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FreeBSD VLAN Configuration

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How do I configure VLAN under FreeBSD operating system?

FreeBSD [1]

A virtual LAN [2], commonly known as a VLAN, is a group of hosts with a common set of requirements that communicate as if they were attached to the same wire, regardless of their physical location. A VLAN has the same attributes as a physical LAN, but it allows for end stations to be grouped together even if they are not located on the same LAN segment. Network reconfiguration can be done through software instead of physically relocating devices.

FreeBSD VLANs Configuration using ifconfig Command

To create a new VLAN interface, enter:

```
# ifconfig {vlan-name} create
```

To associate the VLAN interface with a physical interface and assign a VLAN ID, IP address, and netmask:

```
# ifconfig {vlan-name} {ip-address} netmask {subnet-mask} vlan {vlan-id} vlandev
{physical-interface}
```

The following examples, all packets will be marked on egress with 802.1Q VLAN tags, specifying a VLAN ID of 5:

```
# ifconfig vlan5 10.0.0.1 netmask 255.255.255.0 vlan 5 vlandev em0
```

To remove a VLAN interface, enter:

```
# ifconfig {vlan-name} destroy
```

Persistence VLAN Configuration

To make configuration persistence, open /etc/rc.conf:

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

Append / modify as follows:

```
cloned_interfaces="vlan0"
ifconfig_vlan0="inet x.x.x.x netmask y.y.y.y vlan 2 vlandev em0"
```

Fuhrer readings:

*   FreeBSD man pages - ifconfig and rc.conf
*   FreeBSD VLANs mini howto [3]

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URLs in this post:

[1] Image: **http://www.cyberciti.biz/faq/category/freebsd/**

[2] A virtual LAN: **http://en.wikipedia.org/wiki/Virtual_LAN**

[3] FreeBSD VLANs mini howto: **http://people.freebsd.org/~arved/vlan/vlan_en.html**