# CET4773 Lab3: CISCO Internetworking Operating System II

### **OBJECTIVES**

- 1. Reinforce basic skills for configuring CISCO devices
- 2. Reinforce basic CISCO IOS commands.
- 3. Create, edit, and configure simple network topologies.

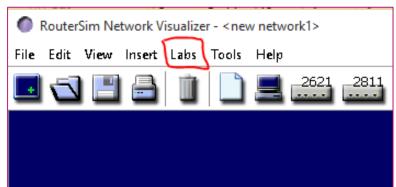
## BACKGROUND

The IOS command-line interface (CLI) provides a fixed set of multiple-word commands. The set available is determined by the "mode" (User EXEC Mode or Privileged EXEC Mode) and the privilege level of the current user. "Global configuration mode" (the one you get after entering the configuration terminal command) provides commands to change the system's configuration. The "interface configuration mode" (the one after you enter the interface <interface-name> <0-1> command) provides commands to change the configuration of a particular interface. Through the CLI, the commands available to each privilege level can be defined. You are using RouterSim's Network Visualizer to practice more IOS commands.

## **RUNNING ROUTERSIM'S NETWORK VISUALIZER 8**

 To open the material you will work today, you need to select the option "Labs" on the main menu. Then select the option "Documentation".





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Contents Search	Introduction to CCNA Network Visualizer 8.0 Labs	~
CCNA Network Visualizer 8.0 Network Environment ICND1 (CCENT) Custom Labs Net Assessment Practice Scenarios	This program contains all the labs available for CCNA® Network Visualizer® 8.0 Labs. Navigation A tree list on the left side of this screen allows you to quickly navigate from one section and lab topic to another. Click on a <i>book</i> to expand the list of labs for that section. You will then see a "?" icon to the left of each topic. Click a topic title to display lab content on the right side of the screen.	

NOTE: The documentation does not run well in all the browser. Actually, the only one that is guaranteed to work is MS Internet explorer. If any other browser has been opened, copy the URL (the one circled in the above image), open **Internet Explorer**, and paste the URL.

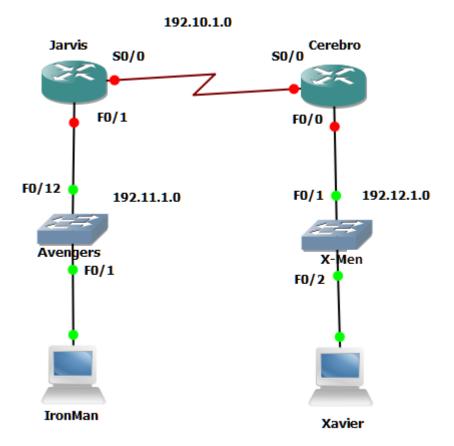
😪 CCNA Network Visualizer 8.0 Labs		
🔆 Network Environment		
(ICND1 (CCENT)		
Cisco Internetworking Operating System (IOS)		
2 Lab 1.1: RouterSim and Cisco Devices		
Lab 1.2: Logging In and Out of a Cisco Router		
Lab 1.3: Erasing an Existing Configuration		
2 Lab 1.4: Exploring Modes		
2 Lab 1.5: Overview of Router Modes		
Lab 1.6: Using the Help and Editing		
Lab 1.7: Supported Commands		
Lab 1.8: Using Shortcut Commands and Tab Completion		
2 Lab 1.9: Saving a Configuration		
2 Lab 1.10: Setting Passwords		
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Lab 1.14: Configuring Interfaces for the 2811 Router		
Lab 1.15: Configuring Router Interfaces for the 3560 Switch		
Lab1.16: Bringing Up an Interface		
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log Managing and Troubleshooting a Cisco Internetwork		
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Internet Explorer restricted this webpage from running scripts or ActiveX controls.

### QUESTIONS TO ANSWER AND SUBMIT

- 1. Imagine you are in the user mode of a switch CLI, what commands will you use to set the enable secret password to ciscopress? Take a screenshot of the running-configuration file where the enable secret password is shown.
- 2. How do you remove an enable secret password? Assume you are in the privileged mode. Provide the sequence of commands need to achieve this.
- 3. Again, assume you are in the privileged mode. Provide the sequence of commands need to configure the serial interface 0/0/1 as DCE with the clock rate 9600 bit per second.
- 4. You have learn about the **ping** and the **traceroute** commands use to test or troubleshooting a network. Using you own words explain what is the main difference between these two commands.
- 5. When talking about CISCO devices, what is VTP? You might neet to google it.
- 6. Create a new project. Name it following the pattern **Network1.<your lastname>.rsm**, for example **Network1.Mendoza.rsm**. Create the network topology presented below using only 2621 routers and 2950 switches. This toplogy should meet the following requirements,:
  - Jarvis F0/1 interface should have assigned the second available IP address in the subnet assuming the default mask
  - Jarvis SO/O interface should have assigned the second available IP address in the subnet assuming the default mask
  - **Cerebro** S0/0 interface should have assigned the first available IP address in the subnet assuming the default mask
  - **Cerebro** F0/0 interface should have assigned the first available IP address in the subnet assuming the default mask
  - Avengers switch should have assigned the last available IP address in the subnet assuming the default mask
  - X-Men switch should have assigned the last available IP address in the subnet assuming the default mask
  - IronMan should have assigned the first available IP address in the subnet assuming the default mask
  - Xavier should have assigned the second available IP address in the subnet assuming the default mask



7. Submit your new project a long with the answer to the questions above