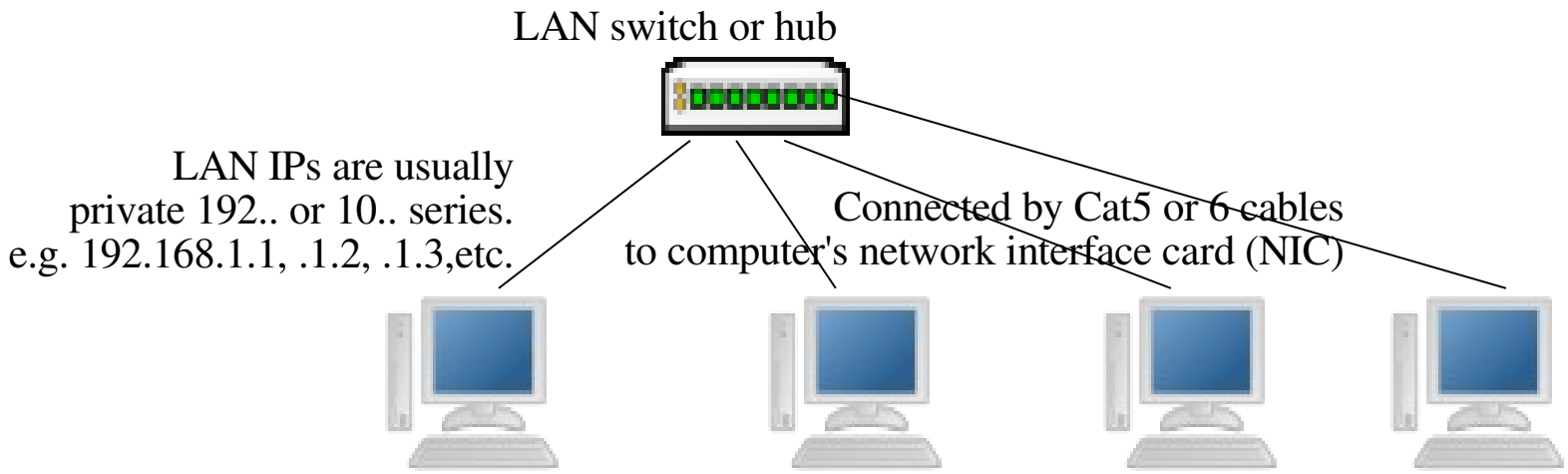
Sharing an Internet connection

For small offices & networks

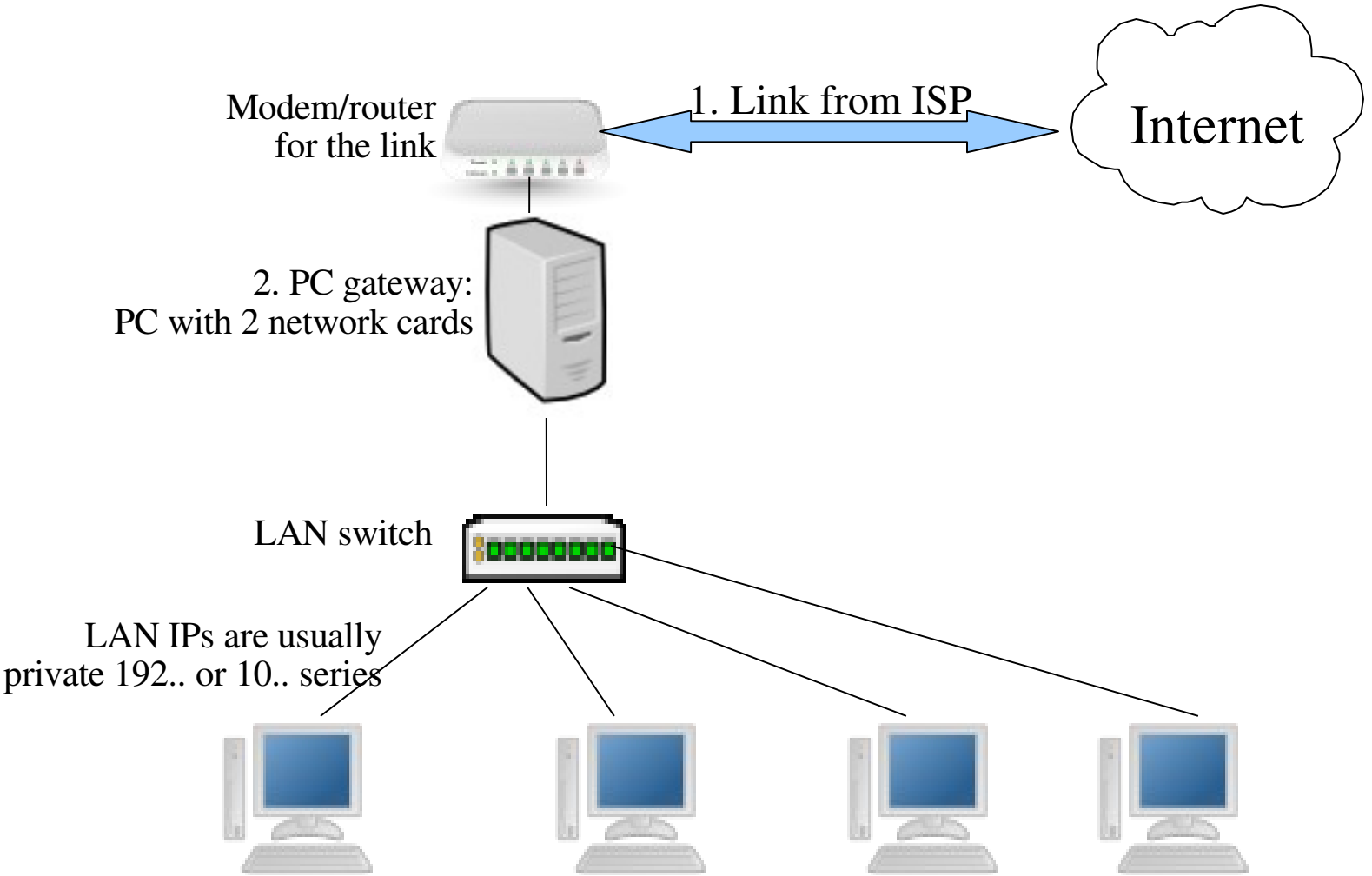
www.captain-mail.in

Setting up the LAN

After setting up the network, test using the ping command, or just going to network neighbourhood.



