Posted by snowdeal on Wed, 15 Feb 2006 02:37:30 GMT
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since i don't see any other posts regarding this topic, i'm going to have to assume that i'm missing something basic and this is yet another opportunity for me to embarrass myself in public.

anyway, i have a openvz installed on a hardware node running rhel3 with one nic and eth0 and lo enabled by default [1]. and for the life of me i can't figure out how to assign public ips from my pool of available addresses to a new vps.

of course, at first i tried following the quick install instructions precisely [2] and ran into a "Unable to apply network parameters: VPS is not running" error. so, naturally i'd start the vps and then apply the public ip. while the vps starts without a problem, i get an error that it's unable to add the route [3] because the network is down.

next, using my faulty logic skills i thought i'd turn on the addresses on the hardware node by properly configuring ifcfg-eth0-range0 and running './ifup-aliases eth0' to bring up the pool of addresses and assign one to the new vps. but after creating the node with a slightly modified set of commands [4], when i attempt to start the vps, i receive enough errors [5] to indicate that something has gone seriously awry.

lastly, i thought i might try assigning a private ip to the node and ssh into the running vps and assign the public ip, but i run into this problem [6] where my network is claming that they have every private/non-routable IP address for reasons that i don't understand.

if someone could help get me out of this quagmire, i'd be mighty obliged.

eric

[1]
eth0   Link encap:Ethernet HWaddr my.mac.address
         inet addr:my.public.ip Bcast:my.bcast Mask:255.255.255.224
         UP BROADCAST RUNNING MULTICAST MTU:1500 Metric:1
         RX packets:262511 errors:0 dropped:0 overruns:0 frame:0
         TX packets:237674 errors:0 dropped:0 overruns:0 carrier:0
         collisions:0 txqueuelen:1000
         RX bytes:226756755 (216.2 Mb) TX bytes:38988863 (37.1 Mb)
         Base address:0xecc0 Memory:fe100000-fe120000

lo   Link encap:Local Loopback
         inet addr:127.0.0.1 Mask:255.0.0.0
         UP LOOPBACK RUNNING MTU:16436 Metric:1
         RX packets:8493 errors:0 dropped:0 overruns:0 frame:0
         TX packets:8493 errors:0 dropped:0 overruns:0 carrier:0
         collisions:0 txqueuelen:0
         RX bytes:799010 (780.2 Kb) TX bytes:799010 (780.2 Kb)

[2]
vzctl create 101 --ostemplate centos-4-i386-default --config vps.basic
/usr/sbin/vzctl set 101 --ipadd next.public.ip
Unable to apply network parameters: VPS is not running
WARNING: Settings were not saved and will be resetted to original values on next start (use --save flag)

[3]
/usr/sbin/vzctl set 101 --ipadd next.public.ip
Adding IP address(es): next.public.ip
RTNETLINK answers: Network is down
vps-net_add ERROR: Unable to add route /sbin/ip route add next.public.ip dev venet0 src my.public.ip

[4]
vzctl create 101 --ostemplate centos-4-i386-default --config vps.basic
vzctl set 101 --onboot yes --save
vzctl set 101 --ipadd next.public.ip --save

[5]
Starting VPS ...
VPS is mounted
Adding IP address(es): next.public.ip
RTNETLINK answers: Network is down
vps-net_add ERROR: Unable to add route /sbin/ip route add public.ip.195 dev venet0 src public.ip.215
VPS start failed
Stopping VPS ...
VPS was stopped
vzquota : (error) Quota off syscall for id 101: Device or resource busy
vzquota setlimit -f failed [3]
VPS is unmounted

[6]
  http://forum.openvz.org/index.php?t=msg&th=207&#msg_ 951

Subject: Re: assign public (or private) ip to new vps?
Posted by dim on Wed, 15 Feb 2006 09:06:11 GMT
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1) If you assign some address to new VPS, it should be unused by node address. So, it shouldn't be assigned as eth0 alias.
2) Possibly the reason of errors [2] and [5] is that venet0 interface is down.

