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Debian IPv6 Virtual (Additional) Static Addresses Configuration

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I know how to [add additional IPv4 IP](#) ^[2] address using virtual IP address configuration under Debian Linux. How do I add additional IPv6 address (aliased IPv6 addresses) under Debian Linux server?



[1]

You cannot use virtual interface style naming such as eth0:1 with IPv6. You need to use /sbin/ifconfig or /sbin/ip command with UP command in /etc/network/interfaces file to configure additional IPv6 address. The following example shows the addition of a secondary address using the /sbin/ifconfig command.

Our sample IPv6 Address

1. Main Static IPv6 address: 2607:f0d0:2001:000a:0000:0000:0000:0002/64
2. Ipv6 gateway address: 2607:f0d0:2001:000a:0000:0000:0000:0001
3. Additional Ipv6 address #1: 2607:f0d0:2001:000a::3/64
4. Additional Ipv6 address #2: add 2607:f0d0:2001:000a::4/64
5. Interface: eth0
6. Ipv6 Type: Static

Debian IPv6 Virtual Interface (aliased) Configuration

Open /etc/network/interfaces file, enter:

```
# vi /etc/network/interfaces
```

Modify / append configuration as follows:

```
#IPv6 configuration
iface eth0 inet6 static
    pre-up modprobe ipv6
    address 2607:f0d0:2001:000a:0000:0000:0000:0002
    netmask 64
    gateway 2607:f0d0:2001:000a:0000:0000:0000:0001
# Start IPv6 secondary additional IP configuration
up /sbin/ifconfig eth0 inet6 add 2607:f0d0:2001:000a::3/64
up /sbin/ifconfig eth0 inet6 add 2607:f0d0:2001:000a::4/64
```

Save and close the file. Restart networking:

```
# /etc/init.d/networking restart
```

Verify new Ipv6 networking settings including secondary address:

```
# ifconfig eth0
# ip -6 route show
# ping6 www.cyberciti.biz
# ping6 2607:f0d0:2001:000a::3
```

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[1] Image: <http://www.cyberciti.biz/faq/category/debian-ubuntu/>

[2] add additional IPv4 IP: <http://www.cyberciti.biz/faq/bind-alias-range-of-ip-address-in-linux/>

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