
Subject: Kernal Problem !

Posted by [Java](#) on Sat, 20 Sep 2008 11:04:33 GMT

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Hi palls,

I've a problem with kernel
after updating kernel , Server memory has become much less
and after 12 Gb the server memory become only 3 Gb

now it's

free -m

	total	used	free	shared	buffers	cached
Mem:	3286	3107	178	0	194	1752
-/+ buffers/cache:		1161	2124			
Swap:	12291	5	12286			

and i need you to help me to solve that problem fast because some vpss are down now because of memory .

Subject: Re: Kernal Problem !

Posted by [piavlo](#) on Sat, 20 Sep 2008 18:51:17 GMT

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Which system do you have 32 or 64 bit?

I looks like you compiled a 32 bit kernel to support up to 4G of virtual memory. Where 1G is used for kernel space and 3G for user space. You need to set CONFIG_HIGHMEM64G

Subject: Re: Kernal Problem !

Posted by [Java](#) on Sat, 20 Sep 2008 21:40:32 GMT

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OS : Centos 4 32 bit

```
[root@host01 ~]# uname -a
```

```
Linux host01.sitename.com 2.6.18-92.1.1.el5.028stab057.2 #1 SMP Mon Jul 21 20:55:45 MSD 2008 i686 i686 i386 GNU/Linux
```

Subject: Re: Kernal Problem !
Posted by [LinuxGeek](#) on Sat, 20 Sep 2008 21:51:49 GMT
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Hello,
recompile your kernel with with PAE check this link
[http://wiki.openvz.org/Different_kernel_flavors_\(UP%2C_SMP%2C_ENTERPRISE%2C_ENTNOS_PLIT\)](http://wiki.openvz.org/Different_kernel_flavors_(UP%2C_SMP%2C_ENTERPRISE%2C_ENTNOS_PLIT))

if you want do it from rpm's
rpm -ihv
<http://download.openvz.org/kernel/branches/rhel5-2.6.18/028stab057.2/ovzkernel-PAE-2.6.18-92.1.1.el5.028stab057.2.i686.rpm>

rpm -ihv
<http://download.openvz.org/kernel/branches/rhel5-2.6.18/028stab057.2/ovzkernel-PAE-devel-2.6.18-92.1.1.el5.028stab057.2.i686.rpm>

and configure your grub
vi /boot/grub/grub.conf
default=0

Alaa Eldin

Subject: Re: Kernal Problem !
Posted by [Java](#) on Sun, 21 Sep 2008 00:15:17 GMT
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```
rpm -ihv http://download.openvz.org/kernel/branches/rhel5-2.6.18/028s
tab057.2/ovzkernel-PAE-2.6.18-92.1.1.el5.028stab057.2.i686.r pm
Retrieving http://download.openvz.org/kernel/branches/rhel5-2.6.18/028s
tab057.2/ovzkernel-PAE-2.6.18-92.1.1.el5.028stab057.2.i686.r pm
Preparing... ##### [100%]
package ovzkernel-PAE-2.6.18-92.1.1.el5.028stab057.2 is already installed
[root@host01 ~]# rpm -ihv http://download.openvz.org/kernel/branches/rhel5-2.6.18/028s
tab057.2/ovzkernel-PAE-devel-2.6.18-92.1.1.el5.028stab057.2. i686.rpm
Retrieving http://download.openvz.org/kernel/branches/rhel5-2.6.18/028s
tab057.2/ovzkernel-PAE-devel-2.6.18-92.1.1.el5.028stab057.2. i686.rpm
Preparing... ##### [100%]
package ovzkernel-PAE-devel-2.6.18-92.1.1.el5.028stab057.2 is already installed
```

=====
the grub.conf

```
grub.conf generated by anaconda
#
# Note that you do not have to rerun grub after making changes to this file
# NOTICE: You have a /boot partition. This means that
```

