

<http://www.howtoforge.com/installing-and-using-openvz-on-centos5.2>

RAM 8Gb

Linux host-46-129 2.6.18-92.1.18.el5.028stab060.8PAE #1 SMP Mon Feb 9 22:32:30 MSK 2009

```
nuz-2.6.18-92.1.18.el5.028stab060.8PAE# 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/VolGroup00/LogVol00
#         initrd /initrd-version.img
#boot=/dev/mapper/ddf1_4c5349202020202080862925000000003714e fbe00000a28
default=0
timeout=5
splashimage=(hd0,0)/grub/splash.xpm.gz
hiddenmenu
title CentOS (2.6.18-92.1.18.el5.028stab060.8PAE)
    root (hd0,0)
    kernel /vmlinuz-2.6.18-92.1.18.el5.028stab060.8PAE ro root=/dev/VolGroup00/LogVol00
    initrd /initrd-2.6.18-92.1.18.el5.028stab060.8PAE.img
title CentOS (2.6.18-128.1.6.el5PAE)
    root (hd0,0)
    kernel /vmlinuz-2.6.18-128.1.6.el5PAE ro root=/dev/VolGroup00/LogVol00
    initrd /initrd-2.6.18-128.1.6.el5PAE.img
title CentOS (2.6.18-128.el5PAE)
    root (hd0,0)
    kernel /vmlinuz-2.6.18-128.el5PAE ro root=/dev/VolGroup00/LogVol00
```

initrd /initrd-2.6.18-128.el5PAE.img

* This system has more than 8 Gigabyte of memory. *

* It is recommended to install enterprise kernel version *

sysctl.conf

```
net.ipv4.ip_forward = 1
net.ipv4.conf.default.proxy_arp = 0
net.ipv4.conf.all.rp_filter = 1
kernel.sysrq = 1
net.ipv4.conf.default.send_redirects = 1
net.ipv4.conf.all.send_redirects = 0
net.ipv4.icmp_echo_ignore_broadcasts=1
net.ipv4.conf.default.forwarding=1
```

Kernel sysctl configuration file for Red Hat Linux

#

For binary values, 0 is disabled, 1 is enabled. See sysctl(8) and
sysctl.conf(5) for more details.

Controls IP packet forwarding

```
net.ipv4.ip_forward = 0
```

Controls source route verification

```
net.ipv4.conf.default.rp_filter = 1
```

Do not accept source routing

```
net.ipv4.conf.default.accept_source_route = 0
```

Controls the System Request debugging functionality of the kernel

```
kernel.sysrq = 0
```

Controls whether core dumps will append the PID to the core filename

Useful for debugging multi-threaded applications

```
kernel.core_uses_pid = 1
```

Controls the use of TCP syncookies

```
net.ipv4.tcp_syncookies = 1
```

Controls the maximum size of a message, in bytes

kernel.msgmnb = 65536

Controls the default maximum size of a message queue
kernel.msgmax = 65536

Controls the maximum shared segment size, in bytes
kernel.shmmax = 4294967295

Controls the maximum number of shared memory segments, in pages
kernel.shmall = 268435456

Subject: Re: CENTOS 5.2 PAE SMP sysctl
Posted by [maratrus](#) on Wed, 15 Apr 2009 06:46:10 GMT
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1.
Quote:

ovzkernel-PAE.i686

"vmlinuz-2.6.18-92.1.18.el5.028stab060.8PAE".

2.
Quote:

3.
Quote:

4.
Quote:

5.
Quote:

Subject: Re: CENTOS 5.2 PAE SMP sysctl
Posted by [valmon](#) on Wed, 15 Apr 2009 07:56:41 GMT
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```
[root@host-46-129 vz]# vzctl enter 46130
entered into CT 46130
[root@host-46-130 /]# ping 213.248.1.6
PING 213.248.1.6 (213.248.1.6) 56(84) bytes of data.
64 bytes from 213.248.1.6: icmp_seq=1 ttl=61 time=1.02 ms
64 bytes from 213.248.1.6: icmp_seq=2 ttl=61 time=1.02 ms
64 bytes from 213.248.1.6: icmp_seq=3 ttl=61 time=1.02 ms

