

## Notes

Thursday, 14 February 2008

Last Updated Monday, 18 August 2008

Testing with netperf:

```
-----  
cd /usr/ports/benchmarks/netperf ; make install  
(server listening on 12865)  
on server: netserver  
on client: netperf -f k -H
```

Compile kernel with -B options to see compile errors

```
-----  
make -j4 -B buildkernel KERNCONF=SERVER
```

Debug a PPPoE Server - find PPPoE Servers

-----  
In order to debug a PPPoE server, configure a PPPoE client on a LAN computer (with FreeBSD), and then run tcpdump on the same LAN computer.

Add the following to /etc/ppp/ppp.conf file:

```
# ----- ppp.conf file -----  
default:  
  set log Phase tun command # you can add more detailed logging if you wish  
  set ifaddr 10.0.0.1/0 10.0.0.2/0  
  
pppoeserver:  
  set device PPPoE:em0 # replace xl1 with your Ethernet device  
  set authname YOURLOGINNAME  
  set authkey YOURPASSWORD  
  set dial  
  set login  
  add default HISADDR  
# ----- end of ppp.conf -----
```

Modify it using your pppoe username/password and network card.

Run tcpdump:

```
tcpdump -i em0 -e | grep PADO
```

Dial to PPPoE Server:

```
ppp -ddial pppoeserver
```

Configure Windows Vista to work with SAMBA server on FreeBSD

-----  
To be able to access Samba shares on a FreeBSD (or Linux) server you must modify the following value in Windows Vista (using regedit from command prompt):

```
HKEY_LOCAL_MACHINE\System\CurrentControlSet\Control\Lsa\LMCompatibilityLevel
```

By default this value is 0x3 which means authentication NTLMv2 only. This feature is not supported by Samba yet, to fix it change the value to 0x1 (NTLMv2 if available, if not use an older version).

After that you must reboot windows station.

Print Screen on X11

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```
import -window root printscreen.jpg
```

Setup Windows desktop to see your domain name configured on  
FreeBSD server, before DNS will propagate to the Internet

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Edit c:\Windows\system32\Drivers\etc\hosts file and add the following:

```
127.0.0.1    localhost
80.x.y.z    www.example.com
```

Then you will be able to see [www.example.com](http://www.example.com) as if DNS was working.