i341 Lab week 4 (IP add/DHCP)

Static IP Addressing

1) **Change laptops to static IP add**

2) **Change laptops to utilize DHCP (dynamic IP addressing)**

Same network components/topology as previous 2 labs
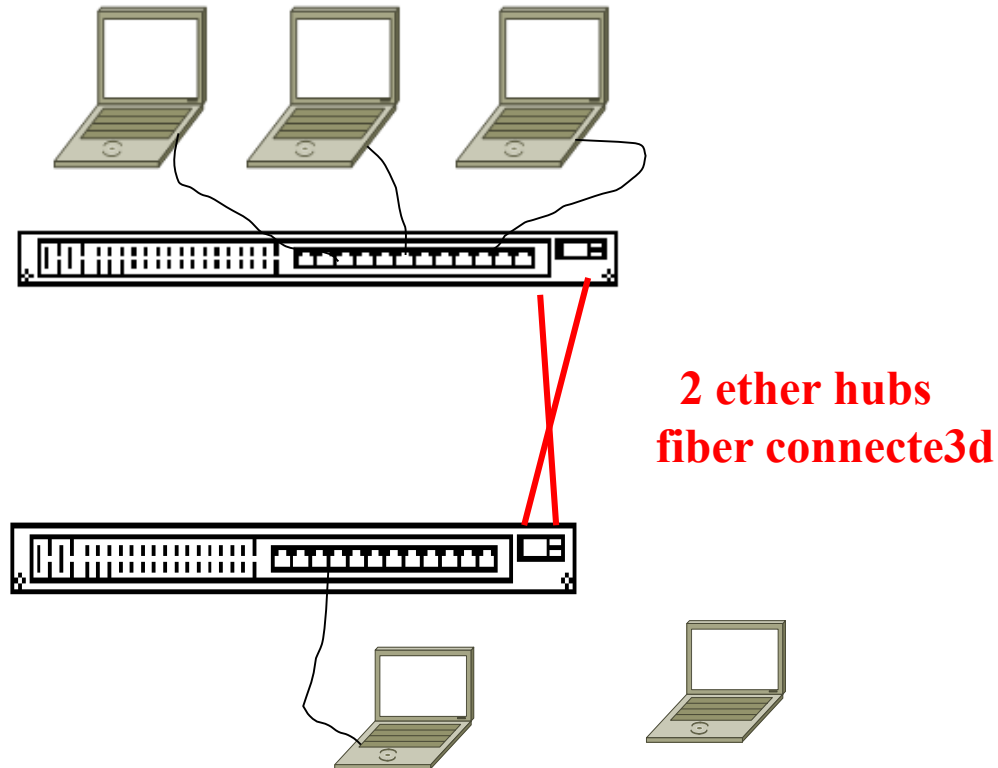
i341 TCP/IP Routing Lab Topology

Lab Setup

Step 1:

Determine IP add, subnet, mask, default G/W

Step 2:

Verify IP Connectivity

**2 ether hubs
fiber connecte3d**

How can you verify IP connectivity ?

DHCP Lab

DHCP Server (Lab/Notes)

Sample configuration for DHCP daemon

Int ether 0
Ip add 192.76.210.1 255.255.255.0

service dhcp
ip dhcp pool 192.76.210.0/24
network 192.76.210.0 255.255.255.0
default-router 192.76.210.1
exit
ip dhcp excluded-address 192.76.210.1 192.76.210.21

I341 Wk 4Lab Deliverable (approx. 1 pg writeup)

Describe how you use static and dynamic (DHCP) IP addressing – when static/DHCP typically used   **40%**

Describe what changes need to be made to infrastructure to support static or DHCP (i.e router, end systems)   **20%**

Describe how to set up a DHCP address pool – and why it is important to specify address ranges (within a net which IP addresses are DHCP, which add's would be static

    40%

Write-up Due to Canvas 10/28 10pm