Subject: [SOLVED] Unable to set capability: Invalid argument
Posted by thorpe on Sun, 18 May 2008 06:19:55 GMT
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None of my vps's are able to boot because of the following error.

thorpe@oblivion ~ # vzctl start 10100
Starting VE ...
VE is mounted
Unable to set capability: Invalid argument
Unable to set capability
VE start failed
VE is unmounted
thorpe@oblivion ~ #

A quick search of this board hasn't helped much, someone suggested removing lcap, but I do not have lcap installed.

I am running a custom compiled kernel that I built from the kernel-2.6.24-ovz004.1.src.rpm rpm.

The steps I went through are quit long winded, but I can explain if required.

I am running Debian sid (x86_64) with 8G of memory.

These vps had been running without issue for the last month or so, I' just not sure where to start looking.

My /etc/vz/vz.conf file.

Global parameters
VIRTUOZZO=yes
LOCKDIR=/var/lib/vz/lock
DUMPDIR=/var/lib/vz/dump
VE0CPUUNITS=1000

Logging parameters
LOGGING=yes
LOGFILE=/var/log/vzctl.log
LOG_LEVEL=0
VERBOSE=0

Disk quota parameters
DISK_QUOTA=no
VZFASTBOOT=no

The name of the device whose ip address will be used as source ip for VE.

```
# By default automatically assigned.
#VE_ROUTE_SRC_DEV="eth0"

# Controls which interfaces to send ARP requests and modify APR tables on.
NEIGHBOUR_DEVS=detect

## Template parameters
TEMPLATE=/var/lib/vz/template

## Defaults for VEs
VE_ROOT=/var/lib/vz/root/$VEID
VE_PRIVATE=/var/lib/vz/private/$VEID
CONFIGFILE="my-16"
DEF_OSTEMPLATE="debian-4.0"

## Load vzwdog module
VZWDOG="no"

## IPv4 iptables kernel modules
IPTABLES="ipt_REJECT ipt_tos ipt_limit ipt_multiport iptable_filter iptable_mangle ipt_TCPMSS
ipt_tcpmss ipt_ttl ipt_length"

## Enable IPv6
IPV6="no"

## IPv6 ip6tables kernel modules
IP6TABLES="ip6_tables ip6table_filter ip6table_mangle ip6t_REJECT"
```

My /etc/vz/conf/ve-my-16.conf.sample file

```
# Configuration file generated by vzsplit for 16 VEs
# on HN with total amount of physical mem 7977 Mb
# low memory 7977 Mb, swap size 1921 Mb, Max treads 8000
# Resourse commit level 0:
# Free resource distribution. Any parameters may be increased
# Primary parameters
NUMPROC="2552:2552"
AVNUMPROC="1276:1276"
NUMTCPSOCK="2552:2552"
NUMOTHERSOCK="2552:2552"
VMGUARPAGES="106535:9223372036854775807"

# Secondary parameters
KMEMSIZE="104566476:115023123"
TCPSNDBUF="24402500:34855492"
TCPRCVBUF="24402500:34855492"
OTHERSOCKBUF="12201250:22654242"
```

DGRAMRCVBUF="12201250:12201250"
OOMGUARPAGES="106535:9223372036854775807"
PRIVVMPAGES="639210:703131"

# Auxiliary parameters
LOCKEDPAGES="5105:5105"
SHMPAGES="63921:63921"
PHYSPAGES="0:9223372036854775807"
NUMFILE="40832:40832"
NUMFLOCK="1000:1100"
NUMPTY="255:255"
NUMSIGINFO="1024:1024"
DCACHESIZE="22834205:23519232"
NUMIPTENT="125:125"
DISKSPACE="936398:1030038"
DISKINODES="254089:279499"
CPUUNITS="17651"

And one of my vps's config files /etc/vz/conf/10100.conf

# Configuration file generated by vzsplit for 20 VEs
# on HN with total amount of physical mem 7977 Mb
# low memory 7977 Mb, swap size 1921 Mb, Max treads 8000
# Resourse commit level 0:
# Free resource distribution. Any parameters may be increased
# Primary parameters
NUMPROC="2552:2552"
AVNUMPROC="1276:1276"
NUMTCPSOCK="2552:2552"
NUMOTHERSOCK="2552:2552"
VMGUARPAGES="106535:9223372036854775807"