Subject: Re: assign public (or private) ip to new vps?
Posted by snowdeal on Wed, 15 Feb 2006 13:31:54 GMT
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dim wrote on Wed, 15 February 2006 04:062) Possibly the reason of errors [2] and [5] is that
venet0 interface is down.

when i start openvz it looks like it's brought up. or at least openvz thinks it is:

```
# /etc/init.d/vz start
Starting OpenVZ:                              [  OK  ]
Bringing up interface venet0:                 [  OK  ]
Configuring interface venet0: net.ipv4.conf.venet0.send_redirects = 0
```

but it's not listed with ifconfig, which i presume means that it is, in fact, down?

i don't see anything informative in vzctl.log or the openvz users guide regarding this issue.

how can i determine why openvz thinks that it has brought up venet0 when it really hasn't?

Subject: Re: assign public (or private) ip to new vps?
Posted by dim on Wed, 15 Feb 2006 13:56:12 GMT
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```
Check:
1) ifconfig -a
2) lsmod | grep vznet
3) dmesg
```

If vznetdev module is not loaded, try:
```
 modprobe vznetdev
 ifconfig venet0 up
```

Subject: Re: assign public (or private) ip to new vps?
Posted by snowdeal on Wed, 15 Feb 2006 14:48:16 GMT
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strange. i decided to do a server reboot and now venet0 is up [1] . but still can't add the public ip
[2].

results from lsmod [3]. i could attach the results from dmesg, but i don't see anything related to
openvz.

[1]
venet0   Link encap:UNSPEC HWaddr 00-00-FF-00-00-00-00-00-00-00-00-00-00-00-00-00
        UP BROADCAST POINTOPOINT RUNNING NOARP MTU:1500 Metric:1
        RX packets:0 errors:0 dropped:0 overruns:0 frame:0
        TX packets:0 errors:0 dropped:0 overruns:0 carrier:0
        collisions:0 txqueuelen:0
        RX bytes:0 (0.0 b) TX bytes:0 (0.0 b)

[2]
#/usr/sbin/vzctl set 101 --ipadd my.new.ip
Unable to apply network parameters: VPS is not running

[3]
#/sbin/lsmod | grep vznet
vznetdev   13216 1
vzmon   44484 1 vznetdev
vzdev   2176 3 vzdquota,vznetdev,vzmon

Subject: Re: assign public (or private) ip to new vps?
Posted by dim on Wed, 15 Feb 2006 15:09:49 GMT
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use vzctl set VPSID --ipadd new.ip --save

Subject: Re: assign public (or private) ip to new vps?
Posted by snowdeal on Wed, 15 Feb 2006 15:35:24 GMT
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it works! thanks.

so you have to use --save with a public ip, but not a private?

regardless, i'm happy that it's working. thanks again, for the help.

Subject: Re: assign public (or private) ip to new vps?
Posted by dim on Wed, 15 Feb 2006 15:48:55 GMT
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If you use `vzctl set ` command without --save, it works only on running VPSs. That's why you
have error that VPS is not running. '--save' option says vzctl to save changes in VPS config. And
this should be the same for private IPs.

Subject: Re: assign public (or private) ip to new vps?
Posted by snowdeal on Wed, 15 Feb 2006 16:28:24 GMT

dim wrote on Wed, 15 February 2006 10:48If you use `vzctl set ` command without --save, it works only on running VPSs.

ah. i guess part of my confusion (although there were other confounding issues) came from the quick start guide [1] that says to add the ip without --save before you start the vps.

[1] http://openvz.org/documentation/guides/installation/vps-crea tion

Subject: Re: assign public (or private) ip to new vps?
Posted by dim on Wed, 15 Feb 2006 16:51:53 GMT

Thanks for your report!
Fixed.