

# How to config ipv6 for this instance

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*Source:* <http://unix.derkeiler.com/Mailing-Lists/FreeBSD/questions/2008-05/msg00431.html>

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  - *Date:* Sat, 10 May 2008 09:29:35 +0800
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Hi,

I have read the handbook and spent hours on the configuration of ipv6 on laptop, but still can't get it done.

The local network administrator only suggest the following steps to setup ipv6 on windows xp and it works fine on that platform. I just don't know to get it work on FreeBSD, would anyone guide me in detail so I can also help the people around me.

Many thanks!

```
// The following steps make ipv6 works fine on windows xp
ipv6 install
netsh > interface ipv6 isatap set router 202.112.95.129
netsh > interface ipv6 add route ::/0 2 2001:da8:207:1:0:5efe:202.112.95.129
```

```
// Here is the output of "uname -a" of my laptop
FreeBSD zhu.net 6.2-RELEASE FreeBSD 6.2-RELEASE #0: Fri Jan 12
10:40:27 UTC 2007root@xxxxxxxxxxxxxxxxxxxxxxxxxxxxx:/usr/obj/usr/src/sys/GENERIC
i386
```

```
// Output of "ifconfig -a"
fwe0: flags=108943<UP,BROADCAST,RUNNING,PROMISC,SIMPLEX,MULTICAST,NEEDSGIANT>
mtu 1500
options=8<VLAN_MTU>
inet6 fe80::e0:18ff:fe86:69cb%fwe0 prefixlen 64 scopeid 0x1
ether 02:e0:18:86:69:cb
ch 1 dma 0
r10: flags=8843<UP,BROADCAST,RUNNING,SIMPLEX,MULTICAST> mtu 1500
options=8<VLAN_MTU>
inet6 fe80::21a:92ff:febf:ab3d%r10 prefixlen 64 scopeid 0x2
inet 172.16.120.226 netmask 0xfffffe00 broadcast 172.16.121.255
ether 00:1a:92:bf:ab:3d
media: Ethernet autoselect (10baseT/UTP)
status: active
lo0: flags=8049<UP,LOOPBACK,RUNNING,MULTICAST> mtu 16384
inet6 ::1 prefixlen 128
inet6 fe80::1%lo0 prefixlen 64 scopeid 0x3
inet 127.0.0.1 netmask 0xff000000
```

```
// My /etc/rc.conf file
```

## How to config ipv6 for this instance

```
# -- sysinstall generated deltas -- # Sat May 10 03:05:25 2008
# Created: Sat May 10 03:05:25 2008
# Enable network daemons for user convenience.
# Please make all changes to this file, not to /etc/defaults/rc.conf.
# This file now contains just the overrides from /etc/defaults/rc.conf.
defaultrouter="172.16.120.1"
hostname="zhu.net"
ifconfig_rl0="inet 172.16.120.226 netmask 255.255.254.0"
keymap="us.iso"
keyrate="fast"
sshd_enable="YES"
usbd_enable="YES"
ipv6_enable="YES"

# added by xorg-libraries port
local_startup="/usr/local/etc/rc.d"

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