

freebsd-questions: Re: connecting a FreeBSD-4.10 to Internet using DSL with static ip address

Re: connecting a FreeBSD-4.10 to Internet using DSL with static ip address

Source: <http://unix.derkeiler.com/Mailing-Lists/FreeBSD/questions/2005-03/1464.html>

From: doug (doug_at_fledge.watson.org)

Date: 03/13/05

Date: Sun, 13 Mar 2005 05:59:28 +0000 (GMT)

To: Cheezy Vines <chisoy@gmail.com>

If your ISP does not use PPPoE it is really quite simple. I included my laptop rc.conf just to show it plays no part:

```
hostname="mneme.boltsys.com"
moused_enable="YES"
sshd_enable="YES"
usbd_enable="YES"
```

```
linux_enable="YES"
nfs_client_enable="YES"
nfs_server_enable="YES"
nfs_reserved_port_only="YES"
rpcbind_enable="YES"
```

I take this system around to a site using cable, dsl, my office where I connect via a wireless network and, under duress dial-up. For that reason I boot up and then connect. Every where except for the office that is as simple as:

```
dhclient ep0
```

as that the antique NIC I use. Both the cable modem and the DSL modem I connect to provide DHCP on the inside. On the outside, the cable modem seems to get a fixed IP from its network. My DSL connection uses 192.168.0 addresses but all you have to do is connect to the modem as a gateway. My wireless setup:

```
ifconfig wi0 wep wepkey 0x...
dhclient wi0
```

If your modem has a fixed IP adding

```
defaultrouter="xxx.xxx.xxx.xxx"
ifconfig_nic0="inet xxx.xxx.xxx.xxx netmask 255.255.255.0"
or
ifconfig_nic0="DHCP"
```

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to rc.conf should be all you need.

You can of course do this manually by:

```
ifconfig nic0 add inet xxx.xxx.xxx.xxx netmask 255.255.255.0  
route add default xxx.xxx.xxx.xxx
```

I would then first try to ping an IP address and then a host name. If your ISPs DNS really is bad, you can change the hostname to localhost to avoid all the dns timeouts. If it all works, netstat -nr will have a line something like:

```
Internet:  
Destination Gateway Flags Refs Use Netif Expire  
default 192.168.23.3 UGS 0 12052 wi0
```

I hope this helps

On Sat, 12 Mar 2005, Cheezy Vines wrote:

```
> Hello everyone!  
>  
> I have a FreeBSD-4.10 machine and a newly connected DSL with static ip  
> address. The DSL connection setup uses an ADSL modem (SMC7901BRA)  
> which has 1 connection to my phone line and 1 connection to my LAN  
> card using UTP cable. In Windows XP setup, the process of setting up  
> Internet is just as easy as configuring the TCP/IP prpoerties with the  
> static ip address given to me and other details such as gateway, dns,  
> subnet mask etc.  
>  
> My machine has a dual-boot WinXP and FreeBSD-4.10. As I've said above,  
> I can easily connect to the Internet using the WinXP. But, I want to  
> try FreeBSD to connect to the Internet, but it doesn't work.  
>  
> Here's what I did to test if I can connect to Internet via DSL using FreeBSD:  
> 1. Reboot or boot to FreeBSD-4.10  
> 2. Login as root  
> 3. /stand/sysinstall to assign IP address, gateway, and dns  
> 4. Reboot machine to make sure new IP settings take effect  
> 5. Do an ifconfig and see that the IP settings are correct  
> 6. I can ping my own IP address (static IP address of the DSL assigned  
> by my ISP)  
> 7. When I try to ping the ISP's given gateway, I receive "ping to:  
> Host is down".  
> 8. Seeing the modem status, the "LAN" and "SYNC" signals are up but  
> the "DATA" is off.  
>  
> I have tried searching the net with FreeBSD+DSL but all I can read is  
> about "PPPoE" which requires a "username" and "password" which I don't  
> have. My DSL account is an "always on" account with a static IP  
> address and I guess it doesnt have a username/password for connection  
> to the ISP.
```

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>
> *Does FreeBSD need to detect my DSL modem if it is connected to the NIC*
> *using a UTP cable connected to the modem? Here's my setup:*
>
> *[DSL modem]<----->[DSL Provider] (provides static IP address)*
> /
> /
> /
> *[FreeBSD's LAN card]*
>
> *Does anybody has an experience connecting FreeBSD to a DSL with a*
> *static IP address and has similar setup above?*
>
> *Actually my real purpose is to use FreeBSD as LAN gateway using the*
> *DSL connection. But I wanna try first connecting the FreeBSD machine*
> *as a stand-alone PC which uses the simple setup above. If this setup*
> *works, the gateway setup will surely work too.*
>
> *Thank you very much!*
>
> _____
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