Subject: *SOLVED* OpenVPN in VPS : Masquerade
Posted by laurent on Wed, 08 Nov 2006 07:03:27 GMT
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Hi
I installed an OpenVPN server in a VPS, it work well.
i can, from an Openvpn client , access to the VPS trought a VPN connection.

an ifconfig in the VPS :
tun0 Lien encap:UNSPEC HWaddr 00-00-00-00-00-00-00-00-00-00-00-00-00-00-00-00
inet adr:10.34.34.1 P-t-P:10.34.34.2 Masque:255.255.255.255
UP POINTOPOINT RUNNING NOARP MULTICAST MTU:1500 Metric:1
RX packets:10 errors:0 dropped:0 overruns:0 frame:0
TX packets:0 errors:0 dropped:0 overruns:0 carrier:0
collisions:0 lg file transmission:10
RX bytes:600 (600.0 b) TX bytes:0 (0.0 b)

venet0 Lien encap:UNSPEC HWaddr 00-00-00-00-00-00-00-00-00-00-00-00-00-00-00-00
inet adr:127.0.0.1 P-t-P:127.0.0.1 Bcast:0.0.0.0 Masque:255.255.255.255
UP BROADCAST POINTOPOINT RUNNING NOARP MTU:1500 Metric:1
RX packets:3105 errors:0 dropped:0 overruns:0 frame:0
TX packets:3029 errors:0 dropped:10 overruns:0 carrier:0
collisions:0 lg file transmission:0
RX bytes:482798 (471.4 KiB) TX bytes:294943 (288.0 KiB)

venet0:0 Lien encap:UNSPEC HWaddr 00-00-00-00-00-00-00-00-00-00-00-00-00-00-00-00
inet adr:192.168.7.145 P-t-P:192.168.7.145 Bcast:192.168.7.145
Masque:255.255.255.255
UP BROADCAST POINTOPOINT RUNNING NOARP MTU:1500 Metric:1

I m trying to connect from the openvpn client to the venet0 network 192.168.7.0/24 (of the VPS) and it doesn't work. i supposed that i have to masquerade traffic inside the VPS, but ...

i trying to use ine the VPS
iptables -t nat -A POSTROUTING -s 10.34.34.0/24 -j MASQUERADE
and i have :
iptables: No chain/target/match by that name

I read a lot of messages in the openvz forum , but there is no solution detailed!

some other information :

in the Host

lsmod | grep iptable
iptable_mangle 4544 8
iptable_nat 27540 10

ipt_SAME,ipt_REDIRECT,ipt_NETMAP,ipt_MASQUERADE,ip_nat_irc,i p_nat_tftp,ip_nat_ftp
ip_conntrack 37420 15
ipt_SAME,ipt_REDIRECT,ipt_NETMAP,ipt_MASQUERADE,ipt_helper,i
pt_conntrack,ip_nat_irc,ip_nat_tftp,ip_nat_ftp,ip_conntrack_
irc,ip_conntrack_tftp,ip_conntrack_ftp,iptable_nat,ipt_state
iptable_filter 4384 8
ip_tables 22064 26 iptable_mangle,ipt_ttl,ipt_TOS,ipt_tos,ipt_TCPMSS,ipt_tcpmss
,ipt_SAME,ipt_REDIRECT,ipt_recent,ipt_NETMAP,ipt_multiport,i
pt_MASQUERADE,ipt_MARK,ipt_mark,ipt_mac,ipt_LOG,ipt_limit,ip
t_length,ipt_iprange,ipt_helper,ipt_conntrack,ipt_CLASSIFY,i
ptable_nat,ipt_REJECT,ipt_state,iptable_filter

cat /etc/sysconfig/vz | grep iptab
IPTABLES="ipt_REJECT ipt_tos ipt_limit ipt_multiport iptable_filter iptable_mangle ipt_TCPMSS ipt_tcpmss ipt_ttl ipt_length iptable_nat ipt_REDIRECT ipt_conntrack ip_conntrack"

uname -r
2.6.8-022stab077.1-smp

in the VPS:
iptables -t nat -nL
Chain PREROUTING (policy ACCEPT)
target prot opt source destination