--- 213.248.1.6 ping statistics ---
3 packets transmitted, 3 received, 0% packet loss, time 1999ms
rtt min/avg/max/mdev = 1.022/1.024/1.026/0.026 ms
[root@host-46-130 /]# ping mail.ru
ping: unknown host mail.ru
```

[root@host-46-130 /]#

Subject: Re: CENTOS 5.2 PAE SMP sysctl
Posted by [maratrus](#) on Wed, 15 Apr 2009 08:39:12 GMT
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Subject: Re: CENTOS 5.2 PAE SMP sysctl
Posted by [valmon](#) on Wed, 15 Apr 2009 08:48:34 GMT
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2
[root@host-46-129 vz]# cat /etc/resolv.conf
nameserver 87.240.1.1
nameserver 213.248.0.6
[root@host-46-129 vz]# vzctl enter 46130
entered into CT 46130
[root@host-46-130 /]# cat /etc/resolv.conf
nameserver 213.248.1.6
[root@host-46-130 /]#

Subject: Re: CENTOS 5.2 PAE SMP sysctl
Posted by [maratrus](#) on Wed, 15 Apr 2009 09:09:31 GMT
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2.

Quote:

```
"iptables -t nat -L && iptables -t filter -L && iptables -t mangle -L"
```

3.

Quote:

Subject: Re: CENTOS 5.2 PAE SMP sysctl
Posted by [valmon](#) on Wed, 15 Apr 2009 09:18:11 GMT
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```
[root@host-46-129 vz]# ping mail.ru
PING mail.ru (194.67.57.226) 56(84) bytes of data.
64 bytes from mail.ru (194.67.57.226): icmp_seq=1 ttl=122 time=1.83 ms
64 bytes from mail.ru (194.67.57.226): icmp_seq=2 ttl=122 time=1.57 ms
64 bytes from mail.ru (194.67.57.226): icmp_seq=3 ttl=122 time=2.07 ms
```

```
--- mail.ru ping statistics ---
```

```
3 packets transmitted, 3 received, 0% packet loss, time 2001ms
```

```
rtt min/avg/max/mdev = 1.579/1.829/2.075/0.202 ms
```

```
[root@host-46-129 vz]# cat /etc/resolv.conf
```

```
nameserver 87.240.1.1
```

```
nameserver 213.248.0.6
```

```
[root@host-46-129 vz]# vzctl enter 46130
```

```
entered into CT 46130
```

```
[root@host-46-130 /]# ping mail.ru
ping: unknown host mail.ru
[root@host-46-130 /]# ping 213.248.46.129
PING 213.248.46.129 (213.248.46.129) 56(84) bytes of data.
64 bytes from 213.248.46.129: icmp_seq=1 ttl=64 time=0.030 ms
64 bytes from 213.248.46.129: icmp_seq=2 ttl=64 time=0.014 ms
```

```
--- 213.248.46.129 ping statistics ---
2 packets transmitted, 2 received, 0% packet loss, time 1000ms
rtt min/avg/max/mdev = 0.014/0.022/0.030/0.008 ms
[root@host-46-130 /]# ping 213.248.0.6
PING 213.248.0.6 (213.248.0.6) 56(84) bytes of data.
64 bytes from 213.248.0.6: icmp_seq=1 ttl=61 time=0.842 ms
64 bytes from 213.248.0.6: icmp_seq=2 ttl=61 time=0.896 ms

--- 213.248.0.6 ping statistics ---
2 packets transmitted, 2 received, 0% packet loss, time 1000ms
rtt min/avg/max/mdev = 0.842/0.869/0.896/0.027 ms
[root@host-46-130 /]#
```

Subject: Re: CENTOS 5.2 PAE SMP sysctl
Posted by [maratrus](#) on Wed, 15 Apr 2009 09:37:31 GMT
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Subject: Re: CENTOS 5.2 PAE SMP sysctl
Posted by [valmon](#) on Wed, 15 Apr 2009 10:02:03 GMT
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```
[root@host-46-129 etc]# iptables -t nat -L && iptables -t filter -L && iptables -t mangle -L
Chain PREROUTING (policy ACCEPT)
target    prot opt source                destination

Chain POSTROUTING (policy ACCEPT)
target    prot opt source                destination