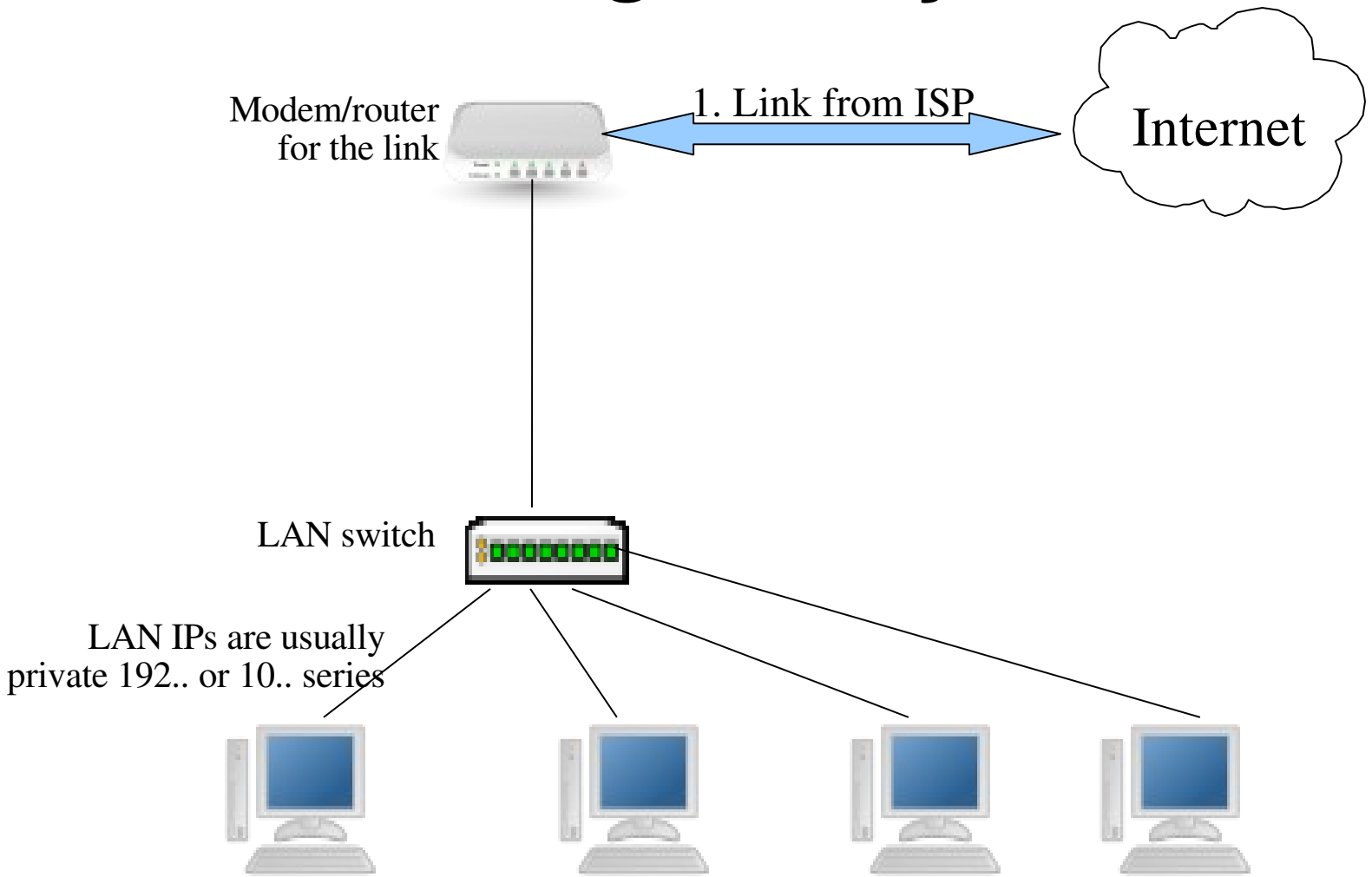
Option 1: Use a PC gateway



Steps involved

- Setup LAN and test it
- Setup gateway system with 2 NICs, terminate ISP connection on 1 NIC
- Configure ISP connection on this system and test it
- Enable Internet connection sharing / NAT (network address translation) on this system
- On all the other systems on the LAN, set the default gateway setting to the LAN IP address of the gateway; and set DNS address as given by the ISP

Option 2: Use router/modem as gateway



Steps involved (option 2)

- Setup LAN and test it
- Setup ISP connection, ie configure modem/router (Should be configured in gateway mode, with routing and NAT enabled.)
- Test connection
- On all the other systems on the LAN, set the default gateway setting to the LAN IP address of the gateway, ie router/modem; and set DNS address as given by the ISP

Hardware suggested for gateway

- Good quality system with good quality power supply (it's a critical system)
- 2 NIC cards
  - NIC should be based on RTL 8139 chipset (D-Link 530Tx recommended)
- 256 MB RAM ; CD-ROM drive
- HDD: 20 GB
  - Connect HDD as IDE Primary Master or if SATA, SATA Master

Connections – DSL Internet

- DSL (tel.) line comes to splitter (RJ-11)
- Tel. cable from splitter to DSL Modem (RJ-11)
- LAN Cable (RJ-45/Cat-5) from modem to 1st NIC of PC
- LAN Cable (RJ-45/Cat-5) from 2nd NIC of PC to LAN switch