
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.
