

Critical Thinking Assignment 6: Labs Lessons 7 and 13

Alexander Ricciardi

Colorado State University Global

IT315-2: Introduction to Networks

Dr. Sheryl Drake

January 26, 2025

Critical Thinking Assignment 6: Labs Lessons 7 and 13

This documentation is part of the Critical Thinking 6 Assignment from ITS315: Introduction to Networks at Colorado State University Global.

The Assignment Direction:

Module #6: uCertify Lab Simulations

For this assignment, you will complete multiple lab simulations. Activities include identifying network connection types, connecting networks to the internet, configuring routers, etc. You will take a screenshot upon completion of each lab and include the screenshots in the submitted assignment.

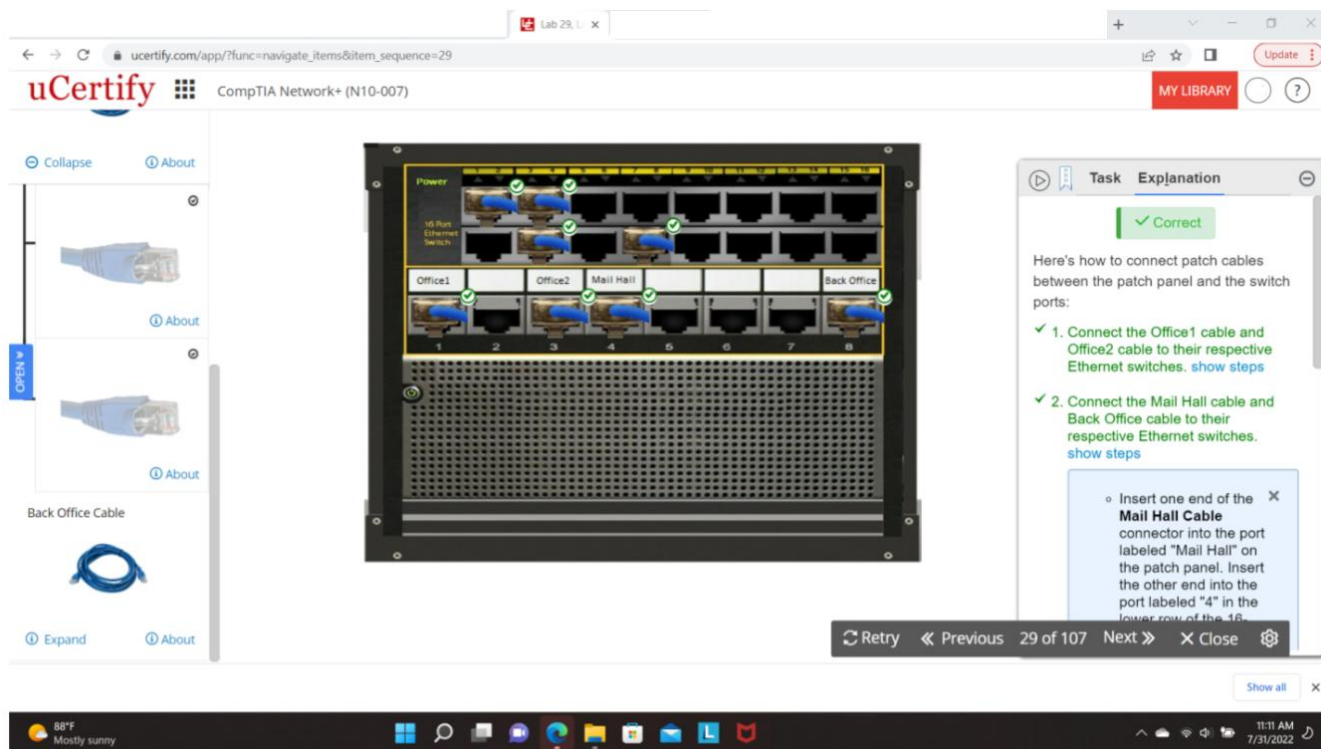
Access uCertify and login, go to Labs, and complete the tasks in the following lab simulations:

- 7.1.1 Identifying WAN connection types
- 7.2.2 Identifying MPLS network elements
- 7.2.3 Connecting cable Internet access for your network
- 7.2.4 Adding static routes in RRAS
- 13.1.1 Changing passwords for the router

After completing the task, click Submit >> Evaluate >> Record my answer to record your answer. Take a screenshot of each of the labs and paste the screenshot into a Word document. The document should have a title page that includes your name, date, school name, section, course name, and instructor name.

