
Subject: Re: NATed GRE packets does not reach VETH (NAT,GRE,VETH)

Posted by [a1bert](#) on Fri, 31 Oct 2008 14:36:39 GMT

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gre packet arrives via tun102 iface, should be NATed and then go out via eth0:

Linux routername 2.6.24-6-fza-686 #1 SMP Mon May 19 06:30:48 UTC 2008 i686 GNU/Linux

ip ro:

```
10.255.255.32 dev tun102 proto kernel scope link src 10.255.255.31
x.x.202.20 dev lo scope link
y.y.227.192/27 dev eth0 proto kernel scope link src y.y.227.193
10.24.127.0/24 dev eth0 proto kernel scope link src 10.24.127.8
10.1.0.0/16 via 10.255.255.32 dev tun102
default via 10.24.127.1 dev eth0
```

```
# Generated by iptables-save v1.3.6 on Fri Oct 31 15:26:39 2008
```

```
*mangle
```

```
:PREROUTING ACCEPT [1537:90221]
```

```
:INPUT ACCEPT [328:27453]
```

```
:FORWARD ACCEPT [1199:62254]
```

```
:OUTPUT ACCEPT [233:35478]
```

```
:POSTROUTING ACCEPT [1432:97732]
```

```
COMMIT
```

```
# Completed on Fri Oct 31 15:26:39 2008
```

```
# Generated by iptables-save v1.3.6 on Fri Oct 31 15:26:39 2008
```

```
*filter
```

```
:INPUT ACCEPT [328:27453]
```

```
:FORWARD ACCEPT [1199:62254]
```

```
:OUTPUT ACCEPT [235:35742]
```

```
COMMIT
```

```
# Completed on Fri Oct 31 15:26:39 2008
```

```
# Generated by iptables-save v1.3.6 on Fri Oct 31 15:26:39 2008
```

```
*nat
```

```
:PREROUTING ACCEPT [23:1847]
```

```
:POSTROUTING ACCEPT [3:230]
```

```
:OUTPUT ACCEPT [2:175]
```

```
[2:175] -A POSTROUTING -s 10.24.127.8 -o eth0 -j RETURN
```

```
[8:456] -A POSTROUTING -s 10.0.0.0/255.0.0.0 -o eth0 -p gre -j SNAT --to-source x.x.202.20
```

```
[2:108] -A POSTROUTING -s 10.0.0.0/255.0.0.0 -o eth0 -j SNAT --to-source x.x.202.20
```

```
COMMIT
```

```
tcpdump -i tun102 proto gre -n
```

```
tcpdump: WARNING: arptype 65534 not supported by libpcap - falling back to cooked socket
```

```
tcpdump: verbose output suppressed, use -v or -vv for full protocol decode  
listening on tun102, link-type LINUX_SLL (Linux cooked), capture size 96 bytes
```

```
15:26:12.752991 IP 10.1.60.35 > 1.1.1.1: GREv1, call 5159, seq 0,length 37: LCP, Conf-Request (0x01), id 0, length 23  
15:26:14.743937 IP 10.1.60.35 > 1.1.1.1: GREv1, call 5159, seq 1,length 37: LCP, Conf-Request (0x01), id 1, length 23  
15:26:17.742849 IP 10.1.60.35 > 1.1.1.1: GREv1, call 5159, seq 2,length 37: LCP, Conf-Request (0x01), id 2, length 23  
15:26:21.741342 IP 10.1.60.35 > 1.1.1.1: GREv1, call 5159, seq 3,length 37: LCP, Conf-Request (0x01), id 3, length 23  
15:26:25.739857 IP 10.1.60.35 > 1.1.1.1: GREv1, call 5159, seq 4,length 37: LCP, Conf-Request (0x01), id 4, length 23
```

```
tcpdump -i eth0 proto gre -n
```

```
(note, only GRE from remote end, no NATted gre packets)
```

```
tcpdump: verbose output suppressed, use -v or -vv for full protocol decode  
listening on eth0, link-type EN10MB (Ethernet), capture size 96 bytes
```

```
15:26:12.735405 IP1.1.1.1 > x.x.202.20: GREv1, call 32768, seq 1, ack 4294967295, length 35: LCP, Conf-Request (0x01), id 0, length 17  
15:26:15.673657 IP1.1.1.1 > x.x.202.20: GREv1, call 32768, seq 2, length 31: LCP, Conf-Request (0x01), id 1, length 17  
15:26:18.672094 IP1.1.1.1 > x.x.202.20: GREv1, call 32768, seq 3, length 31: LCP, Conf-Request (0x01), id 2, length 17  
15:26:21.672513 IP1.1.1.1 > x.x.202.20: GREv1, call 32768, seq 4, length 31: LCP, Conf-Request (0x01), id 3, length 17  
15:26:24.670767 IP1.1.1.1 > x.x.202.20: GREv1, call 32768, seq 5, length 31: LCP, Conf-Request (0x01), id 4, length 17  
15:26:27.669076 IP1.1.1.1 > x.x.202.20: GREv1, call 32768, seq 6, length 31: LCP, Conf-Request (0x01), id 5, length 17
```