# Secondary parameters
KMEMSIZE="104566476:115023123"
TCPSNDBUF="24402500:34855492"
TCPRCVBUF="24402500:34855492"
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DGRAMRCVBUF="12201250:12201250"
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NUMFLOCK="1000:1100"

NUMPTY="255:255"
NUMSIGINFO="1024:1024"
DCACHESIZE="22834205:23519232"
NUMIPTENT="125:125"
DISKSPACE="936398:1030038"
DISKINODES="254089:279499"
CPUUNITS="17651"
IP_ADDRESS="192.168.10.100"
HOSTNAME="dns"
VE_ROOT="/var/lib/vz/root/$VEID"
VE_PRIVATE="/var/lib/vz/private/$VEID"
OSTEMPLATE="debian-4.0-i386-mydns"
ORIGIN_SAMPLE="my-16"
ONBOOT="yes"
NAME="dns"
NAMESERVER="127.0.0.1"

This is my local nameserver so ignore the NAMESERVER directive.

I am having an issue with klogd not being able to start, not sure if this is at all related.

Any help much appreciated.

Subject: Re: Unable to set capability: Invalid argument
Posted by kir on Sun, 18 May 2008 17:44:46 GMT
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This is a known issue which will be fixed in the next vzctl release. For now, you have to recompile vzctl against the headers of kernel less than 2.6.25. The header that's causing the problem is /usr/include/linux/capability.h

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Subject: Re: Unable to set capability: Invalid argument
Posted by thorpe on Sun, 18 May 2008 23:30:35 GMT
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Thankyou very much, sounds like a reasonably easy fix.

I'll get to it later today and let you know how it went.

Subject: Re: Unable to set capability: Invalid argument
Posted by thorpe on Wed, 21 May 2008 12:04:15 GMT
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Ok, Iv'e compiled vzctl myself against my 2.6.24 kernel and Ive still got the exact same error.

Any ideas?

Subject: Re: Unable to set capability: Invalid argument
Posted by kir on Wed, 21 May 2008 13:08:16 GMT
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Make sure that /usr/include/linux/capability.h is from linux kernel sources 2.6.24 or earlier.

Subject: Re: Unable to set capability: Invalid argument
Posted by thorpe on Wed, 21 May 2008 14:48:17 GMT
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I'm not at home at the moment so have no way of checking. Ive used the vanilla 2.6.24 kernel from kernel.org.

Why/how would /usr/include/linux/capability.h be from another (newer) version of the kernel? Ive never actually had any kernel newer than 2.6.24 on this machine.

Subject: Re: Unable to set capability: Invalid argument
Posted by thorpe on Mon, 26 May 2008 00:30:25 GMT
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Can anyone shed some more light on this subject? Its really quite annoying.

Subject: Re: Unable to set capability: Invalid argument
Posted by marcusb on Mon, 26 May 2008 11:23:02 GMT
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I just got the same issue, with a self-compiled 2.6.24 kernel and vzctl 3.0.22-7 on Debian. Downgrading vzctl to 3.0.11-13 helped, but it used to work with earlier 3.0.22 packages too. So it indeed seems like a recompilation issue.

The capability.h header in Debian comes from the linux-libc-dev package which was updated to mainline 2.6.24.7 (from 2.6.24.4) on May 7.

Subject: Re: Unable to set capability: Invalid argument
Posted by azagzin on Mon, 26 May 2008 11:50:25 GMT

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copy compiler.h and capability.h from kernel-headers-2.6.24 to /usr/include/linux/ (on Gentoo) and then recompile vzctl

see post
http://forum.openvz.org/index.php?t=tree&goto=30146& #msg_30146
this help for me

Subject: Re: Unable to set capability: Invalid argument
Posted by thorpe on Tue, 27 May 2008 05:10:48 GMT
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Thanks for the replies, downgrading to 3.0.11-13 seems to have fixed the issue, my vps's are back up and running without issue.