
Subject: Multiple IP subnets on one VE/HN. Routing problem?

Posted by [piplite](#) on Tue, 05 Oct 2010 05:22:07 GMT

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So here is a problem im facing first time as im moving some of my VE from one datacenters to another. Like i said, i never experienced anything like it with 2 locations. At this 3rd location i have a /26 (96.1.1.0/26) and a /24 (96.1.2.0/24) ip subnets.

HN is running on IP from /26 subnet and i can easily create VE with IPs from the same /26 subnet. Can access and ping them from any place. But /24 gives me a headache.

Some more information:

HN ifconfig:

```
eth0    Link encap:Ethernet  HWaddr 00:30:48:BF:F0:4A
        inet addr:96.1.1.2  Bcast:96.1.1.63  Mask:255.255.255.192
        inet6 addr: fe80::230:48ff:febf:f04a/64 Scope:Link
        UP BROADCAST RUNNING MULTICAST  MTU:1500  Metric:1
        RX packets:2083138 errors:0 dropped:0 overruns:0 frame:0
        TX packets:1175033 errors:0 dropped:0 overruns:0 carrier:0
        collisions:0 txqueuelen:100
        RX bytes:2510400640 (2.3 GiB)  TX bytes:270037165 (257.5 MiB)
        Memory:dc100000-dc120000
```

```
lo      Link encap:Local Loopback
        inet addr:127.0.0.1  Mask:255.0.0.0
        inet6 addr: ::1/128 Scope:Host
        UP LOOPBACK RUNNING  MTU:16436  Metric:1
        RX packets:66 errors:0 dropped:0 overruns:0 frame:0
        TX packets:66 errors:0 dropped:0 overruns:0 carrier:0
        collisions:0 txqueuelen:0
        RX bytes:4660 (4.5 KiB)  TX bytes:4660 (4.5 KiB)
```

```
venet0  Link encap:UNSPEC  HWaddr 00-00-00-00-00-00-00-00-00-00-00-00-00-00-00-00
        UP BROADCAST POINTOPOINT RUNNING NOARP  MTU:1500  Metric:1
        RX packets:2360 errors:0 dropped:0 overruns:0 frame:0
        TX packets:2056 errors:0 dropped:0 overruns:0 carrier:0
        collisions:0 txqueuelen:0
        RX bytes:373021 (364.2 KiB)  TX bytes:254909 (248.9 KiB)
```

HN route -n

Kernel IP routing table

Destination	Gateway	Genmask	Flags	Metric	Ref	Use	Iface
96.1.2.3	0.0.0.0	255.255.255.255	UH 0	0	0	0	venet0
96.1.2.201	0.0.0.0	255.255.255.255	UH 0	0	0	0	venet0
96.1.1.40	0.0.0.0	255.255.255.255	UH 0	0	0	0	venet0
96.1.1.0	0.0.0.0	255.255.255.192	U 0	0	0	0	eth0
169.254.0.0	0.0.0.0	255.255.0.0	U 0	0	0	0	eth0
0.0.0.0	96.1.1.1	0.0.0.0	UG 0	0	0	0	eth0

96.1.1.40 - pingable and easily accessed.

96.1.2.3 and 96.1.2.201 - can not ping outside and from the inside of container.

Route -n info from 96.1.2.3 (problem VE):

Kernel IP routing table

Destination	Gateway	Genmask	Flags	Metric	Ref	Use	Iface
192.0.2.1	0.0.0.0	255.255.255.255	UH	0	0	0	venet0
0.0.0.0	192.0.2.1	0.0.0.0	UG	0	0	0	venet0

What would you recommend as my colo provider keep on telling me to use gateway IP to route IPs.

Is this what i need? http://wiki.openvz.org/Source_based_routing

Thanks in advance.
