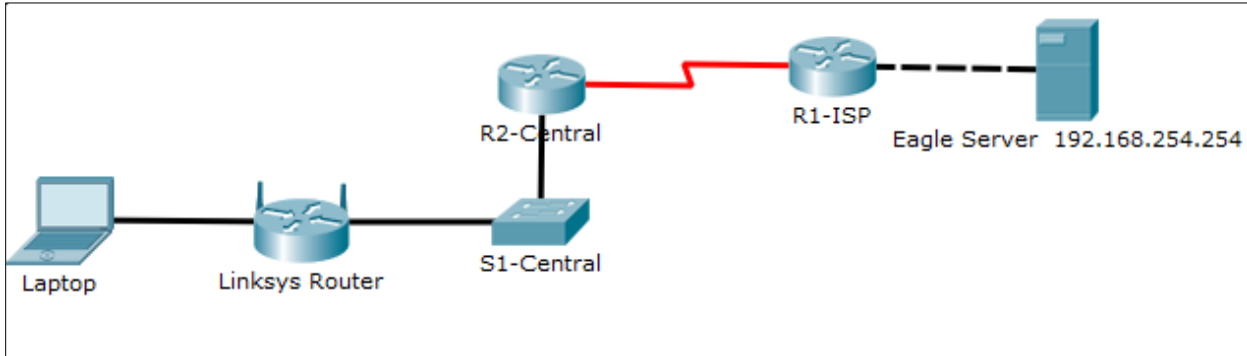


CST8109

Practice Skills Based Assessment

Lab Topology



Part 1

- Reset your Linksys Router
- Connect the WAN port of your router to the Eagle Server Network
- Connect your laptop to port 1 on your router
- Configure your laptop's Ethernet Interface as follows:
 - IP Address: use DHCP
 - Mask: use DHCP
 - Default Gateway: use DHCP
 - DNS Server: 192.168.254.254
- Confirm that you can ping the Eagle Server
- Generate a Wireshark capture which includes:
 - Trace Route to 10.10.10.6
 - ARP request and Reply
 - DNS request and Reply
 - 3-way Handshake
 - HTTP GET

You may want to use a batch file to help with the capture.

1. How many routers are there between your laptop and the 10.10.10.6? _____

2. List the IP address of each router between your laptop and 10.10.10.6.

3. What is the MAC address of your gateway? _____

4. What are Source and Destination IP and port numbers used in the DNS Request?

Source IP: _____

Source Port: _____

Destination IP: _____

Destination Port: _____

5. What is the destination MAC address of the ARP Request? _____

6. What is the Ethertype in the Ethernet frame of the DNS Request? _____

7. What is the IP address provided in the DNS response? _____