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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't work either. Then I found that capabilities seems to be broken here, running zebra as root without capabilities 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

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