Submit the assignment in Canvas.

Please ensure your screenshot includes your name, date, and timestamp as shown in the image below.



Screenshots

Figure 1
7.1.1 Identifying WAN connection types

Correct Answer Compare Your Answer

Type	Description
1. Dedicated leased line	A. Allows multiple customers to share a service provider's bandwidth
2. Packet Switching	B. Establishes a channel before a call is made between users
3. Circuit Switching	C. Interconnects two sites where no sharing of bandwidth takes place

Activity Explanation

✓ Correct

Types of WAN connections are described below:

- ✓ **Dedicated leased line:** Interconnects two sites where no sharing of bandwidth takes place
- ✓ **Packet Switching:** Allows multiple customers to share a service provider's bandwidth
- ✓ **Circuit Switching:** Establishes a channel before a call is made between users

Lesson

Wide Area Networks (WANs)

WAN Properties

RESET PREVIOUS 49 of 107 NEXT RETRY SETTINGS CLOSE

6:05 PM 1/26/2025

Figure 2
7.2.2 Identifying MPLS network elements

Correct Answer Compare Your Answer

Element	Description
1. CPE	A. A router that uses static or dynamic routing protocols but doesn't run MPLS
2. P	B. A service provider internal router that doesn't directly interface with customer routers
3. LSR	C. A router that makes frame-forwarding decisions based on labels applied to frames
4. CE	D. A device residing at a customer site

Activity Explanation

✓ Correct

MPLS network elements are described below:

- ✓ **CE (Customer Edge):** A router that uses static or dynamic routing protocols but doesn't run MPLS
- ✓ **P (Provider):** A service provider internal router that doesn't directly interface with the customer routers
- ✓ **LSR (Label Switch Router):** A router that makes frame-forwarding decisions based on labels applied to frames
- ✓ **CPE (Customer Premise Equipment):** A device residing at a customer site

Lesson

Wide Area Networks (WANs)

