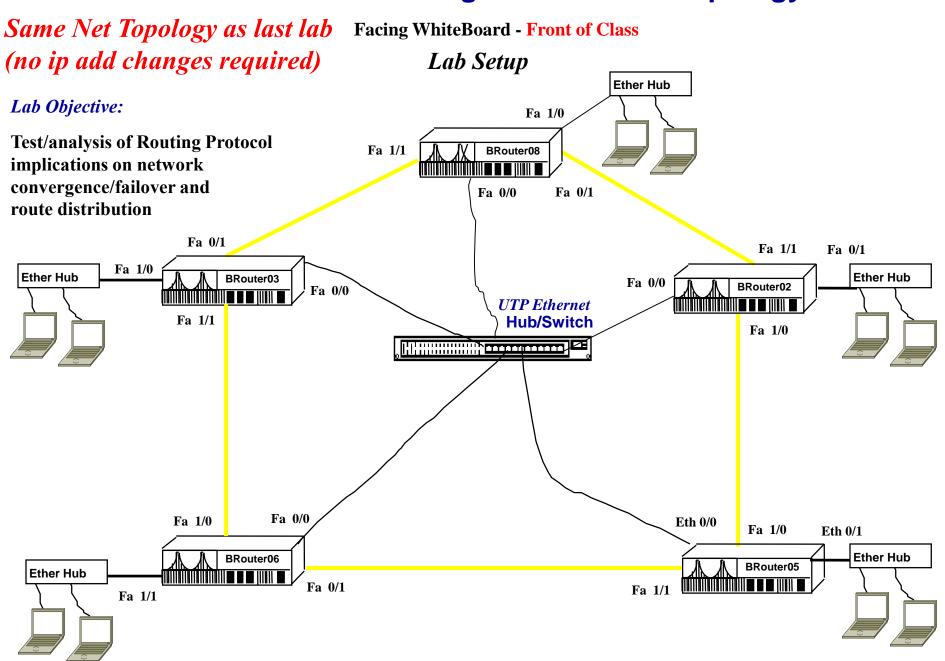
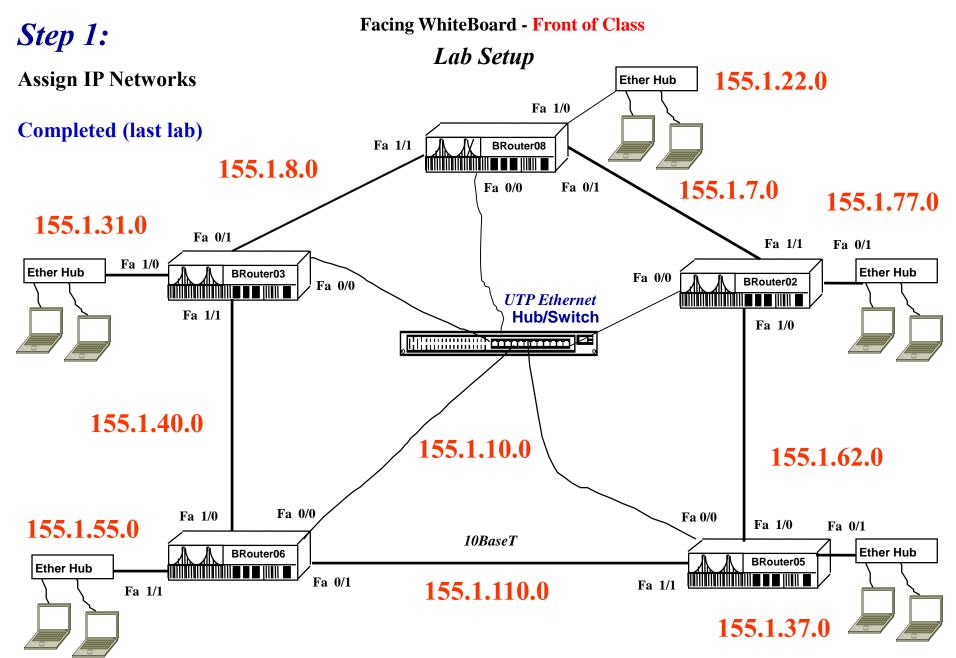
#### i341 TCP/IP Routing Protocol Lab Topology



