

## Re: question on tunnels (VPN)

**Source:** <http://unix.derkeiler.com/Mailing-Lists/FreeBSD/net/2004-09/0264.html>

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**From:** Paul Schenkeveld (*fb-net\_at\_psconsult.nl*)

**Date:** 09/23/04

Date: Thu, 23 Sep 2004 14:45:14 +0200

To: net@freebsd.org

On Wed, Sep 22, 2004 at 04:17:59PM +0000, 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)?*

Have a look at /usr/ports/net/vtun. It allows you to create tunnels

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over virtually any transport you can find including TCP and UDP (but also raw IP, serial lines, ssh tunnels ...). Tunnel endpoints are tunN devices. It has built in encryption (openssl) en compression (lzo, zlib and even a traffic shaper.

> *regards,*  
> *M.*

HTH

Paul Schenkeveld, Consultant  
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