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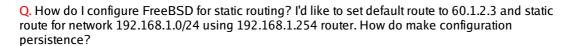
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### **FreeBSD Static Routing Configuration**

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A. You can use FreeBSD <u>route command</u> <sup>[2]</sup> to setup a default route / gateway. You need to edit /etc/rc.conf configuration file to setup static and default routing.

## **FreeBSD Static Routing Configuration**

Open /etc/rc.conf file using a text editor:

```
# vi /etc/rc.conf
```

#### Set default router IP to 60.1.2.3:

```
defaultrouter="60.1.2.3"
```

Create static routing for lan network 192.168.1.0/24, append following two lines:

```
static_routes="lan"
route_lan="-net 192.168.1.0/24 192.168.1.254"
```

Save and close the file. Where,

- static\_routes="lan": Set to the list of static routes that are to be addedat system boot time.
- route\_lan="-net 192.168.1.0/24 192.168.1.254" : Specify roting network and router IP address
- **defaultrouter="60.1.2.3"**: Set a default route to this host name or IP address. It is recommended that you use an IP address.

Restart FreeBSD networking service to update routing information:

```
# /etc/rc.d/netif restart
```

To view routing table, enter:

```
# netstat -r
# netstat -rn
```

# How do I add multiple static routes?

For each whitespace (blank space) separated element in the value, a route\_variable is assumed to exist whose contents will later be

passed to a route add operation at boot time. For example, setup static routing as follows:

| network                | router IP          |
|------------------------|--------------------|
| lan (192.168.1.0/24)   | 192.168.1.254      |
| mumoffice (10.0.0.0/8) | 10.30.110.5        |
| foo 169.254.1.1        | via loopback (lo0) |

#### Add following to /etc/rc.conf

```
static_routes="lan mumoffice foo"
route_lan="-net 192.168.1.0/24 192.168.1.254"
route_mumoffice="-net 10.0.0.0/8 10.30.110.5"
```

route foo="-host 169.254.1.1 -iface 100"

## **FreeBSD Multicast Roting Configuration**

Multicast routing requires that support be compiled into the kernel with the following option:

options MROUTING

In addition, the multicast routing daemon, mrouted must be installed and configured to set up tunnels and DVMRP via /etc/mrouted.conf. See mrouted page at offical <u>FreeBSD project page</u> [3] for more information.

## **Further readings:**

• See man pages - mrouted, router and rc.conf

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