

Table Of Contents

Table Of Contents	1
FreeBSD Static Routing Configuration	2
How do I add multiple static routes?	2
FreeBSD Multicast Roting Configuration	3
Further readings:	3

[Home](#) > [Faq](#) > [FreeBSD](#)

FreeBSD Static Routing Configuration

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Q. How do I configure FreeBSD for static routing? I'd like to set default route to 60.1.2.3 and static route for network 192.168.1.0/24 using 192.168.1.254 router. How do make configuration persistence?

A. You can use FreeBSD [route command](#) [2] 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 added at system boot time.
- **route_lan="-net 192.168.1.0/24 192.168.1.254"** : Specify routing 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 lo0"
```

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, mrouterd must be installed and configured to set up tunnels and DVMRP via /etc/mrouterd.conf. See mrouterd page at official [FreeBSD project page](http://www.freebsd.org/cgi/man.cgi?query=mrouterd&sektion=8) ^[3] for more information.

Further readings:

- See man pages - mrouterd, router and rc.conf

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[2] route command: <http://www.cyberciti.biz/faq/freebsd-setup-default-routing-with-route-command/>

[3] FreeBSD project page: <http://www.freebsd.org/cgi/man.cgi?query=mrouterd&sektion=8>