## NDPPD to enable fully routed /64 for IPv6

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