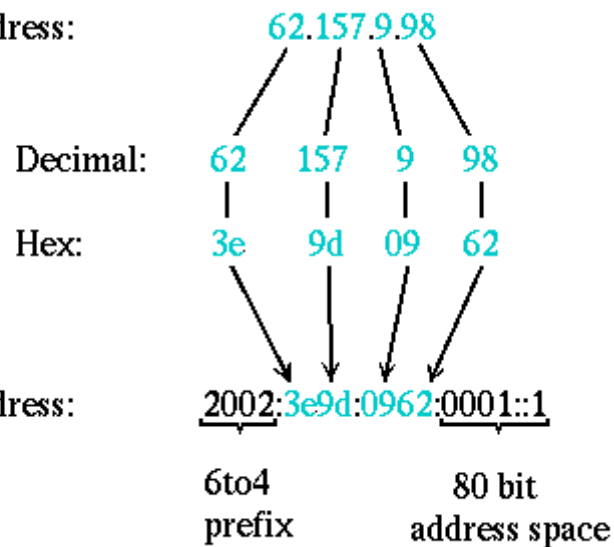# Setting up an IPv6 tunnel via 6to4

From MikroTik Wiki

You **must** have a static IP address for this to work.

This is some necessary information:

```
Static IPv4 address: 62.157.9.98
Static IPv6 address: 2002:3e9d:0962:1::1
Usable /48: 2002:3e9d:0962::/48
```

Note: A 6to4 calculator is available at grox.net (http://grox.net/utils/ipv6.php) - select IPv4 to 6to4 address

Setup the 6to4 interface

```
/interface 6to4 add mtu=1280 name=ipng-tunnel local-address=62.157.9.98 remote-address=192.88.99.1 disabled=no
```

Add your client IPv6 address to the new interface

```
/ipv6 address add address=2002:3e9d:0962:1::1/3 interface=ipng-tunnel
```

Add a default route to the global IPv6 Internet through the tunnel interface using the anycast IPv4 address:

```
ipv6 route add dst-address=2000::/3 gateway=::192.88.99.1,ipng-tunnel
```

Syntax for RouterOS v4.x, or RouterOS 3.x with **routing-test**:

```
ipv6 route add dst-address=2000::/3 gateway=::192.88.99.1%ipng-tunnel
```

You can now add your IPv6 addresses as required for your internal network.

Example:

```
/ipv6 address add address=2002:3e9d:0962:2::1/64 interface=ether1 advertise=yes disabled=no
```

Image taken from O'Reilly ONLamp (http://www.onlamp.com/pub/a/onlamp/2001/06/01/ipv6_tutorial.html)

Retrieved from "https://wiki.mikrotik.com/index.php?title=Setting_up_an_IPv6_tunnel_via_6to4&oldid=20601"

Category: IPv6

- This page was last edited on 5 March 2011, at 19:27.