

Official Tutorial: <https://cloudsupport.digitalocean.co...N000000CorQQAS>

### Control Panel

- Droplets > {your-droplet} > Networking >
- Public IPv6 network = Enable

NOTE: once enabled you will get the details of IPv6 network on the same page.

### Your droplet

?? droplet

```
#> ssh root@{public_ipv4_address}
```

```
#> ip -6 addr show eth0
```

```
2: eth0: <BROADCAST,MULTICAST,UP,LOWER_UP> mtu 1500 qlen 1000
    inet6 fe80::601:1eff:feb8:ee01/64 scope link
        valid_lft forever preferred_lft forever
```

NOTE: As you can see, we already have one address in the configuration. This is the link-local address and is a mandatory requirement for various routing and protocol functions. This is not our public address; we still need to configure that.

?? IPv6 address

```
#> ip -6 addr add {public_ipv6_address}/64 dev eth0
```

```
#> ip -6 route add {default via public_ipv6_gateway} dev eth0
```

```
#> ip -6 route add default via {default via public_ipv6_gateway}
```

```
????????IPv6????????????????????????????????
```

?? the IPv6 default gateway

```
route -n -A inet6
```

```
ip -6 route show
```

?? IPv6 ??

```
#> ping6 2001:4860:4860::8888
```

```
PING 2001:4860:4860::8888(2001:4860:4860::8888) 56 data bytes
```

```
64 bytes from 2001:4860:4860::8888: icmp_seq=0 ttl=60 time=3.76 ms
```

```
64 bytes from 2001:4860:4860::8888: icmp_seq=1 ttl=60 time=0.789 ms
```

```
64 bytes from 2001:4860:4860::8888: icmp_seq=2 ttl=60 time=0.764 ms
```

```
#> dig @2001:4860:4860::8888 www.google.com
```

```
...
```

```
;; ANSWER SECTION:
```

```
www.google.com.      123      IN      A      74.125.24.106
```

```
www.google.com.      123    IN     A      74.125.24.103
www.google.com.      123    IN     A      74.125.24.147
www.google.com.      123    IN     A      74.125.24.105
www.google.com.      123    IN     A      74.125.24.104
www.google.com.      123    IN     A      74.125.24.99
```

...

#> traceroute6 ipv6.google.com

traceroute to ipv6.google.com (2404:6800:4003:803::200e), 30 hops max, 40 byte packets

```
 1 2400:6180:0:d0:ffff:ffff:ffff:fff1 (2400:6180:0:d0:ffff:ffff:ffff:fff1) 1.046 ms 2400:6180:0:d0:ffff:ffff:ffff:fff2
(2400:6180:0:d0:ffff:ffff:ffff:fff2) 1.074 ms 0.878 ms
 2 2604:a880:ffff:9::215 (2604:a880:ffff:9::215) 1.022 ms 2604:a880:ffff:9::219 (2604:a880:ffff:9::219) 0.732 ms
2604:a880:ffff:9::20d (2604:a880:ffff:9::20d) 0.520 ms
 3 2604:a880:ffff:9:0:1:0:a (2604:a880:ffff:9:0:1:0:a) 0.916 ms 2604:a880:ffff:9:0:1:0:2 (2604:a880:ffff:9:0:1:0:2)
1.250 ms 2604:a880:ffff:9:0:1:0:a (2604:a880:ffff:9:0:1:0:a) 1.075 ms
 4 2400:6180::90d (2400:6180::90d) 0.845 ms 0.779 ms 0.953 ms
```

???? IPv6 ??

/etc/sysconfig/network

...

NETWORKING\_IPV6=yes

/etc/sysconfig/network-scripts/ifcfg-eth0

...

IPV6INIT=yes

IPV6ADDR=primary\_ipv6\_address/64

IPV6\_DEFAULTGW=ipv6\_gateway

IPV6\_AUTOCONF=no

...