
Subject: ***SOLVED*** OpenVZ kernel showing less memory than is installed

Posted by [sgwestrip](#) on Tue, 20 Mar 2007 11:18:17 GMT

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Hi,

Our Dell server has 4Gb RAM installed and when it is booted using the Centos kernel (2.6.9-42.0.10.ELsmp) it displays this from /proc/meminfo:

```
MemTotal:    4147184 kB
MemFree:     4066004 kB
Buffers:     8888 kB
Cached:      28812 kB
SwapCached:    0 kB
Active:      29872 kB
Inactive:    19100 kB
HighTotal:   3276544 kB
HighFree:   3228544 kB
LowTotal:    870640 kB
LowFree:    837460 kB
SwapTotal:   8385920 kB
SwapFree:   8385920 kB
Dirty:       196 kB
Writeback:    0 kB
Mapped:      16412 kB
Slab:        12604 kB
CommitLimit: 10459512 kB
Committed_AS: 49628 kB
PageTables:   968 kB
VmallocTotal: 106488 kB
VmallocUsed:  6252 kB
VmallocChunk: 99880 kB
HugePages_Total: 0
HugePages_Free: 0
Hugepagesize: 2048 kB
```

When the server is booted using the OpenVZ kernel (2.6.9-023stab040.1-smp) it seems to only use ~3Gb RAM.

```
MemTotal:    3100996 kB
MemFree:     3019544 kB
Buffers:     8384 kB
Cached:      28744 kB
SwapCached:    0 kB
Active:      24008 kB
Inactive:    19068 kB
HighTotal:   2227968 kB
HighFree:   2175488 kB
```

LowTotal: 873028 kB
LowFree: 844056 kB
SwapTotal: 8385920 kB
SwapFree: 8385920 kB
Dirty: 264 kB
Writeback: 0 kB
Mapped: 10880 kB
Slab: 14004 kB
CommitLimit: 9936416 kB
Committed_AS: 43704 kB
PageTables: 748 kB
VmallocTotal: 106488 kB
VmallocUsed: 16228 kB
VmallocChunk: 89980 kB

Is this what is expected or do I need to configure something differently?

Many thanks,
Steve

Subject: Re: OpenVZ kernel showing less memory than is installed
Posted by [Vasily Tarasov](#) on Tue, 20 Mar 2007 11:33:35 GMT
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Hello,

Use etnosplit kernel instead smp.

Vasily.

Subject: [SOLVED] OpenVZ kernel showing less memory than is installed
Posted by [sgwestrip](#) on Tue, 20 Mar 2007 13:27:16 GMT
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Thank you very much for the speedy response.

Using that kernel has solved the problem.

Thanks,
Steve
