

Worksheet 8: Firewalls

Name:

Objectives:

To design a firewall which limits traffic flowing to and from the Internet.

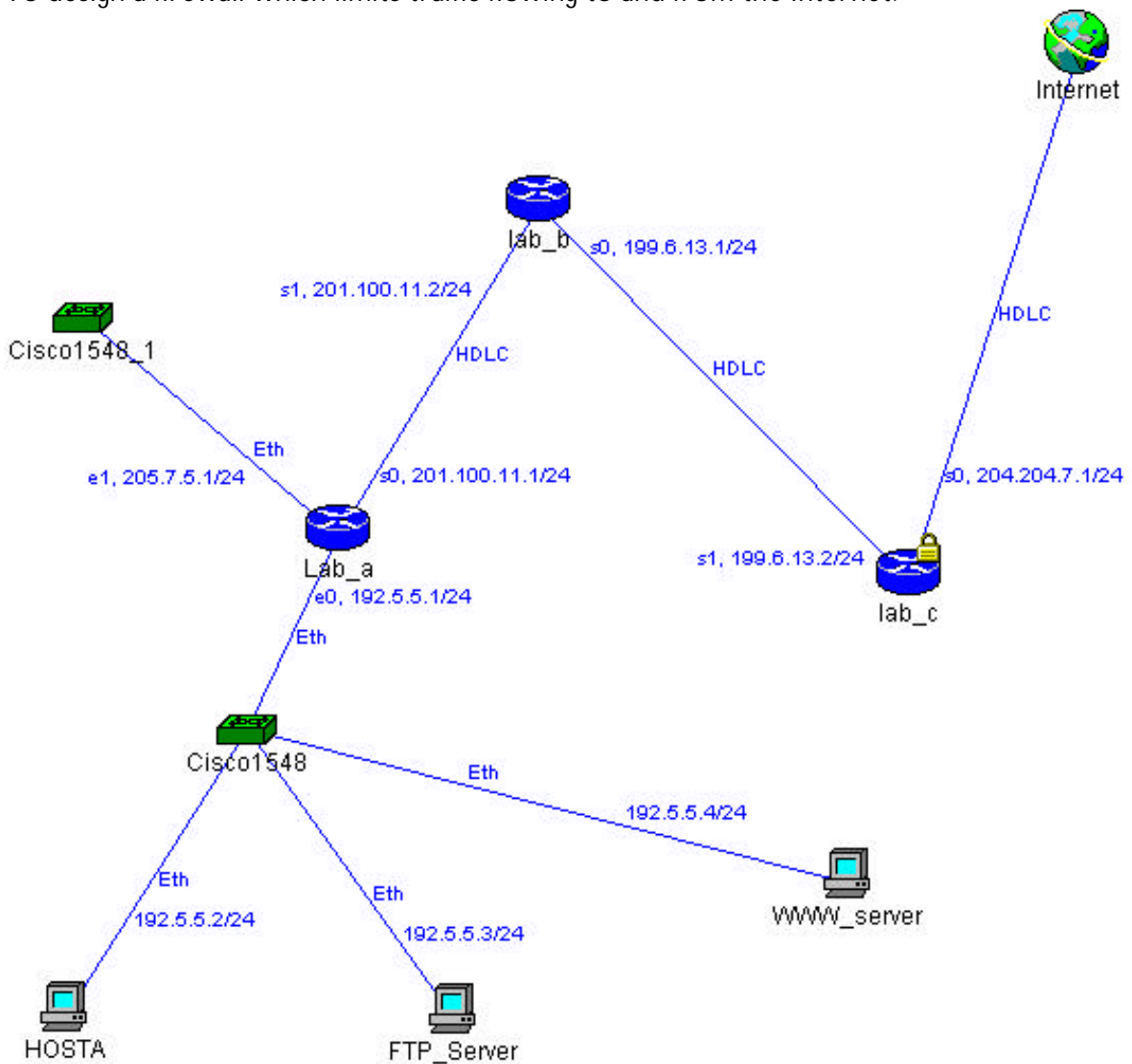


Figure W8.1:

Task:	Notes:
Using Configmaker, draw the schematic of the network, and assign the correct IP addresses and subnet masks.	Completed []
<p>Firewall LAB_C so that only WWW traffic is allowed to flow from the Internet into the network.</p> <p>Firewall LAB_C so that FTP and TELNET access cannot be used from the internet network to the Internet.</p>	Completed []
Which port has the firewall been applied to?	Port:
List the ACL which blocks all the Internet traffic, but allows WWW traffic into the network.	Listing:
List how this ACL is applied to the port.	Listing:
List the ACL which blocks all the Internet traffic, but allows WWW traffic into the network.	Listing:

List how this ACL is applied to the port.	Listing:
Investigate how the router can be setup to detect a Denial-of-Service (DOS) attack. How are the values set, and varied? Which commands are used to protect against this? Which command can be used to implement an audit trail on the router?	Command
Setup a DNS host on at 192.5.5.5, and setup LAB_A, LAB_B and LAB_C to use it as a domain name server. Which command is used on the routers?	Command:
Setup a WWW service on LAB_A, LAB_C and LAB_C. Which command is used?	Command:
Limit the number of simultaneous telnet sessions on LAB_A, LAB_B and LAB_C to two. Which command is used?	Command:
Define the message of the day on LAB_A, LAB_B and LAB_C as: <i>Hello. Welcome to My Network.</i> Which command is used?	Command: