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Subject: Docker into OpenVZ container

Posted by [wiuempe](#) on Thu, 21 May 2015 08:35:59 GMT

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Hello, i want to setup docker into openvz container with this howto:

[wiki.openvz.org/Docker\\_inside\\_CT](http://wiki.openvz.org/Docker_inside_CT) . When i trying to run docker service, i have message about error in mounts:

```
docker:~# bash -x /etc/init.d/docker start
+ set -e
+ export PATH=/sbin:/bin:/usr/sbin:/usr/bin:/usr/local/sbin:/usr/local/bin
+ PATH=/sbin:/bin:/usr/sbin:/usr/bin:/usr/local/sbin:/usr/local/bin
++ basename /etc/init.d/docker
+ BASE=docker
+ DOCKER=/usr/bin/docker
+ DOCKER_PIDFILE=/var/run/docker.pid
+ DOCKER_SSD_PIDFILE=/var/run/docker-ssd.pid
+ DOCKER_LOGFILE=/var/log/docker.log
+ DOCKER_OPTS=
+ DOCKER_DESC=Docker
+ . /lib/lsb/init-functions
+++ run-parts --lsbsysinit --list /lib/lsb/init-functions.d
++ for hook in '$(run-parts --lsbsysinit --list /lib/lsb/init-functions.d 2>/dev/null)'
++ '[' -r /lib/lsb/init-functions.d/20-left-info-blocks ']'
++ . /lib/lsb/init-functions.d/20-left-info-blocks
++ FANCYTTY=
++ '[' -e /etc/lsb-base-logging.sh ']'
++ true
+ '[' -f /etc/default/docker ']'
+ . /etc/default/docker
+ '[' -x /sbin/initctl ']'
+ '[' '!' -x /usr/bin/docker ']'
+ case "$1" in
+ fail_unless_root
++ id -u
+ '[' 0 '!=' 0 ']'
+ cgroupfs_mount
+ grep -v '^#' /etc/fstab
+ grep -q cgroup
+ '[' '!' -e /proc/cgroups ']'
+ '[' '!' -d /sys/fs/cgroup ']'
+ mountpoint -q /sys/fs/cgroup
+ cd /sys/fs/cgroup
++ awk '!/^#/ { if ($4 == 1) print $1 }' /proc/cgroups
+ for sys in '$(awk '!/^#/ { if ($4 == 1) print $1 }' /proc/cgroups)'
+ mkdir -p cpuset
+ mountpoint -q cpuset
+ mount -n -t cgroup -o cpuset cgroup cpuset
```

mount: wrong fs type, bad option, bad superblock on cgroup,  
missing codepage or helper program, or other error  
(for several filesystems (e.g. nfs, cifs) you might  
need a /sbin/mount.<type> helper program)  
In some cases useful info is found in syslog - try  
dmesg | tail or so

```
+ rmdir cpuset
+ for sys in $(awk '!/^#/ { if ($4 == 1) print $1 }' /proc/cgroups)
+ mkdir -p cpu
+ mountpoint -q cpu
+ mount -n -t cgroup -o cpu cgroup cpu
```

mount: wrong fs type, bad option, bad superblock on cgroup,  
missing codepage or helper program, or other error  
(for several filesystems (e.g. nfs, cifs) you might  
need a /sbin/mount.<type> helper program)  
In some cases useful info is found in syslog - try  
dmesg | tail or so

```
+ rmdir cpu
+ for sys in $(awk '!/^#/ { if ($4 == 1) print $1 }' /proc/cgroups)
+ mkdir -p cpuacct
+ mountpoint -q cpuacct
+ mount -n -t cgroup -o cpuacct cgroup cpuacct
```

mount: wrong fs type, bad option, bad superblock on cgroup,  
missing codepage or helper program, or other error  
(for several filesystems (e.g. nfs, cifs) you might  
need a /sbin/mount.<type> helper program)  
In some cases useful info is found in syslog - try  
dmesg | tail or so

```
+ rmdir cpuacct
+ for sys in $(awk '!/^#/ { if ($4 == 1) print $1 }' /proc/cgroups)
+ mkdir -p devices
+ mountpoint -q devices
+ mount -n -t cgroup -o devices cgroup devices
```

mount: wrong fs type, bad option, bad superblock on cgroup,  
missing codepage or helper program, or other error  
(for several filesystems (e.g. nfs, cifs) you might  
need a /sbin/mount.<type> helper program)  
In some cases useful info is found in syslog - try  
dmesg | tail or so

```
+ rmdir devices
+ for sys in $(awk '!/^#/ { if ($4 == 1) print $1 }' /proc/cgroups)
+ mkdir -p freezer
+ mountpoint -q freezer
+ mount -n -t cgroup -o freezer cgroup freezer
```

