

IPv6

ff::/8	multicast	ff0x is reserved		
ff01::1	multicast	all nodes	interface local	
ff02::1	multicast	all nodes	link local	ping ff02::1%tun2
ff01::2	multicast	all routers	interface local	
ff02::2	multicast	all routers	link local	
ff03::2	multicast	all routers	site local	
fe80::/10	link local address			
fc00::/7	Unique Local Address (ULA)	fc00::/7 and fd00::/7		
2000::	Global address	first		
3fff:ffff:ffff:ffff:ffff:ffff:ffff:ffff	Global address	last		

[/etc/network/interfaces](#)

```

iface eth0 inet dhcp
iface eth0 inet6 static
    address 2001::2
    netmask 64
    up -ip -6 route add ::/0 via 2001::1 dev eth0
    down ip -6 route del ::/0 via 2001::1 dev eth0

```

Autoconfig and RA

<http://strugglers.net/~andy/blog/2011/09/04/linux-ipv6-router-advertisements-and-forwarding/>

Auto configuration can be disabled temporary for eth1 with:

```

sudo sysctl -w net.ipv6.conf.eth1.autoconf=0
sudo sysctl -w net.ipv6.conf.eth1.accept_ra=0

```

or for all interfaces with:

```

sudo sysctl -w net.ipv6.conf.all.autoconf=0
sudo sysctl -w net.ipv6.conf.all.accept_ra=0

```

Reenabling works by using 1 instead of 0 in the call.

RADVD

Router **ADVvertisement **D**aemon.** This daemon listens to router solicitations (RS) and answers with router advertisement (RA). Furthermore unsolicited RAs are also sent from time to time.

This protocol is meant for host auto-configuration and not for route propagation between routers.

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