

World IPv6 Day and how to connect FreeBSD through a Teredo Tunnel

It has finally arrived, the [World IPv6 Day!](#)

So you don't have native IPv6 network access? No problem, just use a Teredo Tunnel to get connected. Here's a very short primer on doing so on FreeBSD.

Firstly install the **miredo** package from the ports tree.

```
[root@GPWS ~]# cd /usr/ports/net/miredo/  
[root@GPWS /usr/ports/net/miredo]# make clean install
```

Alternatively, install the binary package:

```
[root@GPWS ~]# pkg_add -r miredo
```

Enable **miredo** in your rc.conf:

```
[root@GPWS ~]# echo miredo_enable=YES >> /etc/rc.conf
```

Make sure to have a proper /usr/local/etc/miredo.conf.
Here's my very minimalistic config:

```
#!/usr/local/sbin/miredo -f -c  
#  
RelayType client  
InterfaceName teredo  
#BindPort      3545  
#BindAddress   192.168.2.1  
ServerAddress teredo.ipv6.microsoft.com
```

Note: Depending on your setup, e.g. with multiple interfaces, you may need to specify a BindAddress to use the proper network interface.

So to speak, you may need to specify also a specific port for some NAT setups.

Now fire up miredo:

```
[root@GPWS ~]# /usr/local/etc/rc.d/miredo start
```

You should end up with a new network interface by the name of 'teredo':

```
[root@GPWS ~]# ifconfig teredo
teredo: flags=43 metric 0 mtu 1500
    options=80000
    inet6 fe80::ffff:ffff:ffff%teredo prefixlen 64 scopeid 0xb
    inet6 2001:0:5ef5:79fb:4e9:5e1b:2ba5:360b prefixlen 128
    nd6 options=3
    Opened by PID 93528
```

You should now be able to **ping6** any IPv6-enabled host on the internet.

```
[root@GPWS ~]# ping6 www.google.ch
PING6(56=40+8+8 bytes) 2001:0:5ef5:79fb:4e9:5e1b:2ba5:360b --> 2a00:1450:8001::93
16 bytes from 2a00:1450:8001::93, icmp_seq=0 hlim=57 time=90.062 ms
16 bytes from 2a00:1450:8001::93, icmp_seq=1 hlim=57 time=18.996 ms
16 bytes from 2a00:1450:8001::93, icmp_seq=2 hlim=57 time=18.810 ms
C
--- www.l.google.com ping6 statistics ---
3 packets transmitted, 3 packets received, 0.0% packet loss
round-trip min/avg/max/std-dev = 18.810/42.623/90.062/33.545 ms
```

Happy surfing!