```

#    all kernel and initrd paths are relative to /boot/, eg.
#    root (hd0,0)
#    kernel /vmlinuz-version ro root=/dev/sda3
#    initrd /initrd-version.img
#boot=/dev/sda
default=2
timeout=5
#splashimage=(hd0,0)/grub/splash.xpm.gz
hiddenmenu
title CentOS (2.6.18-92.1.1.el5.028stab057.2ent)
    root (hd0,0)
    kernel /vmlinuz-2.6.18-92.1.1.el5.028stab057.2ent ro root=LABEL=/ console=tty0
console=ttyS1,19200n8
    initrd /initrd-2.6.18-92.1.1.el5.028stab057.2ent.img
title CentOS (2.6.18-92.1.1.el5.028stab057.2PAE)
    root (hd0,0)
    kernel /vmlinuz-2.6.18-92.1.1.el5.028stab057.2PAE ro root=LABEL=/ console=tty0
console=ttyS1,19200n8
    initrd /initrd-2.6.18-92.1.1.el5.028stab057.2PAE.img
title CentOS (2.6.18-92.1.1.el5.028stab057.2)
    root (hd0,0)
    kernel /vmlinuz-2.6.18-92.1.1.el5.028stab057.2 ro root=LABEL=/ console=tty0
console=ttyS1,19200n8
    initrd /initrd-2.6.18-92.1.1.el5.028stab057.2.img
title CentOS (2.6.18-53.1.19.el5.028stab053.14ent)
    root (hd0,0)
    kernel /vmlinuz-2.6.18-53.1.19.el5.028stab053.14ent ro root=LABEL=/ console=tty0
console=ttyS1,19200n8
    initrd /initrd-2.6.18-53.1.19.el5.028stab053.14ent.img
title CentOS (2.6.18-53.1.19.el5.028stab053.14PAE)
    root (hd0,0)
    kernel /vmlinuz-2.6.18-53.1.19.el5.028stab053.14PAE ro root=LABEL=/ console=tty0
console=ttyS1,19200n8
    initrd /initrd-2.6.18-53.1.19.el5.028stab053.14PAE.img
title CentOS (2.6.18-53.1.19.el5.028stab053.14)
    root (hd0,0)
    kernel /vmlinuz-2.6.18-53.1.19.el5.028stab053.14 ro root=LABEL=/ console=tty0
console=ttyS1,19200n8
    initrd /initrd-2.6.18-53.1.19.el5.028stab053.14.img
title CentOS (2.6.9-67.0.15.ELsmp)
    root (hd0,0)
    kernel /vmlinuz-2.6.9-67.0.15.ELsmp ro root=LABEL=/ console=tty0 console=ttyS1,19200n8
    initrd /initrd-2.6.9-67.0.15.ELsmp.img
title CentOS (2.6.9-67.0.15.ELhugemem)
    root (hd0,0)
    kernel /vmlinuz-2.6.9-67.0.15.ELhugemem ro root=LABEL=/ console=tty0
console=ttyS1,19200n8
    initrd /initrd-2.6.9-67.0.15.ELhugemem.img

```

```
title CentOS (2.6.9-67.0.15.EL)
  root (hd0,0)
  kernel /vmlinuz-2.6.9-67.0.15.EL ro root=LABEL=/ console=tty0 console=ttyS1,19200n8
  initrd /initrd-2.6.9-67.0.15.EL.img
title CentOS-4 i386 (2.6.9-67.ELsmp)
  root (hd0,0)
  kernel /vmlinuz-2.6.9-67.ELsmp ro root=LABEL=/ console=tty0 console=ttyS1,19200n8
  initrd /initrd-2.6.9-67.ELsmp.img
title CentOS-4 i386-up (2.6.9-67.EL)
  root (hd0,0)
  kernel /vmlinuz-2.6.9-67.EL ro root=LABEL=/ console=tty0 console=ttyS1,19200n8
  initrd /initrd-2.6.9-67.EL.img
```

Thanks for your response

Subject: Re: Kernal Problem !
Posted by [Java](#) on Sun, 21 Sep 2008 02:17:14 GMT
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piavlo wrote on Sat, 20 September 2008 14:51 Which system do you have 32 or 64 bit?
I looks like you compiled a 32 bit kernel to support up to 4G of virtual memory. Where 1G is used for kernel space and 3G for user space. You need to set CONFIG_HIGHMEM64G

how can I set CONFIG_HIGHMEM64G

Subject: Re: Kernal Problem !
Posted by [piavlo](#) on Sun, 21 Sep 2008 05:22:32 GMT
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In the kernel config

Subject: Re: Kernal Problem !
Posted by [Java](#) on Sun, 21 Sep 2008 10:49:56 GMT
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```
CONFIG_HIGHMEM64G=y
CONFIG_HIGHMEM=y
```

and still not working
any ideas !!!

Subject: Re: Kernal Problem !
Posted by [Java](#) on Sun, 21 Sep 2008 11:18:18 GMT
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[solved]
