

CSC387 Lab 00 – How to Do Labs in CSC 387

Instructions

1. Prepare for the lab – Open the lab document from D2L found in the ‘Content’ section. Start a blank word document for your lab answers. Start your lab environment (ex. Packet Tracer or the IA Lab).
2. Begin at the beginning with the ‘Instructions’ section. Work from the top down in the document. DO NOT record screenshots yet. If you have questions while working through these steps please reach out to the instructor.

Instructions

It's time to start configuring some of the virtual equipment. The previous administrator did not finish configuring these devices. In fact, when you go ahead and start from a blank slate, that would be great!

The following should be completed on Packet Tracer. Please take a screen shot of each of the Verification Steps (below) and submit in a labeled single word document using the screenshot guide in the class content on D2L. Make sure your device names are visible in the screenshot! Don't forget to save your Packet Tracer file.

Network Diagram



3. While working through the steps you will come across some yellow/orange dividers labeled as ‘Verification Step #’. When you reach one of these, stop working on the ‘Instructions’ and scroll to the bottom of the lab document to the

'Verification Steps' portion of the lab usually found at the bottom.

Basic IOS Configuration

1. Configure the following passwords on the devices:
 - a. Console: cisco
 - b. VTY: retnet
 - c. Enable: cisco
 - d. Use the command to encrypt all passwords
2. Set a banner message of the day on each of the routers to give a meaningful description as to what they are.

Physical Lab Instructions

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3. Set a hostname on each of your routers to <firstname>_<lastname>_01 and <firstname>_<lastname>_02 (e.g. scott_paulsen_01 and scott_paulsen_02).
4. Create a user account for yourself along with a password.
 - a. Configure the console, auxiliary, and VTY lines to use the local login authentication.

Verification Step 1

4. Complete the 'Verification Step' number by taking a screenshot of the requested information, following the Screenshot Standards found in D2L. If something is not working as stated in the 'Verification Step', start troubleshooting the previous 'Instruction' steps. If you have questions, please reach out to the professor. Once you have captured the necessary screenshot and pasted it into your awaiting answers word document, move back up to the 'Instructions' section where you left off and continue working the lab until the next

‘Verification Step’ divider.

Verification Steps

1. When you log out of the router, you should be prompted to enter your username and password. At this point, you will also see the MOTD. Lastly, when entering privileged exec mode, you will also need a password.
2. Firstname_lastname_01 and firstname_lastname_02 should be able to ping each other with their WAN interfaces (gig 0/0/0).
3. From privileged exec (not in config mode), type some sort of command that does not exist to see if it attempts to perform a DNS lookup. It'll take a while if it does, you'll know.
4. From the laptop, open the command prompt and do an ipconfig /all. When you find your Ethernet Adapter, you should see that DHCP is enabled and that you received an IPv4 address. If you have VMWare installed, make sure you are looking at your actual physical adapter, not a virtual one.
5. From one of the laptops, telnet into the router and show that you are able to successfully log in.
6. Verify you are able to SSH from your laptop to the router that you have configured SSH access on. Show that you can log in.

5. Once you have completed all ‘Instructions’ and all ‘Verification Steps’, double check that you have all the required screenshots, and they show all the information required. When you are ready, save and submit your screenshot word doc to the D2L dropbox for that lab.

Verification Step 1

Verification Steps

1. Take a screenshot of your favorite or any piece of network equipment you have worked with or would like to work with.

What to Turn In

When you have finished the lab please turn in your answers word doc to D2L.