WAN Technologies

RESET PREVIOUS 51 of 107 NEXT RETRY SETTINGS CLOSE

6:06 PM 1/26/2025

Figure 3
 7.2.3 Connecting cable Internet access for your network

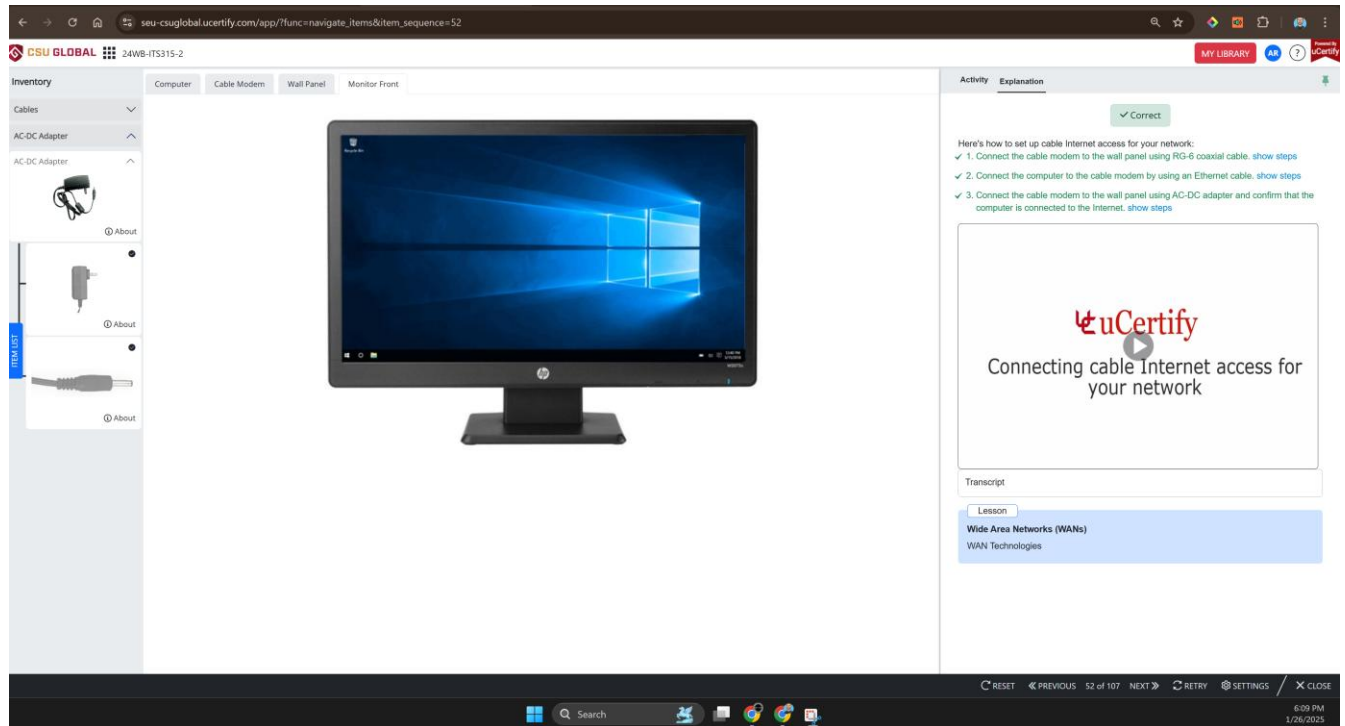


Figure 4
 7.2.4 Adding static routes in RRAS