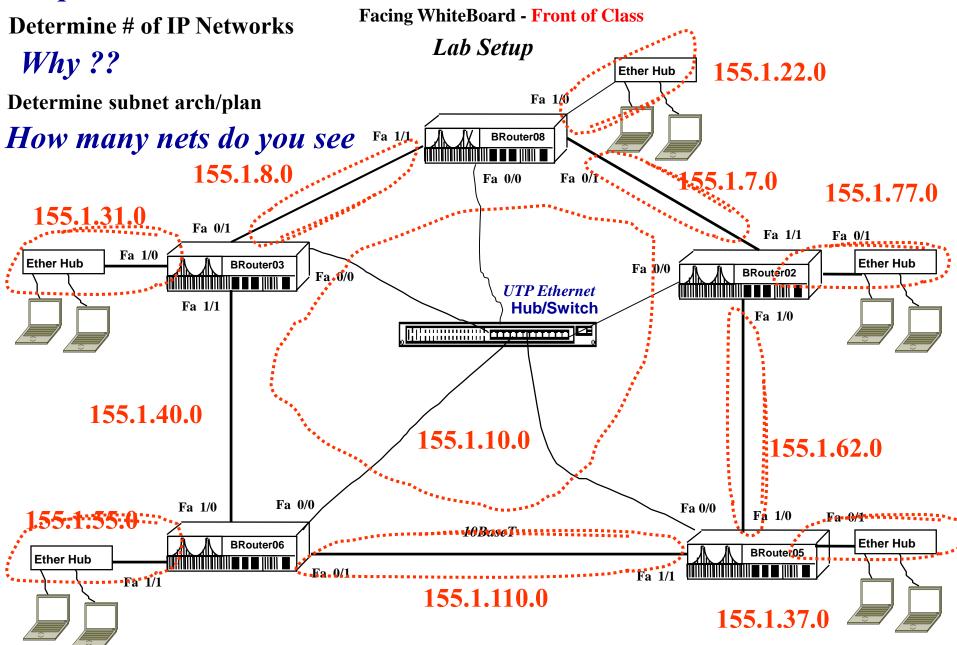
Rev: November, 2016

#### i341 TCP/IP Routing Protocol Lab Topology



### **Step 2:**

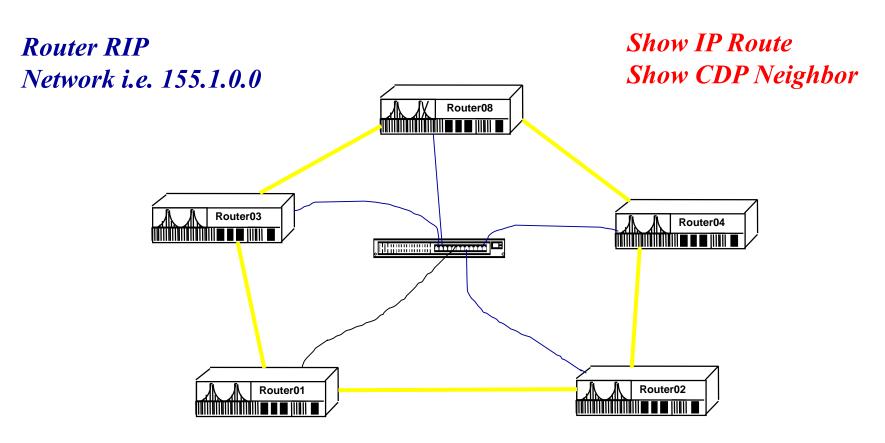
#### i341 TCP/IP Routing Protocol Lab Topology



# Routing Protocol Config Example

FOR RIP - Each router would require:

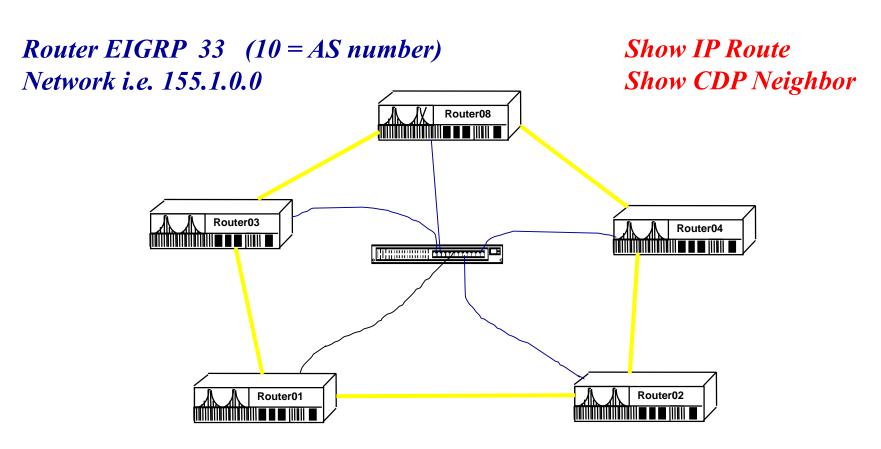
Display Route Table Cmd:



# Routing Protocol Config Example

FOR EIGRP - Each router would require:

Display Route Table Cmd:



## Lab A 1) Turn on RIP

On each router (global not interface command)

Router rip Network 155.1.0.0 <enter>

When config completed – enter following commands:

Show ip route
Ping (to ip add's on other nets)

Will force re-route of traffic – how long to converge (to alt paths)?

## Lab B 2) Turn on EIGRP

On each router (global not interface command)

No Router rip

Router eigrp 10 (where 10 is AS #) <enter>
Network 155.1.0.0 <enter>

When config completed – enter following commands:

Show ip route
Ping (to ip add's on other nets)

Will force re-route of traffic – how long to converge?

## Lab Assignment (due 11/15/16)

**Deliverable:** short write-up (1/2 to 1 page) explaining:

- a) Concept of autonomous system how used in lab 20%
- b) Route/path convergence 30%
- c) Why some routing protocols converge faster than others 20%
- d) Implications of routing protocols (during network failure modes/events) on distributed applications. How would you apply this knowledge learned as a technician or tech mgr 30%

Late submittals will be penalized.