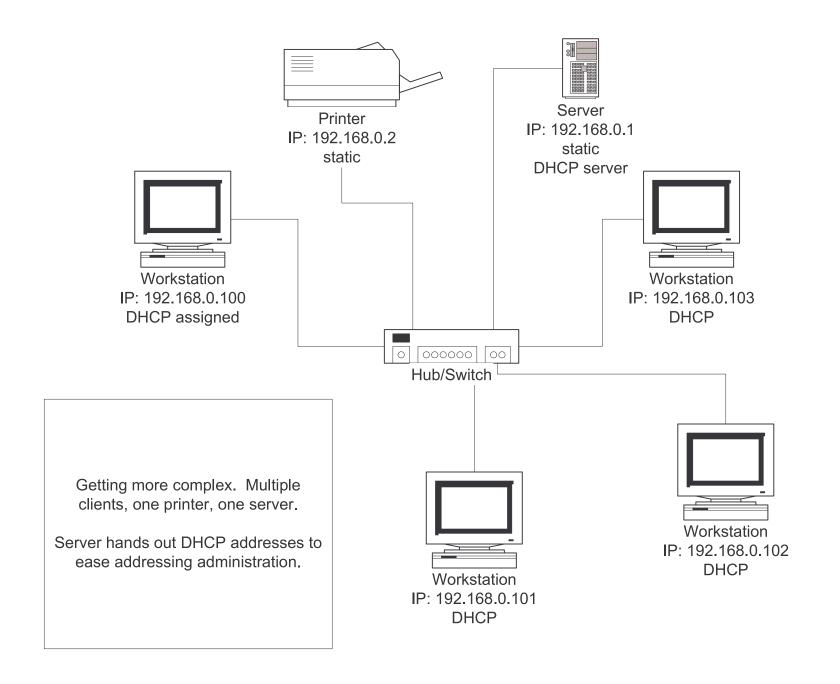
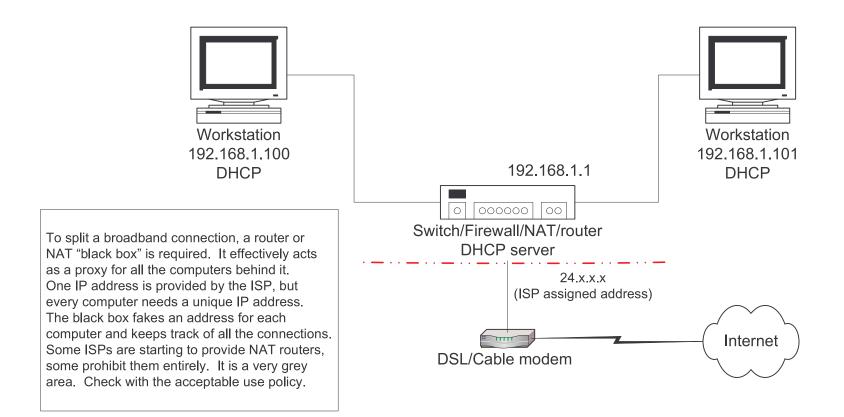


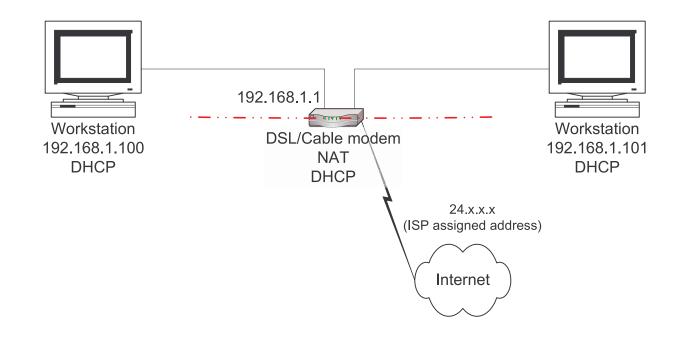
The basic network. Two machines, two ethernet cables, and a hub.

