

COMS 4995-1 Networking Laboratory

Cisco Router Tasks

Split into groups of two people.

- a) Select one router and one PC from a rack (PC1 & Router1 etc).
- b) Connect one of the PC cards with the router and setup the interfaces appropriately.
- c) Connect the one of the PC cards to a Hub and the Hub to the CS network. Make sure that the other teams working on the same rack use the same hub
- d) Get a DHCP address from the CS-network, you can ask me for a static one if DHCP fails.
- e) Setup the vty's of the router to have a password that you know.
- f) After setting up the PC and the router try to connect to the router's VTY using ssh to the PC and then telnet to the IP address of the router.
- g) Now that you have access to the router do the following:
 - a) Setup a tftp server on the PC
 - b) Save the startup router configuration to the tftp server
 - c) Save the running configuration to the tftp server
 - d) Upgrade the router's flash (ask me where to get the file).
- h) Modify the running-configuration to have a new enable password. Save the running configuration to a file. What do you notice about the password?
- i) Load from the tftp server the running configuration that you had saved in step g.c to the running configuration of the server.
 - Find the commands that display the router's memory and CPU utilization.
 - How do we find out if an interface is working properly?
 - How do we restrict access to the tftp server?