Table Of Contents

Home > Faq > Debian / Ubuntu

Debian IPv6 Networking Configuration
Posted by Vivek Gite <vivek@nixcraft.com>

[1]

How do I configure static IPv6 networking under Debian Linux?

You need to add networking configuration to /etc/network/interfaces file as follows:
a) Ipv6 Address

b) Ipv6 Gateway

c) Netmask

Out Sample Debian Linux Ipv6 Configuration

1. Ipv6 Address IP: 2607:f0d0:2001:000a:0000:0000:0000:0002/64
2. Ipv6 Gateway IP: 2607:f0d0:2001:000a:0000:0000:0000:0001
3. Interface name: eth0
4. IPv6 Type: Static

Open /etc/network/interfaces file, enter:

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

Append configuration as follows:

```
#IPV6 static 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
# END IPV6 configuratio
```

Save and close the file. Restart the networking:

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

Verify IPv6 networking

Print your current routing:

```
# ip -6 route show
```

Ping Ipv6 enabled website:

```
# ping6 www.cyberciti.biz
# ping6 ipv6.google.com
```

Sample output:

```
PING www.cyberciti.biz(www.cyberciti.biz) 56 data bytes
64 bytes from www.cyberciti.biz: icmp_seq=1 ttl=60 time=65.2 ms
64 bytes from www.cyberciti.biz: icmp_seq=2 ttl=60 time=64.0 ms
64 bytes from www.cyberciti.biz: icmp_seq=3 ttl=60 time=64.0 ms
64 bytes from www.cyberciti.biz: icmp_seq=4 ttl=60 time=64.0 ms
64 bytes from www.cyberciti.biz: icmp_seq=5 ttl=60 time=63.9 ms
```

See also:

- Debian IPv6 Virtual (Additional) Static Addresses Configuration [2]

> 4000+ howtos and counting! Want to read more Linux / UNIX howtos, tips and tricks? Subscribe to our daily email newsletter or weekly newsletter to make sure you don't miss a single tip/tricks. Alternatively, subscribe via RSS/XML feed.

Article printed from Frequently Asked Questions About Linux / UNIX: **http://www.cyberciti.biz/faq/**

URL to article: **http://www.cyberciti.biz/faq/debian-linux-ipv6-networking-configuration/**

URLs in this post:

[1] Image: **http://www.cyberciti.biz/faq/category/debian-ubuntu/**
[2] Debian IPv6 Virtual (Additional) Static Addresses Configuration: **http://www.cyberciti.biz/faq/debian-linux-ipv6-virtual-additional-configuration/**