
Subject: Using the same IP as VPS0 (HOST)
Posted by [dearaujo](#) on Mon, 27 Mar 2006 19:43:44 GMT
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After playing with Vservers, I know that I can assign a guest the same IP address as the host.
Can you do the same with an OpenVZ VPS?

If so, how do I go about it? I can't seem to get it to work (which makes me believe a VPS really
can't have the same IP address as the host)

Thanks for the help.

Subject: Re: Using the same IP as VPS0 (HOST)
Posted by [kir](#) on Mon, 27 Mar 2006 19:48:53 GMT
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In OpenVZ you can not really have a VPS with the same IP as the host system. There is a virtual
network device in each VPS and it should have an address assigned.

But it doesn't have to be a public IP address. So I believe the way to go for you is to assign a
private IP to a VPS and achieve your goal with NAT and redirection (i.e. redirect such and such
ports into a VPS).

Subject: Re: Using the same IP as VPS0 (HOST)
Posted by [dearaujo](#) on Mon, 27 Mar 2006 21:19:39 GMT
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Ok - I tried your suggestion, but I can't seem to get it to work. Here's my configuration:

Hardware Node public IP - w.x.y.z (keeping it to myself atm)
VPS private IP - 192.168.0.1

IP route commands - (trying to run a web server - port 80):

```
iptables -t nat -A PREROUTING -p tcp -d w.x.y.z --dport 80 -j DNAT --to-destination 192.168.0.1
```

```
iptables -t nat -A POSTROUTING -s 192.168.0.1 -j SNAT --to-source w.x.y.z
```

```
# iptables -nvL -t nat
```

```
Chain OUTPUT (policy ACCEPT 0 packets, 0 bytes)
```

```
pkts bytes target prot opt in out source destination
```

```
Chain POSTROUTING (policy ACCEPT 0 packets, 0 bytes)
```

```
pkts bytes target prot opt in out source destination
```

```
0 0 SNAT all -- * * 192.168.0.1 0.0.0.0/0 to:w.x.y.z
```

Chain PREROUTING (policy ACCEPT 0 packets, 0 bytes)

pkts	bytes	target	prot	opt	in	out	source	destination
0	0	DNAT	tcp	--	*	*	0.0.0.0/0	w.x.y.z tcp dpt:80 to:192.168.0.1

Also, my nameserver in my VPS matches my Hardware Nodes' nameserver.

I can ping w.x.y.z from inside my VPS. I can ping my VPS from my hardware node. However, I cannot ping anything other than my hardware node nor can I access the test webpage from outside the VPS.

Any suggestions?

Subject: Re: Using the same IP as VPS0 (HOST)

Posted by [kir](#) on Mon, 27 Mar 2006 21:34:57 GMT

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Hmm...I am actually not a big iptables expert; your setup looks OK with me from the first glance. Try finding some real iptables docs, or keep hammering your setup, use tcpdump etc.

The problem is in no way OpenVZ-specific; you can run httpd bound to a specific (private) IP on a normal Linux system and use DNAT/SNAT to do the same trick.

Subject: Re: Using the same IP as VPS0 (HOST)

Posted by [dev](#) on Tue, 28 Mar 2006 23:46:04 GMT

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which kernel do you use?

have you enabled contracks in host system if it is 2.6.8?

Subject: Re: Using the same IP as VPS0 (HOST)

Posted by [_akw_](#) on Sun, 09 Apr 2006 01:16:24 GMT

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I have exactly the same problem.

I have a hardware node with a static & public ip and a VPS node with the ip 192.168.1.101.

The VPS has the strange routing:

```
191.255.255.1 0.0.0.0 255.255.255.255 UH 0 0 0 venet0
0.0.0.0 191.255.255.1 0.0.0.0 UG 0 0 0 venet0
```

I can ping my public ip from the VPS and I can ping the 192.168.1.101 from the hardware node.

But I cannot reach anything else from the VPS.

I use folling rule on the hardware node:

```
iptables -t nat -A POSTROUTING -s 192.168.1.0/24 -j SNAT --to xyz
```

What is wrong?

akw

Subject: Re: Using the same IP as VPS0 (HOST)

Posted by [dev](#) on Sun, 09 Apr 2006 05:59:23 GMT

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then the same question for you:

which kernel do you use?

have you enabled conctracks in host system if it is 2.6.8?

I will ask someone to test it locally and create a small HOWTO then.

Subject: Re: Using the same IP as VPS0 (HOST)

Posted by [_akw_](#) on Sun, 09 Apr 2006 09:10:04 GMT

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I use kernel 2.6.16.1 patched with patch-026test007-combined.gz from openvz.org.

How do I activate connection tracking?

Does loading the kernel module ip_contrack suffice?

The host system is Debian Sarge/Etch. The VPS node is build via the template [debian-3.1-i386-minimal.tar.gz](#).

Ciao, akw

Subject: Re: Using the same IP as VPS0 (HOST)

Posted by [zoom](#) on Mon, 10 Apr 2006 03:32:14 GMT

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Check the FORWARD chain.. I have a similar setup (Host has 1 public IP address, VPSes use

192.168.0.0/24 subnet).. Try the following..

```
iptables -A FORWARD -s 0/0 -d 0/0 -p tcp -j ACCEPT
iptables -A FORWARD -s 0/0 -d 0/0 -p udp -j ACCEPT
```

Subject: Re: Using the same IP as VPS0 (HOST)
Posted by [dev](#) on Mon, 10 Apr 2006 04:26:43 GMT
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Zoom, maybe you can create a small HOWTO in HOWTO forum for this?
Will be very obliged

Subject: Re: Using the same IP as VPS0 (HOST)
Posted by [_akw_](#) on Mon, 10 Apr 2006 05:27:26 GMT
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Hi!

Thanks, zoom.
My forward chains was indeed too restrictive.

```
iptables -A FORWARD -i venet0 -o eth0 -s 192.168.1.0/24 -j ACCEPT
iptables -A FORWARD -i eth0 -o venet0 -d 192.168.1.0/24 -j ACCEPT
```

worked fine for me.

Ciao, akw

Subject: Re: Using the same IP as VPS0 (HOST)
Posted by [dev](#) on Mon, 10 Apr 2006 06:37:58 GMT
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can you create a HOWTO?

Subject: Re: Using the same IP as VPS0 (HOST)
Posted by [lkhost.com](#) on Thu, 13 Apr 2006 03:52:28 GMT
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Hello,

I have apf firewall in server, what s configuration to it?

Subject: Re: Using the same IP as VPS0 (HOST)
Posted by [dim](#) on Fri, 14 Apr 2006 08:42:03 GMT
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apf uses iptables as well. Just check that created by apf rules are not too restrictive.

Subject: Re: Using the same IP as VPS0 (HOST)
Posted by [dev](#) on Fri, 14 Apr 2006 16:53:59 GMT
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Ok, for reference: Dim updated SNAT/DNAT howto,
http://forum.openvz.org/index.php?t=tree&goto=13&#ms_g_13