Chain POSTROUTING (policy ACCEPT)
target prot opt source destination

Chain OUTPUT (policy ACCEPT)
target prot opt source destination

thanks in advance for any solution

Subject: Re: OpenVPN in VPS : Masquerade
Posted by rickb on Fri, 08 Jun 2007 16:14:40 GMT
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Hi. I have the same question as this poster. Is masquerade available in the VE context, ie:

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

Subject: Re: OpenVPN in VPS : Masquerade
Posted by curx on Mon, 11 Jun 2007 05:15:29 GMT

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Hi,

iptables "MASQUERADE" isn't virtualized,
only listed iptables modules can be used in VE context:
(see man-page of vzctl)

iptable_filter,iptable_mangle, ipt_limit, ipt_multiport,
ipt_tos, ipt_TOS,ipt_REJECT, ipt_TCPMSS, ipt_tcpmss,
ipt_ttl, ipt_LOG, ipt_length, ip_conntrack, ip_conntrack_ftp,
ip_conntrack_irc, ipt_conntrack, ipt_state, ipt_helper,
iptable_nat, ip_nat_ftp, ip_nat_irc, ipt_REDIRECT xt_mac.

Subject: Re: OpenVPN in VPS : Masquerade
Posted by Vasily Tarasov on Thu, 14 Jun 2007 09:41:09 GMT
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Thorsten is right, Masquerading is not virtualized at the moment. You can fill an enhancement bug report at bugzilla.openvz.org and some time we probably will virtualize this module.

Thanks,
Vasily.

Subject: Re: *SOLVED* OpenVPN in VPS : Masquerade
Posted by tomfra on Tue, 23 Oct 2007 23:52:44 GMT
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Is there some workaround for this problem? When I run:

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

on the VPS where I've just installed OpenVPN, I get this error:

iptables: Unknown error 18446744073709551615

I suppose it's related to the described problem? Everything else in my OpenVPN setup works.

Tomas

Subject: Re:OpenVPN in VPS : Masquerade

Posted by cosminnci on Mon, 28 Sep 2009 18:54:24 GMT
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Hello,

I have the same problem

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

how to rewrite this rule?

so far i read
"You can configure many to one NAT to an IP alias, using the POSTROUTING and not the MASQUERADE statement."

Subject: Re: *SOLVED* OpenVPN in VPS : Masquerade
Posted by cosminnci on Mon, 28 Sep 2009 20:18:49 GMT
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iptables -t nat -A PREROUTING -i tun0 -j DNAT --to-destination container.ip

this worked for me

Subject: Re: *SOLVED* OpenVPN in VPS : Masquerade
Posted by napo93290 on Thu, 19 Nov 2009 20:02:07 GMT
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Hi,

Quote:
iptables -t nat -A PREROUTING -i tun0 -j DNAT --to-destination container.ip

With "to-destination container.ip" replaced by the IP of venet0 ??

I have this :

20:57 root@SRV-DEB-VPS /boot# iptables -t nat -A PREROUTING -i tun0 -j DNAT --95.211.xx.xx

iptables v1.4.2: Unknown arg `(null)'
Try `iptables -h' or 'iptables --help' for more information.
zsh: exit 2 iptables -t nat -A PREROUTING -i tun0 -j DNAT --95.211.xx.xx

Subject: Re: *SOLVED* OpenVPN in VPS : Masquerade
Posted by Rene on Tue, 22 Nov 2011 06:56:37 GMT
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Another good question unanswered

Subject: Re: *SOLVED* OpenVPN in VPS : Masquerade
Posted by x100 on Sat, 18 Feb 2012 07:02:34 GMT
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Just make the rule complete:

iptables -t nat -A PREROUTING -i tun0 -j DNAT --to-destination <venet's IP>

Subject: Re: *SOLVED* OpenVPN in VPS : Masquerade
Posted by x100 on Mon, 20 Feb 2012 18:46:54 GMT
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If anybody still interested. Checked the above rule and it did not actually let me access external resources being connected to the VPN server. I got connected to the server being able to ping external addresses this way, but there was no route to them through the VPN tunnel (when tracerouting). To be fully able to reach the external net through the VPN server I use the following:

iptables -t nat -A POSTROUTING -j SNAT --to-source <venet's IP>

And don't forget enabling IP forwarding in /etc/sysctl.conf:

net.ipv4.ip_forward = 1