE server session terminated by fatal error
ORA-27515: inadequate memlock limit or driver settings
Incident details in:
/u01/app/oracle/admin/diag/rdbms/eiwdev/eiwdev1/incident/incdir_1313939/eiwdev1_ora_8142_i1313939.trc
```

This seems to indicate some sort of memory limit (memlock limit) is being reached by a process in the database. Following the Exacheck recommendation the grid user memlock value was already set to unlimited, and oracle user memlock to 237GB (90% of physical memory). It seemed unlikely this memory lock limit was being reached, but the source of the error was unclear.

This was identified as the guery for the failing session from the trc log:

```
----- Current SQL Statement for this session (sql_id=gngtvs38t0060) -----

SELECT /*+ CONNECT_BY_FILTERING */ s.privilege# FROM sys.sysauth$ s

CONNECT BY s.grantee# = PRIOR s.privilege#

AND (s.privilege# > 0 OR s.privilege# = -352)

START WITH (s.p

rivilege# > 0 OR s.privilege# = -352) AND s.grantee# IN (SELECT c1.privilege# FROM sys.codeauth$ c1 WHERE c1.obj# = :1)

UNION

SELECT c2.privilege# FROM sys.

codeauth$ c2 WHERE c2.obj# = :2

ORDER BY 1 ASC
```

And the process resource limits show a 64K memlock limit, which makes no sense as it is the Oracle user.

```
----- Process Resource Limits -----
******* Dumping Resource Limits(s/h) ***********
core file size
                                       0 KB/UNLIMITED
data seg size
                                  UNLIMITED/UNLIMITED
scheduling priority
                                       0 KB/0 KB
file size
                                  UNLIMITED/UNLIMITED
pending signals
                                    1005 KB/1005 KB
max locked memory
                                      64 KB/64 KB
max memory size
                                  UNLIMITED/UNLIMITED
open files
                                       4 KB/4 KB
POSIX message queues
                                     800 KB/800 KB
real-time priority
                                       0 KB/0 KB
stack size
                                      32 MB/UNLIMITED
                                  UNLIMITED/UNLIMITED
cpu time
max user processes
                                    1005 KB/1005 KB
virtual memory
                                  UNLIMITED/UNLIMITED
file locks
                                  UNLIMITED/UNLIMITED
```

```
******** End of Resource Limits Dump ********

Process Group: DEFAULT, pseudo proc: 0x4c0aa17f8

O/S info: user: oracle, term: UNKNOWN, ospid: 8142
```

Working back through the Exawatcher Ps archives, I was able to track pid 8142 to its parent process:

```
0 R oracle
              8142
                     8141 17 21
                                  9 10
                                            - 394308 4972401 -
              00:00:03 oracleeiwdev1
03:56 ?
(DESCRIPTION=(LOCAL=YES)(ADDRESS=(PROTOCOL=beq)))
0 S oracle
              8141
                    8140 0 10 9 10
                                           - 20888 28639 pipe wait
03:56 ?
              00:00:00
/u01/app/oracle/product/12.2.0.1/dbhome 1/bin/sqlplus -S -L
4 S oracle
              8140 90932 0 26
                                   9 10
                                            - 2488 26587 do wait
03:56 ?
              00:00:00 /bin/sh /var/tmp/mgsscript1567727100
4 D root
             90932 90927 8
                              8
                                   9
                                     10
                                            - 40120 38740 lock page killabl
03:13 ?
              00:04:40 /opt/managesoft/libexec/ndtrack -o
InventoryType=Machine -o UserInteractionLevel=Ouiet
0 S root
             90927 33457 1 7 19
                                       0
                                            - 6172 29375 hrtimer nanosleep
03:13 ?
              00:00:00 /opt/managesoft/libexec/ndschedag -o
ScheduleType=Machine -r {de9cddcd-53ac-4796-b02c-f00764f00a1f}
                           0 22 19
                                            - 4096 4546 poll schedule tim
1 S root
             33457
                        1
                                       0
Nov06 ?
              00:00:00 /opt/managesoft/libexec/ndtask
```

I then looked at the process limits for the ndtask process:

<pre>[root@heiwdb01 Ps.ExaWatcher]# cat /proc/33457/limits</pre>			
Limit	Soft Limit	Hard Limit	Units
Max cpu time	unlimited	unlimited	seconds
Max file size	unlimited	unlimited	bytes
Max data size	unlimited	unlimited	bytes
Max stack size	8388608	unlimited	bytes
Max core file size	0	unlimited	bytes
Max resident set	unlimited	unlimited	bytes
Max processes	1029339	1029339	
processes			
Max open files	1024	4096	files
Max locked memory	65536	65536	bytes

At the same time, checking on My Oracle Support I was able to find the exact same issue being experienced and logged as a bug.

https://support.oracle.com/epmos/faces/DocumentDisplay?id=2605233.1&displayIndex=1#CAUSE

With a Solution of: 3rd party softwares connect to database with a hard code memlock setting should have the sufficient value.

In other words, flexera has a hardcoded memlock-related bug that causes the process to crash every few hours and dump trace logs, which is a problem to maintain.

I therefore have disabled Flexera on all Warehouse database servers.

https://wiki.dewberry.co.za/ Printed on 2025/12/23 18:50

2025/12/23 18:50 3/3

From:

https://wiki.dewberry.co.za/ - Shaun's Wiki

Permanent link:

https://wiki.dewberry.co.za/doku.php?id=flexera&rev=1573469426

Last update: 2019/11/11 10:50

