

Evaluation Criteria for Lab 8

IPv6 & DHCP: full Cisco v7 Lab 5.2

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. **HOST D** is **not** actually used or necessary.
3. Make sure all your devices use IOS 15 or higher! Use (all) devices as ping/telnet targets when testing IPv6 connectivity.
4. 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.)
5. 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; Step 8] Based on output from a Win 7 CLI command, identify info that proves the PC received configuration info from the (Stateless) DHCP server.
- [1 marks; Step 8] Prove, with output from a suitable Win7 command, whether or not our lab PCs have "privacy extensions" enabled.
- [1 mark; start of Step 11] Based on output from a Win 7 CLI command, identify info that proves successful configuration of both SLAAC and Stateful DHCP services.
- [1 mark; end of Step 11] Based on output from a Win 7 CLI command, identify info that proves successful configuration of only Stateful DHCP services (no SLAAC).
- [Challenge; optional] Redo the lab but with Wireshark running hosts A and B. Pause & save the wireshark captures after each key step (e.g. step 9, after obtaining DHCP addresses in step 11, and after step 12). Do the captures fit your understanding of IPv6 and DHCP operation?

Total: 4 marks

Tips

- Since we're using DHCP, don't forget to use portfast on all ports fa0/6 with PCs!
- Sometimes MS-Windows is stubborn about not letting go of a previously used address. One option is to "reboot" the NIC: get to Change Adapter Settings, right click the NIC, Disable, count to 5, then re-enable.
- Try using "ipconfig /all" instead of "ipconfig" and find some addition info that's *useful!*
- Please note the comment in Step 11 (page 7) that "*the no-autoconfig parameter is hidden*, so it will not appear in help or tab-completion" !