Chain OUTPUT (policy ACCEPT)
target    prot opt source                destination
```

Chain INPUT (policy ACCEPT)

target	prot	opt	source	destination
RH-Firewall-1-INPUT	all	--	anywhere	anywhere

Chain FORWARD (policy ACCEPT)

target	prot	opt	source	destination
RH-Firewall-1-INPUT	all	--	anywhere	anywhere

Chain OUTPUT (policy ACCEPT)

target	prot	opt	source	destination
--------	------	-----	--------	-------------

Chain RH-Firewall-1-INPUT (2 references)

target	prot	opt	source	destination	
ACCEPT	all	--	anywhere	anywhere	
ACCEPT	icmp	--	anywhere	anywhere	icmp any
ACCEPT	esp	--	anywhere	anywhere	
ACCEPT	ah	--	anywhere	anywhere	
ACCEPT	udp	--	anywhere	224.0.0.251	udp dpt:mdns
ACCEPT	udp	--	anywhere	anywhere	udp dpt:ipp
ACCEPT	tcp	--	anywhere	anywhere	tcp dpt:ipp
ACCEPT	all	--	anywhere	anywhere	state RELATED,ESTABLISHED
ACCEPT	tcp	--	anywhere	anywhere	state NEW tcp dpt:ssh
ACCEPT	tcp	--	anywhere	anywhere	state NEW tcp dpt:smtp
REJECT	all	--	anywhere	anywhere	reject-with icmp-host-prohibited

Chain PREROUTING (policy ACCEPT)

target	prot	opt	source	destination
--------	------	-----	--------	-------------

Chain INPUT (policy ACCEPT)

target	prot	opt	source	destination
--------	------	-----	--------	-------------

Chain FORWARD (policy ACCEPT)

target	prot	opt	source	destination
--------	------	-----	--------	-------------

Chain OUTPUT (policy ACCEPT)

target	prot	opt	source	destination
--------	------	-----	--------	-------------

Chain POSTROUTING (policy ACCEPT)

target	prot	opt	source	destination
--------	------	-----	--------	-------------

[root@host-46-129 etc]#

```
[root@host-46-130 /]# iptables -t nat -L && iptables -t filter -L && iptables -t mangle -L
iptables v1.3.5: can't initialize iptables table `nat': Table does not exist (do you need to insmod?)
Perhaps iptables or your kernel needs to be upgraded.
[root@host-46-130 /]#
```



```
[root@host-46-129 vz]# vzctl set 46130 --nameserver 4.2.2.1 --save
File resolv.conf was modified
Saved parameters for CT 46130
[root@host-46-129 vz]# vzctl stop 46130
Stopping container ...
Container was stopped
Container is unmounted
[root@host-46-129 vz]# vzctl start 46130
Starting container ...
Container is mounted
Adding IP address(es): 213.248.46.130
Setting CPU units: 1000
Configure meminfo: 65536
Set hostname: host-46-130.ru-point.com
File resolv.conf was modified
Container start in progress...
[root@host-46-129 vz]# vzctl enter 46130
entered into CT 46130
[root@host-46-130 /]# ping mail.ru
ping: unknown host mail.ru
[root@host-46-130 /]# cat /etc/resolv.conf
nameserver 4.2.2.1
[root@host-46-130 /]#
```

Subject: Re: CENTOS 5.2 PAE SMP sysctl
Posted by [maratrus](#) on Wed, 15 Apr 2009 11:01:59 GMT
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Quote:

```
[root@host-46-130 /]# iptables -t nat -L && iptables -t filter -L && iptables -t mangle -L
iptables v1.3.5: can't initialize iptables table `nat': Table does not exist (do you need to insmod?)
Perhaps iptables or your kernel needs to be upgraded.
[root@host-46-130 /]#
```

Subject: Re: CENTOS 5.2 PAE SMP sysctl
Posted by [valmon](#) on Wed, 15 Apr 2009 11:08:30 GMT
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maratrus wrote on Wed, 15 April 2009 07:01Quote:

```
[root@host-46-130 /]# iptables -t nat -L && iptables -t filter -L && iptables -t mangle -L
iptables v1.3.5: can't initialize iptables table `nat': Table does not exist (do you need to insmod?)
Perhaps iptables or your kernel needs to be upgraded.
[root@host-46-130 /]#
```

Subject: Re: CENTOS 5.2 PAE SMP sysctl

