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Subject: Vps with VPN

Posted by [silence](#) on Thu, 14 Nov 2013 15:40:22 GMT

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Hi,

i've installed a VPS and i'm using it with tun/tap and ppp. So i connect to it (like a VPN), but after that i don't have Internet at all. So i've my connection limited.

What can be?

Thanks.

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Subject: Re: Vps with VPN

Posted by [grep](#) on Fri, 15 Nov 2013 22:12:18 GMT

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You need to setup iptables rule to forward pakets.

try  
iptables -t nat -A POSTROUTING -j MASQUERADE

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Subject: Re: Vps with VPN

Posted by [silence](#) on Mon, 18 Nov 2013 12:57:11 GMT

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i've tried that, without success:

[root@vpn /]# iptables -t nat -A POSTROUTING -j MASQUERADE  
iptables: No chain/target/match by that name.

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Subject: Re: Vps with VPN

Posted by [grep](#) on Mon, 18 Nov 2013 18:58:32 GMT

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You must load the ipt\_MASQUERADE + iptable\_nat module on node. and if it still not work then include iptable\_nat in your vz.conf (/etc/vz/vz.conf) + ve (/etc/vz/num.conf) config.

To load module execute on node:  
modprobe ipt\_MASQUERADE  
modprobe iptable\_nat

Then check on vps:  
iptables -t nat -L Please report back if nat chain now exist or not.

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Subject: Re: Vps with VPN  
Posted by [silence](#) on Tue, 19 Nov 2013 12:31:01 GMT  
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still no internet :\

```
[root@vpn /]# iptables -t nat -A POSTROUTING -j MASQUERADE
```

```
[root@vpn /]# iptables -t nat -L
```

Chain PREROUTING (policy ACCEPT)

target	prot	opt	source	destination	
DNAT	all	--	anywhere	anywhere	to:IP

Chain POSTROUTING (policy ACCEPT)

target	prot	opt	source	destination	
SNAT	all	--	anywhere	anywhere	to:IP.40
SNAT	all	--	IP/24	anywhere	to:IP.40
SNAT	all	--	10.8.0.0/24	anywhere	to:127.0.0.1
SNAT	all	--	IP.0/24	anywhere	to:127.0.0.1
SNAT	all	--	anywhere	anywhere	to:IP of VPN
SNAT	all	--	anywhere	anywhere	to:123.123.123.123
SNAT	all	--	anywhere	anywhere	to:IP.40
SNAT	all	--	10.8.0.0/24	anywhere	to:123.123.123.12
SNAT	all	--	10.8.0.0/24	anywhere	to:IP.40
SNAT	all	--	10.8.0.0/24	anywhere	to:IP.40
SNAT	all	--	anywhere	anywhere	to:IP.40
MASQUERADE	all	--	anywhere	anywhere	

Chain OUTPUT (policy ACCEPT)

target	prot	opt	source	destination
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i've restarted container

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Subject: Re: Vps with VPN  
Posted by [grep](#) on Tue, 19 Nov 2013 13:13:07 GMT  
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I didnt tryed the rules, but there are many examples on the internet how you could do it.

First you need to flush the rules, iptables -t nat --flush.

Then try:

```
iptables -t nat -A POSTROUTING -o venet0 -s OPENVPNIP/24 (example: 10.1.1.0/24) -j MASQUERADE
```

Also you can try without masquerade. masquerade isnt full supported at openvz:

```
iptables -t nat -A POSTROUTING -o venet0 -j SNAT -to $YOUR_SERVER_IP
```

[www.google.com/search?q=openvpn+masquerade](http://www.google.com/search?q=openvpn+masquerade)

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Subject: Re: Vps with VPN

Posted by [silence](#) on Tue, 19 Nov 2013 13:24:49 GMT

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still not going....this is really weird!

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Subject: Re: Vps with VPN

Posted by [silence](#) on Tue, 19 Nov 2013 13:45:50 GMT

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Chain PREROUTING (policy ACCEPT)

target	prot	opt	source	destination
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Chain POSTROUTING (policy ACCEPT)

target	prot	opt	source	destination
MASQUERADE	all	--	IP.0/24	anywhere

Chain OUTPUT (policy ACCEPT)

target	prot	opt	source	destination
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Subject: Re: Vps with VPN

Posted by [grep](#) on Tue, 19 Nov 2013 22:05:02 GMT

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Hello,

Chain POSTROUTING (policy ACCEPT)

target	prot	opt	source	destination
MASQUERADE	all	--	[b]IP.0/24[/b]	anywhere

Is not correct.

You need to input your openvpn IP-Pool. As sayed, example: 10.1.1.0/24

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And you have so much different iptables-rules:

```
Chain POSTROUTING (policy ACCEPT)
target prot opt source destination
SNAT all -- anywhere anywhere to:IP.40
SNAT all -- IP/24 anywhere to:IP.40
SNAT all -- 10.8.0.0/24 anywhere to:127.0.0.1
SNAT all -- IP.0/24 anywhere to:127.0.0.1
SNAT all -- anywhere anywhere to:IP of VPN
SNAT all -- anywhere anywhere to:123.123.123.123
SNAT all -- anywhere anywhere to:IP.40
SNAT all -- 10.8.0.0/24 anywhere to:123.123.123.12
SNAT all -- 10.8.0.0/24 anywhere to:IP.40
SNAT all -- 10.8.0.0/24 anywhere to:IP.40
SNAT all -- anywhere anywhere to:IP.40
MASQUERADE all -- anywhere anywhere flush it first.
iptables -t nat --flush; iptables --flush
```

Please connect to your openvpn server, check which IP address you get from the server (10.x.x.x) and then add the correct rule.

