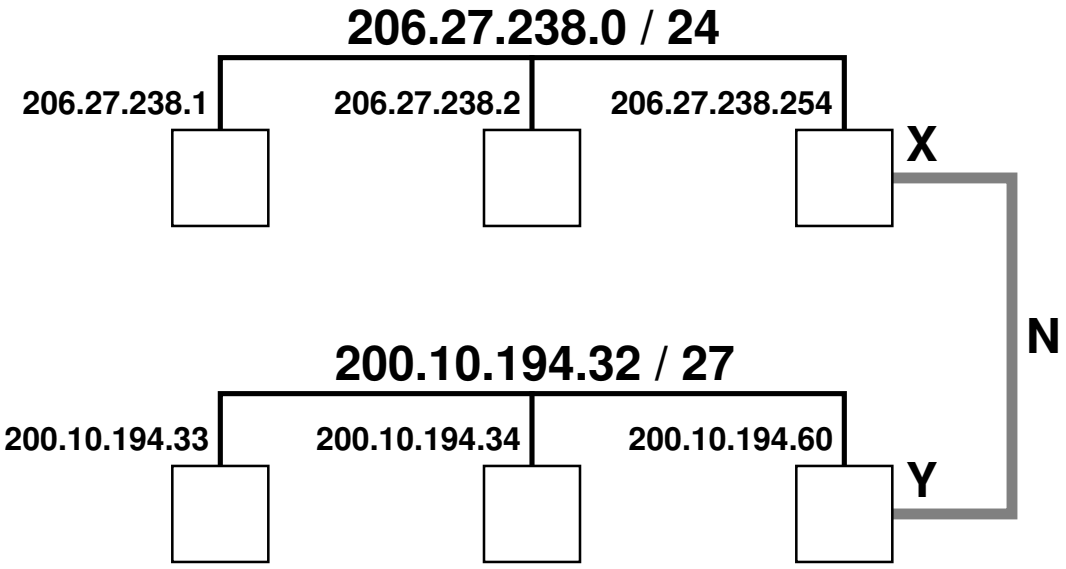
IP numbers for serial links



Numbered serial link

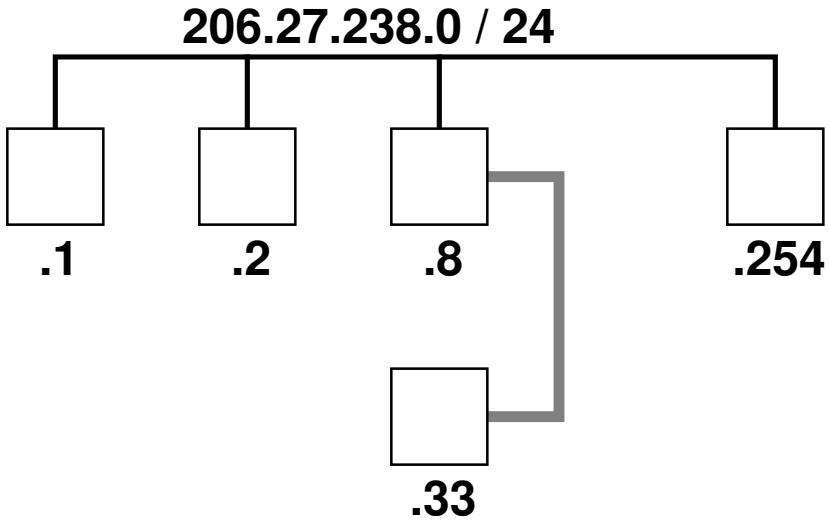
N = 206.27.239.4 / 30
X = 206.27.239.5
Y = 206.27.239.6

Unnumbered serial link NEW!

N = none!
X = 206.27.238.254
Y = 200.10.194.60

Re-use the IP numbers from other interfaces

Proxy ARP

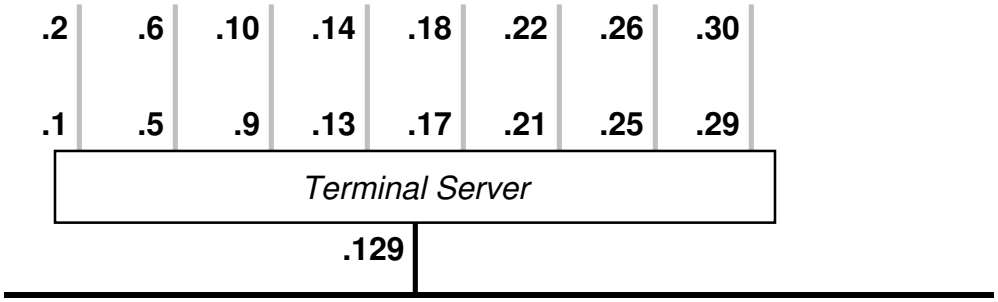


- **Can ‘steal’ individual IP numbers off a LAN for use remotely**
- **Anyone on the LAN sending to that IP number will try to use ARP**
- **So the gateway must send ARP response on behalf of the remote node – *proxy ARP***
  - pppd *can set up proxy ARP: add “proxyarp” to* /etc/ppp/options.ttyS*n*
  - *you can manually add ‘publish’ ARP entries:*

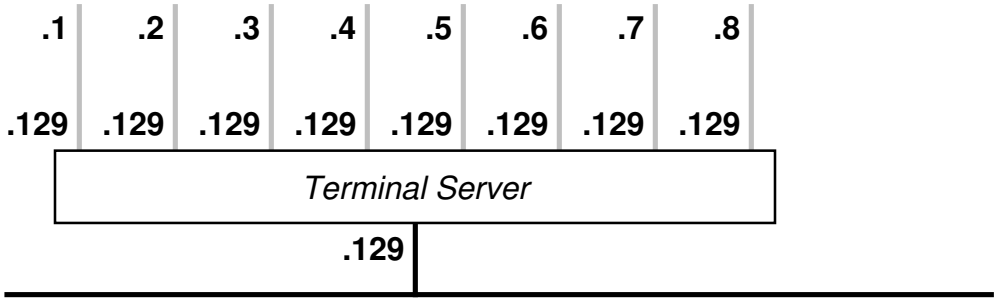
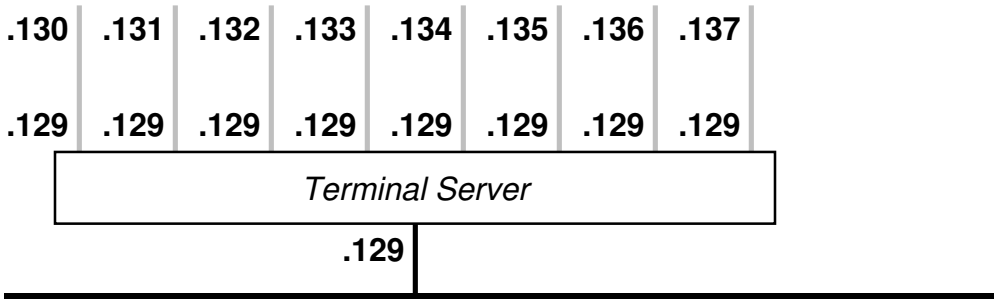
    arp -Ds *w.x.y.z eth0* **pub**

IP number allocation for dial-up terminal server

(1) /30 subnets for each link



(2) Unnumbered, one subnet for all remote users



(3) Proxy ARP