NDPPD to enable fully routed /64 for IPv6

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Monday, 11 May 2020 17:51 - Last Updated Monday, 11 May 2020 17:53

Recently VSHELL has rolled out IPv6 connectivity in some locations and each virtual machine is provided with its own /64. However, the /64 is not fully routed.

When any request (eg. an ICMPv6 echo request) whose destination address is in the /64 but not yet configured/assigned is sent from a remote host, the default gateway instead send a neighbor solicitation multicast to ask who has this address. If it receives no reply, the original request will never reach the interface.

In this situation, **ndppd** (NDP Proxy Daemon) can be used to reply to the default gateway for the whole subnet. Here is an example with *2001:19f0:5c00:802a::/64*.

Since **ndppd** is not available in the repo, just download the latest tarball to build it from source with *g++*.

```
wget http://data.vshell.net/files/ndppd-0.2.5.tar.gz
tar -zxvf ndppd-0.2.5.tar.gz
cd ndppd-0.2.5  make  make install
```

- create /etc/ndppd.conf -

```
route-ttl 30000  proxy eth0 {  router yes  timeout 500  ttl 30000  rule 2001:19f0:5c00:802a::/64 {
static  }
}
```

--- start ndppd

```
ndppd -d -c /etc/ndppd.conf
```