Bynamie Keating mith Quagga

1. Install 'net/quagga' from ports:

```
# cd /usr/ports/net/quagga
# make
# make install
```

2. Copy the sample configuration files into place

```
# cd /usr/local/etc/quagga
# cp /usr/local/share/examples/quagga/zebra.conf.sample zebra.conf
# cp /usr/local/share/examples/quagga/ospfd.conf.sample ospfd.conf
```

- 3. Have a look at these files; they are very simple. "zebra" is the overall manager of the IP forwarding table; "ospfd" is the daemon which speaks the OSPF protocol.
- 4. On the router machine, edit /usr/local/etc/quagga/ospfd.conf and add an OSPF section listing the network(s) on which you wish to exchange OSPF information

```
router ospf
redistribute connected
network 202.144.139.192/26 area 0
```

5. Configure your interfaces as normal

ifconfig eth0 x.x.x.x netmask y.y.y.y
ifconfig eth1 x.x.x.x netmask y.y.y.y

6. Edit /etc/rc.conf to enable the daemons we want:

```
quagga_enable="YES"
quagga_daemons="zebra ospfd"
```

- 7. Start the selected daemons:
 - # /etc/rc.d/quagga start
- 8. Check your forwarding table (netstat -rn)
- 9. You can manage the router using telnet: the interface is just like a Cisco router! This lets you make configuration changes in real time.

```
# telnet 127.0.0.1 2601 -- to manage zebra (password "zebra")
Try: show interface
    enable -- to get superuser mode (password "zebra")
    show run
    show ip route
    exit
# telnet 127.0.0.1 2604 -- to manage ospfd
Try: show ip ospf neighbours
    show ip ospf noute
    exit
Hint: use [TAB] for command completion, and '?' to get a list of options
```

10. On the client machine, you can just point default route at the router. Or if you wish to play with zebra, then install it as above. You will need a 'network' statement on both machines to exchange information.

If you were running this in production, remember to change the default passwords!