Subject: How do I configure OpenVZ 7 hardware node for global DNS caching?
Posted by VinzC on Mon, 17 Jul 2017 09:20:10 GMT
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Background: I'm a little bit rusty with OpenVZ and everything in version 7 is overwhelmingly new to me.

So far I have only containers. I want to use the hardware node as my local DNS cache for *all* container types, host and bridged.

I have successfully configured dnsmasq to listen on both br0 and virbr0, as far as I saw, the interfaces for bridged and host-only containers, respectively. I could confirm the step on the hardware node with dig @interface_ip <public host name> and that works.

What doesn't work: name resolution in any container times out pinging the hardware node address gives no reply
From the hardware node:

```
# prlsrvctl net list
Network ID      Type      Bound To      Bridge        Slave interfaces
Bridged         bridged   enp2s0        br0
Host-Only       host-only               virbr0
```

With virbr0: 10.37.130.2/24 and br0:192.168.xx.5/28.

I've run prlctl set <my test container @ 192.168.xx.4> --nameserver 10.37.130.2 and even though it has no name resolution.

I *suppose* I need to add a rule to iptables but which one and where. I did add an INPUT rule but it doesn't work

Here's what I have with tcpdump, the rule I tried doesn't change anything:

```
 # tcpdump
 tcpdump: WARNING: venet0: no IPv4 address assigned
 tcpdump: verbose output suppressed, use -v or -vv for full protocol decode
 listening on venet0, link-type LINUX_SLL (Linux cooked), capture size 65535 bytes
 23:03:20.876113 IP 192.168.xx.4.53894 > myhostname.local.domain: 32621+ A? google.com.
(28)
 23:03:25.875974 IP 192.168.xx.4.53894 > myhostname.local.domain: 32621+ A? google.com.
(28)
 ^C
 2 packets captured
 2 packets received by filter
 0 packets dropped by kernel
```

This happens when I do a simple host google.com from a container that has the host command (Debian minimal containers don't).

From that container:

```
# ping 8.8.8.8
PING 8.8.8.8 (8.8.8.8) 56(84) bytes of data.
64 bytes from 8.8.8.8: icmp_seq=1 ttl=39 time=328 ms
64 bytes from 8.8.8.8: icmp_seq=2 ttl=39 time=19.8 ms
64 bytes from 8.8.8.8: icmp_seq=3 ttl=39 time=20.3 ms
64 bytes from 8.8.8.8: icmp_seq=4 ttl=39 time=20.3 ms
64 bytes from 8.8.8.8: icmp_seq=5 ttl=39 time=44.1 ms
64 bytes from 8.8.8.8: icmp_seq=6 ttl=39 time=20.4 ms
^C
--- 8.8.8.8 ping statistics ---
6 packets transmitted, 6 received, 0% packet loss, time 5002ms
rtt min/avg/max/mdev = 19.836/75.699/328.996/113.614 ms
```

I'm stuck. Thanks in advance for any hint/advice.