

Re: question on tunnels (VPN)

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From: Julian Elischer (julian_at_elischer.org)

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To: miha@ghuug.org

Mikhail P. wrote:

>Dear users,

>

>I have been experimenting with simple gif tunnels (no IPsec) in local network
>(192.168.0.0/24). I have used the following scenario between two hosts (both
>running FreeBSD-5.2.1):

>

>HOST_A [192.168.0.1]:

>ifconfig gif0 create

>ifconfig gif0 tunnel 192.168.0.1 192.168.0.2

>ifconfig gif0 10.0.0.1 10.0.0.2 netmask 255.255.255.255

>

>and on -

>

>HOST_B [192.168.0.2]:

>ifconfig gif0 create

>ifconfig gif0 tunnel 192.168.0.2 192.168.0.1

>ifconfig gif0 10.0.0.2 10.0.0.1 netmask 255.255.255.255

>

>The above works well for me, and I can send traffic on 10.0.0.1 and 10.0.0.2.

>

>The next thing I wanted to implement is to create similar tunnel from our
>local router (which is FreeBSD too) to remote server, however there is small
>problem which stops me - router has no public IP, and it sees internet
>through DSL router, so basically that router is NAT'ed behind DSL router.
>As far as I understand, it appears to be that I won't be able to create such a
>simple tunnel, unless my router gets public IP address.

>

>What I tried next was MPD pptp link (which is known to work behind NAT, unlike
>above example), but something (ISP? DSL router?) cuts GRE packets on their
>way, so MPD can't establish LCP connection with remote host.

>

>I'm now in loss as to what to try next - could someone please advise what
>other techniques will work in my scenario (where I want to connect machine
>which is behind NAT and no GRE packets will go through)?

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>

I use MPD using the "UDP" transport.

in other words packets get sent as udp packets.

I then set up IPSEC to encrypt the UDP packets..

when I had a NAT in the way I did further encapsulate the GRE packets in UDP again :-)

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