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## Oracle crash; "Instance terminated by PMON"

- **Article Type:** General
  - **Product:** Aleph
  - **Product Version:** 20
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### Problem Symptoms:

Oracle crashes. The Oracle alert.log shows:

1. "DBWR process terminated with error"
2. "Instance terminated by PMON"

### Cause:

1. swap does not address Oracle requirements - it should be equal to the size of the RAM (in case RAM is between 2 and 16 GB).
2. kernel.shmmax is set to 2147483648 which is too small. Oracle requirements say:

Minimum of the following values:

- Half the size of the physical memory
- 4GB - 1 byte

### Resolution:

Have Oracle DBA set kernel.shmmax to 4G

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## Additional Information

Excerpt from Oracle alert log showing specific instance of crash:

Tue Jun 04 19:33:03 2013

Errors in file /exlibris/app/oracle/diag/rdbms/aleph20/aleph20/trace/aleph20\_pmon\_8120.trc:

ORA-00471: DBWR process terminated with error

Tue Jun 04 19:33:04 2013

Errors in file /exlibris/app/oracle/diag/rdbms/aleph20/aleph20/trace/aleph20\_q001\_20573.trc:

ORA-00471: DBWR process terminated with error

Tue Jun 04 19:33:06 2013

Errors in file /exlibris/app/oracle/diag/rdbms/aleph20/aleph20/trace/aleph20\_j001\_655.trc:

ORA-00471: DBWR process terminated with error

PMON (ospid: 8120): terminating the instance due to error 471

Instance terminated by PMON, pid = 8120 <-----

Tue Jun 04 19:33:11 2013

ORA-1092 : opitsk aborting process

Tue Jun 04 19:41:56 2013

Starting ORACLE instance (normal)

**Category:** System Management (500)

**Subject:** Oracle (500)

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