
Subject: 1 VPS IP, Multiple Host Interfaces
Posted by [cberic3](#) on Fri, 27 Apr 2007 13:03:30 GMT
[View Forum Message](#) <> [Reply to Message](#)

I have tried just about every ip route combination I can think of to make this work.

I have a host with 3 interfaces:

2 separate public interfaces on different networks; with both networks' gateways able to route to each other.

1 private network (192.168.100.0/24).

The VPS in question has an IP address on only 1 of the two hosts' public networks. The default gateway for either network should work, but for some reason, the VPS cannot send data to the public network that it doesn't have an IP address for. If I ifdown the interface on network in question on the host, the VPS can immediately send packets to the network in question.

The weird thing is, it magically starts working at some point in the day, but stops by the time I get to work in the morning. This happens if the routing table is left at the defaults when the VPS is created.

**A couple more stats:

iptables is off on the host and VE

the VE is being given a real routable IP address (no private).

-Eric

Subject: Re: 1 VPS IP, Multiple Host Interfaces
Posted by [Vasily Tarasov](#) on Sat, 28 Apr 2007 07:24:47 GMT
[View Forum Message](#) <> [Reply to Message](#)

Hello,

can you post the output of

ip a l

ip r l

commanfs in VE _and_ on HN.

Thanks,
Vasily.

Subject: Re: 1 VPS IP, Multiple Host Interfaces
Posted by [cberic3](#) on Sat, 28 Apr 2007 14:36:15 GMT
[View Forum Message](#) <> [Reply to Message](#)

INSIDE VE=

```
root@wiki:/root>ip a l
1: lo: <LOOPBACK,UP> mtu 16436 qdisc noqueue
  link/loopback 00:00:00:00:00:00 brd 00:00:00:00:00:00
  inet 127.0.0.1/8 brd 127.255.255.255 scope host lo
3: venet0: <BROADCAST,POINTOPOINT,NOARP,UP> mtu 1500 qdisc noqueue
  link/void
  inet 127.0.0.1/32 scope host venet0
  inet 198.175.18.60/32 brd 198.175.18.60 scope global venet0:0
root@wiki:/root>ip r l
192.0.2.0/24 dev venet0 scope host
169.254.0.0/16 dev venet0 scope link
default via 192.0.2.1 dev venet0 src 198.175.18.60
root@wiki:/root>
```

ON HW NODE=

```
root@openvz1:/root>ip a l
2: lo: <LOOPBACK,UP> mtu 16436 qdisc noqueue
  link/loopback 00:00:00:00:00:00 brd 00:00:00:00:00:00
  inet 127.0.0.1/8 brd 127.255.255.255 scope host lo
4: eth0: <BROADCAST,MULTICAST,UP> mtu 1500 qdisc pfifo_fast qlen 1000
  link/ether 00:0b:cd:4f:5c:15 brd ff:ff:ff:ff:ff:ff
  inet 198.175.18.64/24 brd 198.175.18.255 scope global eth0
6: eth1: <BROADCAST,MULTICAST,UP> mtu 1500 qdisc pfifo_fast qlen 1000
  link/ether 00:0b:cd:4f:5d:4a brd ff:ff:ff:ff:ff:ff
  inet 198.175.28.56/26 brd 198.175.28.255 scope global eth1
8: eth2: <BROADCAST,MULTICAST,UP> mtu 1500 qdisc pfifo_fast qlen 1000
  link/ether 00:0f:b5:46:9f:f3 brd ff:ff:ff:ff:ff:ff
  inet 192.168.100.64/24 brd 192.168.100.255 scope global eth2
1: venet0: <BROADCAST,POINTOPOINT,NOARP,UP> mtu 1500 qdisc noqueue
  link/void
root@openvz1:/root>ip r l
198.175.18.60 dev venet0 scope link
198.175.28.0/26 dev eth1 proto kernel scope link src 198.175.28.56
192.168.100.0/24 dev eth2 proto kernel scope link src 192.168.100.64
198.175.18.0/24 dev eth0 proto kernel scope link src 198.175.18.64
169.254.0.0/16 dev eth1 scope link
default via 198.175.18.1 dev eth0
root@openvz1:/root>
```

Subject: Re: 1 VPS IP, Multiple Host Interfaces
Posted by [cberic3](#) on Tue, 01 May 2007 14:23:59 GMT
[View Forum Message](#) <> [Reply to Message](#)

Any thoughts..?

I can't tell why it is intermittent. If I ifdown and ifup the 198.175.28.0 interface on the host, the VE works for a while sending traffic to that network, but will stop working in less than 24 hours (I

haven't tried to pin exactly when it happens).

-Eric

Subject: Re: 1 VPS IP, Multiple Host Interfaces
Posted by [Vasily Tarasov](#) on Wed, 02 May 2007 08:16:48 GMT
[View Forum Message](#) <> [Reply to Message](#)

Hmm... Can you give an access to the node in question?

Vasily

Subject: Re: 1 VPS IP, Multiple Host Interfaces
Posted by [Vasily Tarasov](#) on Wed, 02 May 2007 08:23:38 GMT
[View Forum Message](#) <> [Reply to Message](#)

One more question, can you be more precise, which nodes you can reach and which you can't:
post here precise commands:

ping <ip>

ping <ip>

...

Thanks,
Vasily.

Subject: Re: 1 VPS IP, Multiple Host Interfaces
Posted by [cberic3](#) on Wed, 02 May 2007 12:16:15 GMT
[View Forum Message](#) <> [Reply to Message](#)

ping everything on our networks (198.175.16.0/20) except 198.175.28.0/26 .

198.175.28.0/26 is the network that the host has an interface for / IP address on (198.175.28.56),
but the VPS doesn't have an IP for.

Its almost as if, because the host has an interface on that network and I don't give the VPS an IP
on that network, it won't route packets to that network; even though the public address the VPS
does have is a public network that routes to the needed subnet.

It works for some time after I ifdown and ifup the 198.175.28.0/26 interface on the host, but
sometime within 24 hours it stops working.

-Eric

Subject: Re: 1 VPS IP, Multiple Host Interfaces
Posted by [Vasily Tarasov](#) on Wed, 02 May 2007 12:40:40 GMT
[View Forum Message](#) <> [Reply to Message](#)

Well I can only advise you to try to use tcpdump to investigate the problem...
