Subject: *SOLVED* quagga on FC5 and RHEL4
Posted by teleport on Wed, 13 Sep 2006 12:05:41 GMT
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Hi all,

I have troubles with quagga and FC5 (kernel: 2.6.15-1.2054_FC5.026test006) and RHEL4 (CentOS 4.4, kernel: 2.6.9-023stab016.2). Quagga routing daemon (zebra) can not insert routes into kernel. Error is:

2006/09/13 14:57:17 ZEBRA: netlink_route_multipath() (single hop): RTM_NEWROUTE 10.0.1.0/24, type IPv4 nexthop
2006/09/13 14:57:17 ZEBRA: netlink_route_multipath() (single hop): nexthop via 192.168.11.23 if 4
2006/09/13 14:57:17 ZEBRA: netlink_talk: netlink-cmd type RTM_NEWROUTE(24), seq=6
2006/09/13 14:57:17 ZEBRA: netlink-cmd error: Operation not permitted, type=RTM_NEWROUTE(24), seq=6, pid=0

Ospf and bgp daemons works fine. Selinux is disabled. Everything work fine, except quagga. Is there a solution for this problem?

Thank You.

Subject: Re: quagga on FC5 and RHEL4
Posted by dim on Wed, 13 Sep 2006 12:12:20 GMT
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Could you strace it?
http://wiki.openvz.org/Stracing_a_program
Please, post it's output somewhere as well as kernel version.

Subject: Re: quagga on FC5 and RHEL4
Posted by teleport on Sun, 17 Sep 2006 17:46:25 GMT
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There is strace. Same pc, same config (included in tar.gz), only running kernel differs.

File Attachments
1) centos_2.6.9-42.0.2.EL.tar.gz, downloaded 760 times
2) openvz_ovzkernel-2.6.9-023stab016.2.tar.gz, downloaded 741 times

Subject: Re: quagga on FC5 and RHEL4
Posted by poelzi on Mon, 02 Oct 2006 21:45:19 GMT
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I ran into the same problem the last two days. I just learning bgp so it was kinda hard to find

i managed to run quagga (bgpd + zebra) inside a vz instance with some hackts. 0.99.5 is the version i used and i had to change the configure parameters:

```
./configure \
        --prefix=/usr \
        --libexecdir=/usr/lib/quagga \
        --sbindir=/usr/lib/quagga \
        --sysconfdir=/etc/quagga \
        --localstatedir=/var/run/quagga \
        --enable-exampledir=$(T)/usr/share/doc/quagga/examples/ \
        \
        $(USE_SNMP) \
        --enable-vtysh \
        --enable-isisd \
        --disable-capabilities \
        --enable-watchquagga \
        --enable-ospf-te \
        --enable-opaque-lsa \
        --enable-user=root \
        --enable-group=root \
        --enable-ipv6 \
        --enable-ospfclient=yes \
        --enable-ospfapi=yes \
        --enable-multipath=64 \
        --enable-vty-group=quaggavty \
        --enable-configfile-mask=0640 \
        --enable-logfile-mask=0640 \
        --enable-rtadv \
        --enable-tcp-md5 \
        --disable-netlink \
        --with-libpam
```

netlink doesn't work and gets only permission denied returns. because using ioctl with capabilities didn' work eigher. Then I found that capabilities seems to be broken here, running zebra as root without capabilies compiled in, works fine. Here on ubuntu, zebra runs default under user quagga. zebra seems to request capabilities NET_ADMIN, SYS_ADMIN and NET_RAW when i remember correctly. For my tests i gave the instance all available und running capabilities (hope this didn't screw something up). At the beginning I only gave these three and some other caps to the instance, so quagga could continue after trying cap_set_proc, which worked.

Not sure if it matters, but some of the interface in the instance are vpn tun and tap devices. On one tap device is bgpd running.

kindly regards
daniel

Subject: Re: quagga on FC5 and RHEL4
Posted by dim on Tue, 03 Oct 2006 15:40:15 GMT
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Patch is attached

File Attachments
1) diff-netlink-perm, downloaded 908 times

Subject: Re: *SOLVED* quagga on FC5 and RHEL4
Posted by dev on Wed, 04 Oct 2006 12:35:35 GMT
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patch diff-ve-netlink-perm-20061004 queued for 2.6.9-023stab030 and 2.6.8-022stab078.23