Hetzner Cloud - IPv6 Setup on Ubuntu 22.04

Hello,

I ordered a VPS Cloud from Hetzner, and it's true that once delivered, you need to configure IPv6.

For my setup, I'm using a CX22 - Cloud, running Ubuntu 22.04.

Start by updating your Cloud server:

```
apt update && apt upgrade -y
```

Next, navigate to the `50-cloud-init.yaml` file located in netplan:

```
nano /etc/netplan/50-cloud-init.yaml
```

Here is the default configuration:

```
# This file is generated from information provided by the datasource.  Changes
# to it will not persist across an instance reboot.  To disable cloud-init's
# network configuration capabilities, write a file
# /etc/cloud/cloud.cfg.d/99-disable-network-config.cfg with the following:
# network: {config: disabled}
network:
    version: 2
    ethernets:
        eth0:
            addresses:
            - 2a01:XXX:XXX:XXX::1/64
            dhcp4: true
            match:
                macaddress: 96:XX:XX:XX:XX:XX
            nameservers:
                addresses:
                - 2a01:XXX:XXXX::add:1
```

```
        - 2a01:XXX:XXXX::add:2
      routes:
      -  on-link: true
        to: default
        via: fe80::1
      set-name: eth0
```

You can make a backup copy:

```
cp /etc/netplan/50-cloud-init.yaml /etc/netplan/50-cloud-init.yaml.bck
```

Now, on line 11, change `2a01:XXX:XXX:XXX::1/64` to `2a01:XXX:XXX:XXX::24/64`. For this example, I changed it to `::24`.

```
# This file is generated from information provided by the datasource.  Changes
# to it will not persist across an instance reboot.  To disable cloud-init's
# network configuration capabilities, write a file
# /etc/cloud/cloud.cfg.d/99-disable-network-config.cfg with the following:
# network: {config: disabled}
network:
  version: 2
  ethernets:
    eth0:
      addresses:
      - 2a01:XXX:XXX:XXX::24/64 # change ::1 to ::24 here
      dhcp4: true
      match:
        macaddress: 96:XX:XX:XX:XX:XX
      nameservers:
        addresses:
        - 2a01:XXX:XXXX::add:1
        - 2a01:XXX:XXXX::add:2
      routes:
      -  on-link: true
        to: default
        via: fe80::1
      set-name: eth0
```

Save the changes and run the following command:

```
netplan try
```

If you see this message:

> ** (process:16923): WARNING **: 02:56:51.010: Permissions for /etc/netplan/50-cloud-init.yaml are too open.
>
> Netplan configuration should NOT be accessible by others.

Press Enter, then run this command to fix the permissions issue:

> sudo chmod 600 /etc/netplan/50-cloud-init.yaml

Then, rerun the command:

> netplan try

Finally, apply the changes with the following command:

> netplan apply

To verify everything is working, try these commands:

> curl -6 https://ip.hetzner.com
>
> ping -6 google.com
>
> ip a

```
                SERV-2:~# curl -6 https://ip.hetzner.com
2a               c73::24
            -SERV-2:~# ping -6 google.com
PING google.com(fra24s05-in-x0e.1e100.net (2a00:1450:4001:828::200e)) 56 data
bytes
64 bytes from fra24s05-in-x0e.1e100.net (2a00:1450:4001:828::200e): icmp_seq=1
 ttl=116 time=4.51 ms
64 bytes from fra24s05-in-x0e.1e100.net (2a00:1450:4001:828::200e): icmp_seq=2
 ttl=116 time=3.95 ms
64 bytes from fra24s05-in-x0e.1e100.net (2a00:1450:4001:828::200e): icmp_seq=3
 ttl=116 time=3.82 ms
64 bytes from fra24s05-in-x0e.1e100.net (2a00:1450:4001:828::200e): icmp_seq=4
 ttl=116 time=3.89 ms
64 bytes from fra24s05-in-x0e.1e100.net (2a00:1450:4001:828::200e): icmp_seq=5
 ttl=116 time=3.84 ms
64 bytes from fra24s05-in-x0e.1e100.net (2a00:1450:4001:828::200e): icmp_seq=6
 ttl=116 time=3.80 ms
^C
--- google.com ping statistics ---
6 packets transmitted, 6 received, 0% packet loss, time 5007ms
rtt min/avg/max/mdev = 3.803/3.966/4.509/0.247 ms
```