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Subject: Access to private and public IP in VPS  
Posted by [Frederik](#) on Tue, 13 Nov 2007 14:54:30 GMT  
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I have a hardware node with two network interfaces, one with a public IP address, one with a private IP address. Now I would like a VPS to also have a public IP address and a private IP address so both networks can be accessed directly. How should this be configured? Is it possible without using veth interfaces?

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Frederik

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Subject: Re: Access to private and public IP in VPS  
Posted by [efball](#) on Wed, 14 Nov 2007 01:00:11 GMT  
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On Tue, Nov 13, 2007 at 02:54:30PM +0000, Frederik wrote:  
> I have a hardware node with two network interfaces, one with a public IP  
> address, one with a private IP address. Now I would like a VPS to also  
> have a public IP address and a private IP address so both networks can be  
> accessed directly. How should this be configured? Is it possible without  
> using veth interfaces?

I have a hardware node with two network interfaces, one with a public IP address, one with a private IP address. My VEs just have a private IP address. The firewall on the hardware node can route things so that the VE can access both networks. I use shorewall to setup my firewall and it's pretty easy.

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E Frank Ball                      efball@efball.com

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Subject: Re: Access to private and public IP in VPS  
Posted by [Frederik](#) on Wed, 14 Nov 2007 08:18:36 GMT  
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On Tue, 13 Nov 2007 17:00:11 -0800, E Frank Ball III wrote:  
  
> On Tue, Nov 13, 2007 at 02:54:30PM +0000, Frederik wrote:  
> > I have a hardware node with two network interfaces, one with a public  
> > IP address, one with a private IP address. Now I would like a VPS to  
> > also have a public IP address and a private IP address so both

> > networks can be accessed directly. How should this be configured? Is  
> > it possible without using veth interfaces?  
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>  
> I have a hardware node with two network interfaces, one with a public IP  
> address, one with a private IP address. My VEs just have a private IP  
> address. The firewall on the hardware node can route things so that the  
> VE can access both networks. I use shorewall to setup my firewall and  
> it's pretty easy.

The problem when doing it like this, is that you probably have to do DNAT on your HN to access a VE from the outside, isn't it? That's something I want to avoid.

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Frederik

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Subject: Re: Access to private and public IP in VPS  
Posted by [Arjan Schrijver](#) on Wed, 14 Nov 2007 09:51:48 GMT  
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I actually did this a few days ago.  
Just add both the public and the private IP address to the VE using these commands (don't use veth interfaces):

```
HN# vzctl set 100 --ipadd [publicip] --save  
HN# vzctl set 100 --ipadd [privateip] --save
```

In the VE you should now have two ethernet devices: venet0 and venet0:1  
To make it actually work, you have to add routes inside the VE to the network that isn't available using the default route:

```
VE# route add -net [privatenetwork] netmask 255.255.255.0 gw [privateip]
```

So to explain the above command, you add the route to [privatenetwork] (i.e. 192.168.1.0) using its own IP address as the gateway. You can add this route to one of the startup scripts of your VE, so it gets added when the VE boots.

Remember, this only works when your Hardware Node knows both networks (in its routing table).

Regards,  
Arjan

Frederik wrote:

> I have a hardware node with two network interfaces, one with a public IP  
> address, one with a private IP address. Now I would like a VPS to also  
> have a public IP address and a private IP address so both networks can be  
> accessed directly. How should this be configured? Is it possible without  
> using veth interfaces?  
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Subject: Re: Access to private and public IP in VPS  
Posted by [Frederik](#) on Wed, 14 Nov 2007 14:01:15 GMT  
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On Wed, 14 Nov 2007 10:51:48 +0100, Arjan Schrijver wrote:

> I actually did this a few days ago.  
> Just add both the public and the private IP address to the VE using  
> these commands (don't use veth interfaces):  
>  
> HN# vzctl set 100 --ipadd [publicip] --save HN# vzctl set 100 --ipadd  
> [privateip] --save  
>  
> In the VE you should now have two ethernet devices: venet0 and venet0:1  
> To make it actually work, you have to add routes inside the VE to the  
> network that isn't available using the default route:  
>  
> VE# route add -net [privatenetwork] netmask 255.255.255.0 gw [privateip]

Thank you. The above route command was the missing link in my setup. I  
already tried using the private IP of the HN as the gw for that network,  
but that did not work. Using the VEs own private IP as the gw did indeed  
the trick.

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Frederik

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