

Evaluation Criteria for Lab 9

HSRP + VRRP: Cisco v7 Lab 6.1

Notes:

1. The first requirement to receive any marks for this lab is to append your Algonquin network ID to both the hostname and the VLANs specified in the labs. For example for switch DLS1, Anderson would use DLS1-ande0001, and VLAN100 would be Servers-ande0001.
2. Only 2 hosts are actually necessary: VLAN 10 (Host A) and 40 ("SQL Server"). Use gateways and SVI's as additional ping targets if you only have 2 PCs available.
3. Ensure that all your L3 switches are running IOS 15. IOS 12 does **not** have VRRP.
4. There's a few glitches in the Cisco lab:
 - Sub-steps may be labeled incorrectly (a, a, b, c; or a, b, e)
 - "Step 12: Configure HSRP interface tracking" is **not** interface tracking!
It's object tracking where the object just happens to be an interface.
5. Please have all relevant details already visible on your screen before signing up for a demo! (Copy & paste to notepad if you want to continue working.)
6. Configurations must be completely erased from the lab equipment (ref: Cisco v7 Labs 1.1 and 1.2). The first time you forget or are unsuccessful in erasing your configs, you forfeit half the marks for the lab. The second & subsequent times you forget or are unsuccessful in erasing your configs, you forfeit **all** the marks for the lab.

Marking Rubric

- [1 mark; Basic HSRP] Upon completing "Step 9: Verify connectivity between VLANs", demo and prove correct HSRP functionality for all VLANs.
- [1 mark; L2-L3 matching] Upon completing Step 9, add the following:
 - Set all switches to **RSTP**
 - Determine the L2 topology and make it match the L3 topology exactly for every VLAN
 - Confirm everything still works properly, including HSRP
 - Demo and prove that your setup is complete and correct
- [1 mark; HSRP Fail-over] Watch the results from "Step 10: Verify HSRP functionally" and "Step 12: Configure HSRP interface tracking", identify proof of HSRP fail-over time. How long is it?? You can skip the Challenge for MD5 authentication.
- [1 mark; VRRP] Upon completing Part 2, "Step 12: Configure VRRP tracking", demo and prove correct VRRP functionality for all VLANs.
- [0 marks; VRRP non-virtual IP] Determine what are the correct IP addresses for using real IP's with VRRP. Complete the challenge section of VRRP

Total: 4 marks