Subject: networking on LFS based distro
Posted by liamr on Mon, 24 Apr 2006 20:28:14 GMT
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I'm trying to bring openvz up on an LFS based distro we use at work. I'm not sure which version of the LFS book we used to build it..

Anyhoo.. after some mucking around w/ the scripts in /etc/sysconfig/vz-scripts/dists/scripts, I've made my own set of lfs-add_ip.sh, lfs-del_ip.sh, lfs-set_hostname.sh, and they're sort of working.

The hostname seems to get set.. I get some networking, but I don't seem to have any working routes. Here's the output of "ifconfig -a"

```
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: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)

venet0    Link encap:UNSPEC  HWaddr 00-00-00-00-00-00-00-00-00-00-00-00-00-00-00-00
          inet addr:127.0.0.1  P-t-P:127.0.0.1  Bcast:0.0.0.0  Mask:255.255.255.255
          UP BROADCAST POINTOPOINT RUNNING NOARP  MTU:1500  Metric:1
          RX packets:9 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:3101 (3.0 Kb)  TX bytes:0 (0.0 b)

venet0:0  Link encap:UNSPEC  HWaddr 00-00-00-00-00-00-00-00-00-00-00-00-00-00-00-00
          inet addr:141.213.xxx.yyy  P-t-P:141.213.xxx.yyy  Bcast:0.0.0.0  Mask:255.255.255.255
          UP BROADCAST POINTOPOINT RUNNING NOARP  MTU:1500  Metric:1
```

The broadcast isn't set quite right on venet0:0, but I'm not convinced that's the problem. Route doesn't return anything:

```
Kernel IP routing table
Destination     Gateway         Genmask         Flags Metric Ref    Use Iface
```

If I try to add the route by hand, I get "SIOCADDRT: Network is unreachable". Any ideas on how to get this working?

thx
Liam

Subject: Re: networking on LFS based distro

Posted by dev on Tue, 25 Apr 2006 16:03:42 GMT
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check routing inside VPS with some other distr template VPS (e.g. CentOs).
try inside VPS:
ip r a default via 191.255.255.1 dev venet0
this addr is quite arbitrary to setup default GW.
Also check that you have ip_forward enabled in host system:
cat /proc/sys/net/ipv4/ip_forward

Subject: Re: networking on LFS based distro
Posted by liamr on Tue, 25 Apr 2006 16:18:52 GMT
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From the host system..

```
simlish-root#  cat /proc/sys/net/ipv4/ip_forward
1
```

So, ip forwarding should be enabled.

Inside the vps...

```
bash-2.05b# ip r a default via 191.255.255.1 dev venet0
RTNETLINK answers: Network is unreachable
```

I created an addition vps based on the centos template as you suggested.. networking works there.

Subject: Re: networking on LFS based distro
Posted by dev on Wed, 26 Apr 2006 06:12:53 GMT
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ok. the full routing setup in my VPS looks like:

```
ip link set dev lo up
ip addr add 127.0.0.1/8 brd 127.255.255.255 dev lo scope host label lo
ip route replace 127.0.0.0/8 dev lo
ip route replace 169.254.0.0/16 dev lo
ip link set dev venet0 up
ip addr add 127.0.0.1/32 brd 0.0.0.0 dev venet0 scope host label venet0
ip route replace 169.254.0.0/16 dev venet0
```

ifconfig venet0:0 192.168.3.250 netmask 255.255.255.255 broadcast 192.168.3.250
route add default gw 191.255.255.1 venet0:0
ip route add 191.255.255.0/24 dev venet0 scope host
ip route add default via 191.255.255.1

where 192.168.3.250 is my VPS IP.
191.255.255.1 is fake address.

can you try doing this in VPS, from scratch, after all routes/addresses flush?

Subject: Re: networking on LFS based distro
Posted by liamr on Wed, 26 Apr 2006 18:05:45 GMT
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I can do all of the "ip route" commands, but not not the "route add default gw". It returns "SIOCADDRT: Network is unreachable".

So, I tried stepping through the commands you provided.

I can do the "router add default gw" after I do..

ip route add 191.255.255.0/24 dev venet0 scope host

My routing table then looks like..

Kernel IP routing table
Destination Gateway Genmask Flags Metric Ref Use Iface
191.255.255.0 * 255.255.255.0 U 0 0 0 venet0
169.254.0.0 * 255.255.0.0 U 0 0 0 lo
127.0.0.0 * 255.0.0.0 U 0 0 0 lo
default 191.255.255.1 0.0.0.0 UG 0 0 0 venet0

and I can see the outside world

Subject: *SOLVED* networking on LFS based distro
Posted by liamr on Wed, 03 May 2006 19:35:24 GMT
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I had to make some changes to my /etc/sysconfig/vz-scripts/dists/scripts/lfs-add_ip.sh script. Our distro isn't set up to use /sbin/ip.. we use the traditional ifconfig and route.

So... I changed the contents of /etc/sysconfig/network-devices/route.venet0 to...

route add -net 191.255.255.0/24 dev venet0
route add default gw 191.255.255.1 dev venet0

and then altered out /etc/rc.d/init.d/network to source that file instead of trying it's normal method of setting up the routing.

Anyhoo... looks like it's working now.
