

RH9, NAT and routing

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To: redhat-list@redhat.com

I'm trying to set up my local network so that my RH9 box acts as a router between my LAN and the Internet via a DSL connection. The DSL connection is solid and working, and I have no problems accessing the Web. I think that I set the operation up correctly, but it's not working, hence my yelp for help...

The DSL modem is accessed via eth0, the LAN via eth1. Traffic on either side works well, and I have DNS working such that I can access DNS values for sites not in my local DNS configuration throughout my LAN. The exterior network values are correct for the DSL connection and the network connection values for the ISP.

I used the RHCE study manual as a guide, and did the following:

In IP tables, created a forwarding rule, as it appears in this excerpt from the file:

```
*nat
-A POSTROUTING -s 192.168.1.0/24 -o eth0 -j MASQUERADE
```

In /etc/sysctl.conf, I turned on forwarding:
net.ipv4.ip_forward = 1

After reboot, the /proc/sys/net/ipv4/ip_forward file has a value of 1.

I set up ftp as recommended in the manual:

```
/sbin/modprobe -a ip_conntrack_ftp ip_nat_ftp
```

At this point, I can get any DNS query via nslookup that I want, and get a return value. However, I cannot FTP out, I can't get out via web browser, and ping returns "Request timed out." Traffic within the LAN is fine, and traffic up to the Internet is fine.

So, I'm thinking that I need some kind of either forwarding or routing rule to be configured for one of the ethernet card interfaces to allow forwarding. I checked with Evi's Linux Sys Admin book, and I think the

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routing rules are correct, but I'm not sure.

Any help would be appreciated.

Thanks,

-Bob

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