

Checklist to setup a C218 workstation for Eagle Server labs.

(This looks like a lot of steps at first, but it gets easy after you do it a few times.)

The basic idea is to "patch" a workstation through to a dedicated switch that connects to the Eagle Server. We use "structured cabling", short patch cables connected to the same port number on both ends of long, fixed cable runs that go from the lab workstations over to the equipment racks.

- **choose a workstation that has two NICs, ideally with two network cables plugged in,**

for workstations by the windows (only ports 1-22 work):

- from the nic in center of the back of the computer to the grey raceway (goes to the Internet),
- from the nic in the left of the back of the computer to the white raceway (to our Cisco network)

for workstations on the "island" (ports 25-44)

- the red cable that disappears into the center of the island goes to the internet.
- the short patch cable plugged into a numbered port in the center of the island goes to Cisco network. (If your workstation 2nd nic is not connected, connect a straight through patch cable to an open port.)

- **turn on your workstation**

- **patch your workstation into the Eagle Server switch (there are two)**

-notice the port number that your 2nd Nic is connected to

-get a straight through patch cable (usually yellow).

-go to the cabinets in the back of the room:

-connect one end of the patch cable to the same number port in a patch panel

-patch panels are near the top of a cabinet (port# are shown by paper labels):

-ports 1-12 are in the 1st (leftmost) cabinet.

-ports 13-24 are in the 2nd cabinet.

-ports 25-36 are in the 3rd cabinet.

-ports 37-48 are in the 4th (rightmost) cabinet.

-connect the second end of the patch cable into an eagle server switch (there are two):

-for ports 1-24, use any open port on the switch at the bottom of the leftmost cabinet.

-for ports 25-48, use any open port on the switch near the top of the rightmost cabinet.

-the light above where you connect on the switch turns first yellow, then green.

(If it does not turn green after a few minutes, then check the port# you plugged into, that you have a straight through cable, & that your computer is turned on.)

- **back at the workstation...**

- if you want access to the lab manual while you do the labs...

go to <http://fog.ccsf.edu/~pwood/c201E-calgen.html>

in the upper right is link to a pdf of the full lab manual. (username/password: cisco/class)

(continued on next page)

- disable the "ccsf" NIC, & turn off the firewall on the "cisco" NIC.

- go to "network connections". start->control.panel->network.connections
- right-click on the nic labeled "ccsf", and "disable" it.
(this sets the default route to go to the Cisco network)
- right-click on the nic labeled "cisco", to go "properties".
 - click on the "advanced" tab & turn off the firewall.
(this allows pings to get through)
- close up the window.

- open up a DOS command window & test your connection.

- check the current nic config by typing: **ipconfig** (only the "cisco" nic configuration will show)
- check that you can **ping** the "**gateway ip address**" (shown by ipconfig)
(this shows that you are cabled up correctly & have the firewall off.)
- check that you can **ping** through to the eagle server ip address (**192.168.254.254**)
(this shows that you have the correct default gateway in your routing table.)

Now you are ready to begin the labs.