High Load On Server from Process Ora_onnn (Doc ID 1556564.1)

In this Document

APPLIES TO:

Oracle Database - Enterprise Edition - Version 11.2.0.2 and later
Oracle Database Cloud Schema Service - Version N/A and later
Gen 1 Exadata Cloud at Customer (Oracle Exadata Database Cloud Machine) - Version N/A and later
Oracle Cloud Infrastructure - Database Service - Version N/A and later
Oracle Database Exadata Express Cloud Service - Version N/A and later
Information in this document applies to any platform.

GOAL

You may observe that the process ora_o000 (ora_onnn) may generate high load of CPU

The output from "top" command may show:

```
$ top
top - 08:17:38 up 369 days, 20:59, 5 users, load average: 4.82, 5.40, 5.20
Tasks: 1036 total, 6 running, 868 sleeping, 0 stopped, 162 zombie
Cpu(s): 51.8%us, 0.5%sy, 0.0%ni, 47.3%id, 0.4%wa, 0.0%hi, 0.0%si, 0.0%st
Mem: 32959900k total, 20735032k used, 12224868k free, 919064k buffers
Swap: 102399992k total, 1372352k used, 101027640k free, 9209360k cached

 PID USER PR NI VIRT RES SHR S %CPU %MEM TIME+ COMMAND
26261 oracle 20 0 1227m 15m 15m R 99.8 0.0 5124624h oracle
14228 oracle 20 0 1233m 787m 779m S 8.2 2.4 328:32.26 oracle
..
```

Checking the process taking highest CPU shows:

```
$ ps -efx |grep 26261
26261 ? Rs 21146332:36 ora_o000_jfim HOSTNAME=tryton SHELL=/bin/bash TERM=xterm HISTSIZE=1000
```

What is the process: ora_o000_jfim ?
What could be the reason of high load of this process, and how to fix it ?

SOLUTION

The process: Onnn (ASM Connection Pool Process) : Maintains a connection to the ASM instance for metadata operations. Onnn processes are spawned on demand. These processes communicate with the ASM instance.

since "o000" is an optional background process to connect to the ASM instance for metadata operations(it is spawned and terminated automatically)

Generally, if its not too high and continuously reported, its harmless.

If you think its too high and impacting Performance, then you may kill this process during the off peak hours and let it re-spawn.

Killing this process will not affect the database operations.

REFERENCES

[BUG:14044697](#) - O00X PROCESS CONSUMES HIGH CPU
[BUG:13767869](#) - HIGH CPU CONSUMPTION BY ONNN PROCESS

Didn't find what you are looking for?