Posted by msolovyev on Wed, 14 Nov 2007 13:49:38 GMT
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/var/log/messages:
Nov 14 16:46:25 xxxxxx kernel: allocation failed: out of vmalloc space - use vmalloc=<size> to increase size.
Nov 14 16:46:25 xxxxxx kernel: VE: 103: stopped
Nov 14 16:46:25 xxxxxx kernel: VE: 103: failed to start with err=-12

2.6.18-8.1.8.el5.028stab039.1
CentOS-4.5

VPS
Posted by vaverin on Wed, 14 Nov 2007 14:14:10 GMT
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VPS
Posted by msolovyev on Wed, 14 Nov 2007 14:30:49 GMT
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VPS
Posted by msolovyev on Wed, 14 Nov 2007 14:40:25 GMT
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```
[root@xxxxxxxx ~]# cat /proc/meminfo
MemTotal:      1032136 kB
MemFree:         31060 kB
Buffers:         42404 kB
Cached:         640392 kB
SwapCached:          0 kB
Active:         498268 kB
Inactive:       439648 kB
HighTotal:      128896 kB
HighFree:          252 kB
LowTotal:       903240 kB
LowFree:         30808 kB
SwapTotal:     2008116 kB
SwapFree:      2008116 kB
Dirty:             444 kB
Writeback:           0 kB
AnonPages:      255132 kB
Mapped:          53252 kB
Slab:            46048 kB
PageTables:       3116 kB
NFS_Unstable:        0 kB
Bounce:              0 kB
CommitLimit:   2524184 kB
Committed_AS:   806292 kB
VmallocTotal:   110584 kB  <=====
VmallocUsed:    110444 kB  <=====
VmallocChunk:       72 kB
HugePages_Total:     0
HugePages_Free:      0
HugePages_Rsvd:      0
Hugepagesize:     4096 kB
```

```
[root@xxxxxxxx ~]# free
             total       used       free     shared    buffers     cached
Mem:       1032136    1001224      30912          0      42636     640436
-/+ buffers/cache:     318152     713984
Swap:      2008116          0    2008116
```

VPS
Posted by khorenko on Wed, 14 Nov 2007 14:58:23 GMT
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Documentation/kernel-parameters.txt:
...
vmalloc=nn[KMG] [KNL,BOOT] Forces the vmalloc area to have an exact
size of <nn>. This can be used to increase the
minimum size (128MB on x86). It can also be used to
decrease the size and leave more room for directly
mapped kernel RAM.
...

VPS
Posted by msolovyev on Wed, 14 Nov 2007 15:29:21 GMT
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1) 2.6.18-8.1.8.el5.028stab039.1, 4GB RAM
VmallocTotal: 110584 kB
VmallocUsed: 9068 kB
VmallocChunk: 101460 kB

2) 2.6.18-8.1.8.el5.028stab039.1, 2GB RAM
VmallocTotal: 110584 kB
VmallocUsed: 6860 kB
VmallocChunk: 103652 kB

3) linux-image-2.6.18-028stab035.1-ovz-smp, 4GB RAM
VmallocTotal: 34359738364 kB
VmallocUsed: 273628 kB
VmallocChunk: 34359464696 kB

4) 2.6.18-openvz-13-1etch4-686, 512MB RAM
VmallocTotal: 540664 kB
VmallocUsed: 5788 kB
VmallocChunk: 534548 kB

2.6.18-8.1.8.el5.028stab039.1, 1GB RAM
VmallocTotal: 110584 kB
VmallocUsed: 110444 kB
VmallocChunk: 72 kB

VPS
Posted by vaverin on Thu, 15 Nov 2007 05:56:29 GMT
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msolovyev wrote on Wed, 14 November 2007 18:291) 2.6.18-8.1.8.el5.028stab039.1, 4GB RAM
VmallocTotal: 110584 kB
VmallocUsed: 9068 kB
VmallocChunk: 101460 kB

2) 2.6.18-8.1.8.el5.028stab039.1, 2GB RAM
VmallocTotal: 110584 kB
VmallocUsed: 6860 kB
VmallocChunk: 103652 kB

msolovyev wrote on Wed, 14 November 2007 18:293) linux-image-2.6.18-028stab035.1-ovz-smp, 4GB RAM
VmallocTotal: 34359738364 kB
VmallocUsed: 273628 kB
VmallocChunk: 34359464696 kB

msolovyev wrote on Wed, 14 November 2007 18:294) 2.6.18-openvz-13-1etch4-686, 512MB RAM
VmallocTotal: 540664 kB

VmallocUsed: 5788 kB
VmallocChunk: 534548 kB

2.6.18-8.1.8.el5.028stab039.1, 1GB RAM
VmallocTotal: 110584 kB
VmallocUsed: 110444 kB
VmallocChunk: 72 kB

VE

VPS
Posted by msolovyev on Thu, 15 Nov 2007 06:10:48 GMT

VmallocTotal: 110584 kB
VmallocUsed: 109240 kB
VmallocChunk: 868 kB

VmallocTotal: 106488 kB
VmallocUsed: 3696 kB
VmallocChunk: 102456 kB

VPS
Posted by vaverin on Thu, 15 Nov 2007 06:30:55 GMT
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VPS
Posted by vaverin on Thu, 15 Nov 2007 06:33:26 GMT
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VPS
Posted by msolovyev on Thu, 15 Nov 2007 14:56:49 GMT
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```
[root@xxxxxxxx ~]# cat /proc/meminfo | grep Vmalloc
VmallocTotal:   106488 kB
VmallocUsed:      5664 kB
VmallocChunk:   100760 kB
```