mount: wrong fs type, bad option, bad superblock on cgroup,  
missing codepage or helper program, or other error  
(for several filesystems (e.g. nfs, cifs) you might  
need a /sbin/mount.<type> helper program)  
In some cases useful info is found in syslog - try  
dmesg | tail or so

```
+ rmdir freezer
+ for sys in $(awk '!/^#/ { if ($4 == 1) print $1 }' /proc/cgroups)
+ mkdir -p net_cls
+ mountpoint -q net_cls
+ mount -n -t cgroup -o net_cls cgroup net_cls
mount: wrong fs type, bad option, bad superblock on cgroup,
missing codepage or helper program, or other error
(for several filesystems (e.g. nfs, cifs) you might
need a /sbin/mount.<type> helper program)
In some cases useful info is found in syslog - try
dmesg | tail or so
```

```
+ rmdir net_cls
+ for sys in $(awk '!/^#/ { if ($4 == 1) print $1 }' /proc/cgroups)
+ mkdir -p blkio
+ mountpoint -q blkio
+ for sys in $(awk '!/^#/ { if ($4 == 1) print $1 }' /proc/cgroups)
+ mkdir -p perf_event
+ mountpoint -q perf_event
+ mount -n -t cgroup -o perf_event cgroup perf_event
mount: wrong fs type, bad option, bad superblock on cgroup,
missing codepage or helper program, or other error
(for several filesystems (e.g. nfs, cifs) you might
need a /sbin/mount.<type> helper program)
In some cases useful info is found in syslog - try
dmesg | tail or so
```

```
+ rmdir perf_event
+ for sys in $(awk '!/^#/ { if ($4 == 1) print $1 }' /proc/cgroups)
+ mkdir -p net_prio
+ mountpoint -q net_prio
+ mount -n -t cgroup -o net_prio cgroup net_prio
mount: wrong fs type, bad option, bad superblock on cgroup,
missing codepage or helper program, or other error
(for several filesystems (e.g. nfs, cifs) you might
need a /sbin/mount.<type> helper program)
In some cases useful info is found in syslog - try
dmesg | tail or so
```

```
+ rmdir net_prio
+ for sys in $(awk '!/^#/ { if ($4 == 1) print $1 }' /proc/cgroups)
```

```

+ mkdir -p memory
+ mountpoint -q memory
+ touch /var/log/docker.log
+ chgrp docker /var/log/docker.log
+ ulimit -n 1048576
+ '[' /bin/bash ']'
+ ulimit -u 1048576
+ log_begin_msg 'Starting Docker: docker'
+ log_begin_msg_pre 'Starting Docker: docker'
+ log_daemon_msg_pre 'Starting Docker: docker'
+ log_use_fancy_output
+ TPUT=/usr/bin/tput
+ EXPR=/usr/bin/expr
+ '[' -t 1 ']'
+ '[' xterm '!=' x ']'
+ '[' xterm '!=' xdumb ']'
+ '[' -x /usr/bin/tput ']'
+ '[' -x /usr/bin/expr ']'
+ /usr/bin/tput hpa 60
+ /usr/bin/tput setaf 1
+ '[' -z ']'
+ FANCYTTY=1
+ case "$FANCYTTY" in
+ true
+ /bin/echo -n '[...]'
[...]+ '[' -z 'Starting Docker: docker' ']'
+ /bin/echo -n 'Starting Docker: docker'
Starting Docker: docker+ log_begin_msg_post 'Starting Docker: docker'
+ :
+ start-stop-daemon --start --background --no-close --exec /usr/bin/docker --pidfile
/var/run/docker-ssd.pid --make-pidfile -- -d -p /var/run/docker.pid
+ log_end_msg 0
+ '[' -z 0 ']'
+ local retval
+ retval=0
+ log_end_msg_pre 0
+ log_use_fancy_output
+ TPUT=/usr/bin/tput
+ EXPR=/usr/bin/expr
+ '[' -t 1 ']'
+ '[' xterm '!=' x ']'
+ '[' xterm '!=' xdumb ']'
+ '[' -x /usr/bin/tput ']'
+ '[' -x /usr/bin/expr ']'
+ /usr/bin/tput hpa 60
+ /usr/bin/tput setaf 1
+ '[' -z 1 ']'
+ true

```

```

+ case "$FANCYTTY" in
+ true
++ /usr/bin/tput setaf 1
+ RED=""
++ /usr/bin/tput setaf 2
+ GREEN=""
++ /usr/bin/tput setaf 3
+ YELLOW=""
++ /usr/bin/tput op
+ NORMAL=""
+ /usr/bin/tput civis
+ /usr/bin/tput sc
+ /usr/bin/tput hpa 0
+ '[' 0 -eq 0 ']'
+ /bin/echo -ne '[ ok '
[ ok + /usr/bin/tput rc
+ /usr/bin/tput cnorm
+ log_use_fancy_output
+ TPUT=/usr/bin/tput
+ EXPR=/usr/bin/expr
+ '[' -t 1 ']'
+ '[' xterm '!=' x ']'
+ '[' xterm '!=' xdumb ']'
+ '[' -x /usr/bin/tput ']'
+ '[' -x /usr/bin/expr ']'
+ /usr/bin/tput hpa 60
+ /usr/bin/tput setaf 1
+ '[' -z 1 ']'
+ true
+ case "$FANCYTTY" in
+ true
++ /usr/bin/tput setaf 1
+ RED=""
++ /usr/bin/tput setaf 3
+ YELLOW=""
++ /usr/bin/tput op
+ NORMAL=""
+ '[' 0 -eq 0 ']'
+ echo .
.
+ log_end_msg_post 0
+ :
+ return 0