```
-A RH-Firewall-1-INPUT -p tcp -m state --state NEW -m tcp --dport 53 -j ACCEPT
-A RH-Firewall-1-INPUT -p udp -m state --state NEW -m udp --dport 53 -j ACCEPT
```

```
[root@host-46-129 ~]# iptables-save
# Generated by iptables-save v1.3.5 on Fri Apr 17 00:03:02 2009
*mangle
:PREROUTING ACCEPT [58:5106]
:INPUT ACCEPT [57:5028]
:FORWARD ACCEPT [0:0]
:OUTPUT ACCEPT [59:10694]
:POSTROUTING ACCEPT [59:10694]
COMMIT
# Completed on Fri Apr 17 00:03:02 2009
# Generated by iptables-save v1.3.5 on Fri Apr 17 00:03:02 2009
*filter
:INPUT ACCEPT [0:0]
:FORWARD ACCEPT [0:0]
:OUTPUT ACCEPT [49:9298]
:RH-Firewall-1-INPUT - [0:0]
-A INPUT -j RH-Firewall-1-INPUT
-A FORWARD -j RH-Firewall-1-INPUT
-A RH-Firewall-1-INPUT -i lo -j ACCEPT
-A RH-Firewall-1-INPUT -p icmp -m icmp --icmp-type any -j ACCEPT
-A RH-Firewall-1-INPUT -p esp -j ACCEPT
-A RH-Firewall-1-INPUT -p ah -j ACCEPT
-A RH-Firewall-1-INPUT -d 224.0.0.251 -p udp -m udp --dport 5353 -j ACCEPT
-A RH-Firewall-1-INPUT -p udp -m udp --dport 631 -j ACCEPT
-A RH-Firewall-1-INPUT -p tcp -m tcp --dport 631 -j ACCEPT
-A RH-Firewall-1-INPUT -m state --state RELATED,ESTABLISHED -j ACCEPT
-A RH-Firewall-1-INPUT -p tcp -m state --state NEW -m tcp --dport 22 -j ACCEPT
-A RH-Firewall-1-INPUT -p tcp -m state --state NEW -m tcp --dport 25 -j ACCEPT
-A RH-Firewall-1-INPUT -p tcp -m state --state NEW -m tcp --dport 53 -j ACCEPT
-A RH-Firewall-1-INPUT -p udp -m state --state NEW -m udp --dport 53 -j ACCEPT
-A RH-Firewall-1-INPUT -j REJECT --reject-with icmp-host-prohibited
COMMIT
# Completed on Fri Apr 17 00:03:02 2009
[root@host-46-129 ~]# vzctl start 46130
Container is already running
```

```
[root@host-46-129 ~]# vzctl stop 46130
Stopping container ...
Container was stopped
Container is unmounted
[root@host-46-129 ~]# vzctl start 46130
Starting container ...
Container is mounted
Adding IP address(es): 213.248.46.130
Setting CPU units: 1000
Configure meminfo: 65536
Set hostname: host-46-130.xxxxxxx.com
File resolv.conf was modified
Container start in progress...
[root@host-46-129 ~]# vzctl enter 46130
entered into CT 46130
[root@host-46-130 /]# ping mail.ru
PING mail.ru (194.67.57.226) 56(84) bytes of data.
64 bytes from mail.ru (194.67.57.226): icmp_seq=1 ttl=120 time=1.85 ms
64 bytes from mail.ru (194.67.57.226): icmp_seq=2 ttl=120 time=1.56 ms
64 bytes from mail.ru (194.67.57.226): icmp_seq=3 ttl=120 time=1.57 ms
64 bytes from mail.ru (194.67.57.226): icmp_seq=4 ttl=120 time=6.06 ms

--- mail.ru ping statistics ---
4 packets transmitted, 4 received, 0% packet loss, time 3002ms
rtt min/avg/max/mdev = 1.569/2.765/6.067/1.910 ms
[root@host-46-130 /]#
```

Subject: Re: CENTOS 5.2 PAE SMP sysctl
Posted by [maratrus](#) on Thu, 16 Apr 2009 13:13:35 GMT
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Quote:

http://www.redhat.com/docs/en-US/Red_Hat_Enterprise_Linux/5/html/Deployment_Guide/s1-iptables-init.html