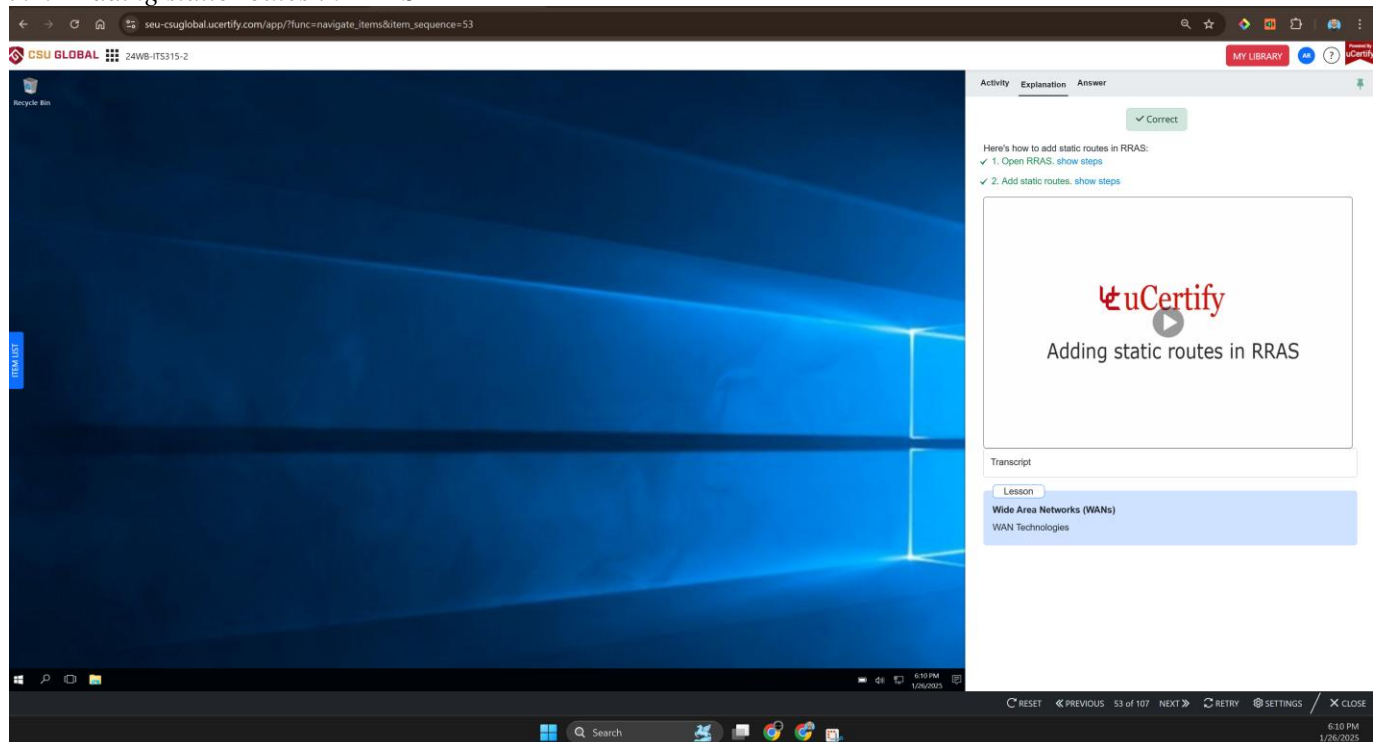
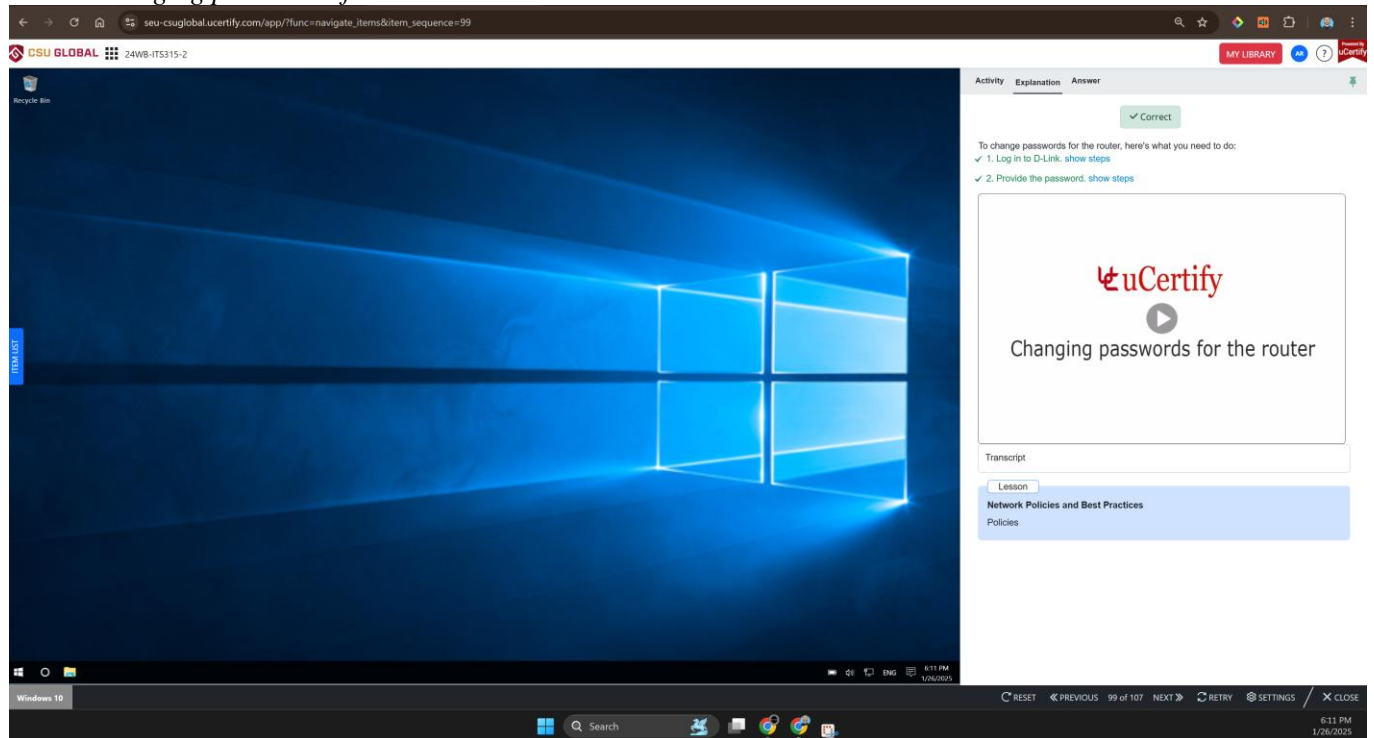


Figure 5
13.1.1 Changing passwords for the router



Figures 1 through 5 show that all the lab questions were answered correctly.