If you get 10.8.0.1 then your rule would be:

```
iptables -t nat -A POSTROUTING -o venet0 -s 10.8.0.0/24 -j MASQUERADE
```

With /24 you add 10.8.0.0-255 to iptables. So dont add only the private ip which you get, add the whole subnet.

I found different rules over google. Its long time ago when i setted up openvpn so i dont remember the correct rule which worked for me. But one of this 3 \*must\* work for you:

```
iptables -t nat -A POSTROUTING -o venet0 -s 10.8.0.0/24 (REPLACE WITH YOUR OPENVPN SUBNET) -j MASQUERADE
```

```
iptables -t nat -A POSTROUTING -o venet0 -j SNAT --to $YOUR_SERVER_IP
```

(YOUR\_SERVER\_IP is as example 212.1.1.43. dont use your openvpn private ip here. its the server public ip)

```
iptables -t nat -A POSTROUTING -s 10.8.0.0/24 (REPLACE WITH YOUR OPENVPN SUBNET) -j SNAT --to-source $YOUR_SERVER_IP
```

(YOUR\_SERVER\_IP is as example 212.1.1.43. dont use your openvpn private ip here. its the server public ip)

If none of these works, then i only can recommend you to google "openvpn openvz iptables".

There are many threads about this on the web and there are a lot of different iptables rules out there. But the 3 rules which i have listed should work for you.

If this too not work on your server then i could offer you to send me your openvpn connect files, your openvz ssh login and i fix it. But please try first these rules.

And when you add a new rule and it dont work, then flush the iptables before you try the next rule (again: iptables -t nat --flush; iptables --flush!!)

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Subject: Re: Vps with VPN

Posted by [silence](#) on Wed, 20 Nov 2013 10:11:45 GMT

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Hi grep,

Thanks for all your answers.

I'm not using openvpn, i'm using another computer with a vpn connection, so i add the IP to the VPS where i've the vpn:

```
[root@vpn network-scripts]# iptables -t nat -L
```

```
Chain PREROUTING (policy ACCEPT)
```

```
target    prot opt source                destination
```

```
Chain POSTROUTING (policy ACCEPT)
```

```
target    prot opt source                destination
```

```
MASQUERADE all  -- IP.rev.vodafone.pt/24 anywhere
```

```
Chain OUTPUT (policy ACCEPT)
```

```
target    prot opt source                destination
```

It's not this?

Thanks.

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Subject: Re: Vps with VPN

Posted by [grep](#) on Wed, 20 Nov 2013 12:43:18 GMT

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Hello,

dont add your internet IP to the rules. I was thinking you use openvpn.

Please make:

```
iptables -t nat -A POSTROUTING -j SNAT --to-source SERVERIP
```

Serverip is the IP of your server, not of your internet. Insert the IP of your openvz container.

---

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Subject: Re: Vps with VPN

Posted by [silence](#) on Wed, 20 Nov 2013 12:48:13 GMT

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grep wrote on Wed, 20 November 2013 12:43Hello,

dont add your internet IP to the rules. I was thinking you use openvpn.

Please make:

```
iptables -t nat -A POSTROUTING -j SNAT --to-source SERVERIP
```

Serverip is the IP of your server, not of your internet. Insert the IP of your openvz container.

Chain PREROUTING (policy ACCEPT)

```
target    prot opt source                destination
```

Chain POSTROUTING (policy ACCEPT)

```
target    prot opt source                destination
SNAT      all  -- anywhere             anywhere       to:IP_of_VPN
```

Chain OUTPUT (policy ACCEPT)

```
target    prot opt source                destination
```

still not going

---

Subject: Re: Vps with VPN

Posted by [grep](#) on Wed, 20 Nov 2013 13:16:11 GMT

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What is the value of vpn\_ip?

Mask the last numbers if you dont want to make pub.

Also check your firewall rules (iptables --list)

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Subject: Re: Vps with VPN

Posted by [silence](#) on Wed, 20 Nov 2013 13:19:14 GMT

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hi,

IP is 94.46.\*.\* (IP of container)

```
iptables --list
```

Chain INPUT (policy ACCEPT)

```
target    prot opt source                destination
```

Chain FORWARD (policy ACCEPT)

```
target    prot opt source                destination
```

Chain OUTPUT (policy ACCEPT)

target    prot opt source                    destination

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Subject: Re: Vps with VPN

Posted by [grep](#) on Wed, 20 Nov 2013 13:27:19 GMT

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Maybe just domain resolving dont work?  
Can you ping 8.8.8.8 with vpn connection?

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Subject: Re: Vps with VPN

Posted by [silence](#) on Wed, 20 Nov 2013 13:30:50 GMT

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In container:

```
ping 8.8.8.8
PING 8.8.8.8 (8.8.8. 56(84) bytes of data.
64 bytes from 8.8.8.8: icmp_seq=1 ttl=49 time=35.6 ms
64 bytes from 8.8.8.8: icmp_seq=2 ttl=49 time=35.5 ms
64 bytes from 8.8.8.8: icmp_seq=3 ttl=49 time=35.6 ms
64 bytes from 8.8.8.8: icmp_seq=4 ttl=49 time=36.0 ms
64 bytes from 8.8.8.8: icmp_seq=5 ttl=49 time=35.6 ms
```

In computer with VPN connection:

```
request timed out
request timed out
```

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