```

When i trying to run docker, i have:

```
docker:~# docker -D run ubuntu:14.04 /bin/echo 'Hello world'
```

```
DEBU[0010] Corrupted prefix: []
```

```
DEBU[0010] [hijack] End of stdout
```

```
DEBU[0010] End of CmdRun(), Waiting for hijack to finish.
```

FATA[0010] Error response from daemon: Cannot start container 37334e43a8384e845594f16e3b76a3d0c4153cd91a24e9c7806a5ac80db44696: [8] System error: mountpoint for cpu not found

I found this error is when docker havent cgroup for cpu, so i trying mount cpu cgroup support on host, but i cannot:

```
root@lubtest03:~# mount
sysfs on /sys type sysfs (rw,nosuid,nodev,noexec,relatime)
proc on /proc type proc (rw,nosuid,nodev,noexec,relatime)
udev on /dev type devtmpfs (rw,relatime,size=10240k,nr_inodes=4115565,mode=755)
devpts on /dev/pts type devpts (rw,nosuid,noexec,relatime,gid=5,mode=620,ptmxmode=000)
tmpfs on /run type tmpfs (rw,nosuid,noexec,relatime,size=3294292k,mode=755)
/dev/mapper/s-root on / type xfs (rw,relatime,attr2,delaylog,noquota)
tmpfs on /run/lock type tmpfs (rw,nosuid,nodev,noexec,relatime,size=5120k)
tmpfs on /run/shm type tmpfs (rw,nosuid,nodev,noexec,relatime,size=8266300k)
/dev/mapper/s-docker on /fs/v/docker type xfs (rw,relatime,attr2,delaylog,noquota)
rpc_pipefs on /var/lib/nfs/rpc_pipefs type rpc_pipefs (rw,relatime)
beancounter on /proc/vz/beancounter type cgroup (rw,relatime,blkio,name=beancounter)
container on /proc/vz/container type cgroup (rw,relatime,freezer,devices,name=container)
fairsched on /proc/vz/fairsched type cgroup (rw,relatime,cpuacct,cpu,cpuset,name=fairsched)
/fs/v/docker/private on /fs/v/docker/root type simfs (rw,relatime)
proc on /fs/v/docker/root/proc type proc (rw,nosuid,nodev,noexec,relatime)
sysfs on /fs/v/docker/root/sys type sysfs (rw,nosuid,nodev,noexec,relatime)
cgroup on /fs/v/docker/root/sys/fs/cgroup type tmpfs (rw,relatime)
tmpfs on /fs/v/docker/root/var/run type tmpfs (rw,nosuid,noexec,relatime)
tmpfs on /fs/v/docker/root/var/run/lock type tmpfs (rw,nosuid,nodev,noexec,relatime)
tmpfs on /fs/v/docker/root/var/run/shm type tmpfs (rw,nosuid,nodev,noexec,relatime)
devpts on /fs/v/docker/root/dev/pts type devpts
(rw,nosuid,noexec,relatime,mode=600,ptmxmode=000)
tmpfs on /fs/v/docker/root/run type tmpfs (rw,nosuid,noexec,relatime)
/fs/v/docker/private on /fs/v/docker/root/run/lock type simfs (rw,relatime)
tmpfs on /fs/v/docker/root/run/shm type tmpfs (rw,nosuid,nodev,noexec,relatime)
cgroup on /fs/v/docker/root/sys/fs/cgroup/blkio type cgroup (rw,relatime,blkio,name=beancounter)
cgroup on /fs/v/docker/root/sys/fs/cgroup/memory type cgroup (rw,relatime,memory)
root@lubtest03:~# mkdir /fs/v/docker/root/sys/fs/cgroup/cpuset; mount -t cgroup cpuset -ocpuset
/fs/v/docker/root/sys/fs/cgroup/cpuset
mount: cpuset already mounted or /fs/v/docker/root/sys/fs/cgroup/cpuset busy
root@lubtest03:~# mount | grep cpu
fairsched on /proc/vz/fairsched type cgroup (rw,relatime,cpuacct,cpu,cpuset,name=fairsched)
root@lubtest03:~#
```

```
root@lubtest03:~# uname -r
2.6.32-openvz-042stab105.4-amd64
root@lubtest03:~# vzctl --version
vzctl version 4.9.1
```

```
root@lubtest03:~# lsb_release -a
No LSB modules are available.
Distributor ID: Debian
Description:   Debian GNU/Linux 7.8 (wheezy)
Release:      7.8
Codename:     wheezy
root@lubtest03:~# vzctl enter docker
entered into CT 172320
docker:/# lsb_release -a
No LSB modules are available.
Distributor ID: Debian
Description:   Debian GNU/Linux 7.1 (wheezy)
Release:      7.1
Codename:     wheezy
docker:/#
```

What can i doing with this?

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