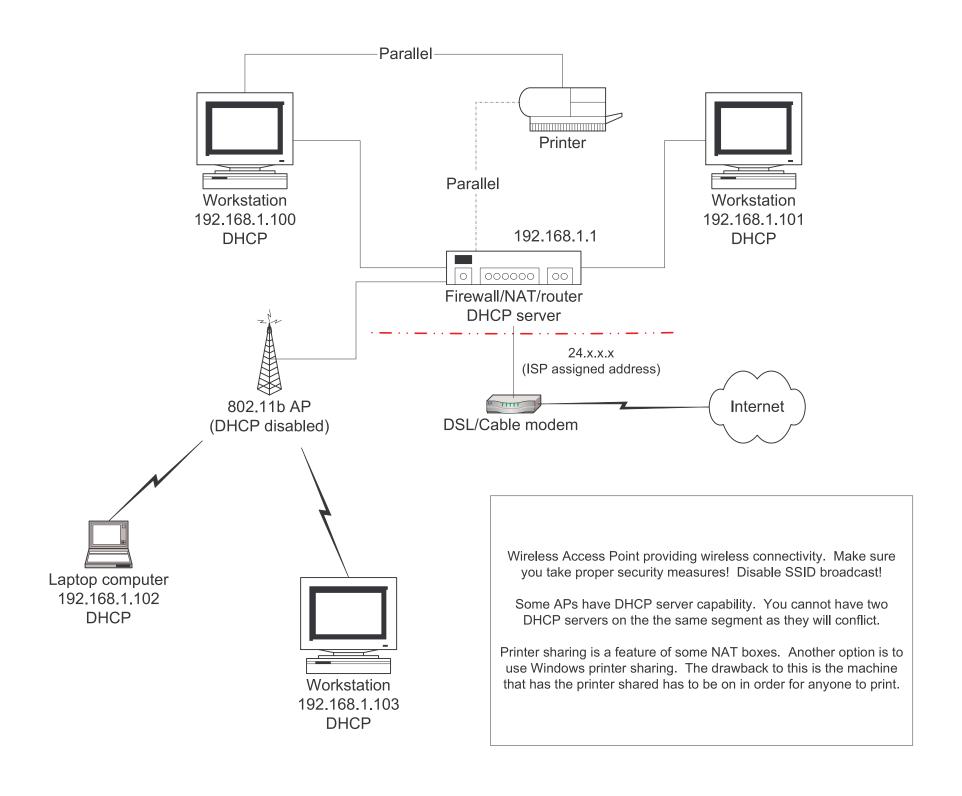
However, needs manual IP addressing or a protocol that does this automatically (IPX or NetBEUI).

TCP/IP is the best protocol to use however. IPX and NetBEUI are not Internet compatible.









Reserved network ranges:

10.0.0.0 - 10.255.255.255

192.168.0.0 - 192.168.255.255 - Most consumer devices are using 192.168.1.0 - 192.168.1.255

176.16.0.0 - 176.31.255.255

169.254.0.0 - 169.254.255.255 - Microsoft uses this for it's "autodetect" range.

Use a netmask of 255.255.255.0. There are other ways to set this, but this is the most common.

Gateway is the IP of your router/NAT device, typically 192.168.1.1.

Every computer needs a unique IP address. This can be assigned statically where you have to configure each machine manually, or use DHCP where a DHCP server on the network allocates dynamically IP addresses for which ever computer requests one.

Each computer on the network must have a similar network type interface card. You must use all ethernet or all homePNA or all HomePlug type adapters.

Ping [ip\_address] is a low level method of testing connectivity. If you can ping a computer, that means you should be able to communicate on a higher level (share files). A time out error means that the other computer did not answer.

Define all the computers to be in the same workgroup. Default in windows is, surprise, "workgroup".

\\computer\_name\resource is the syntax for finding and using computers and whatever they have to offer on the network. \\server\laserprinter could be the path to the network printer for example. \\server\sharedfiles - guess where this goes. Each computer has to have a unique name. Otherwise, how do you specify which network resource you are trying to access?