

Solution of Lab 03 and 04

Lab – 03

1. Use 'simulation mode' to analyze the various traffic being sent throughout the network.

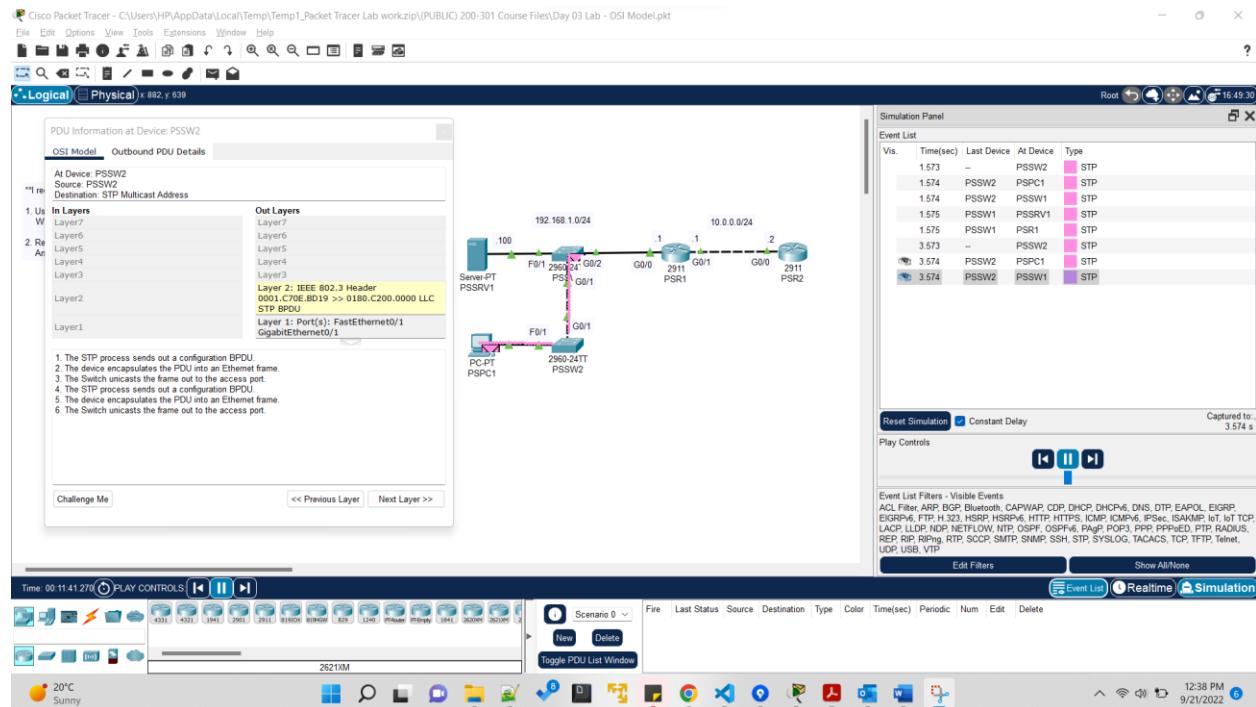
What layers of the OSI model are being used?

2. Release and renew PC1's IP address to generate some Layer 7 traffic.

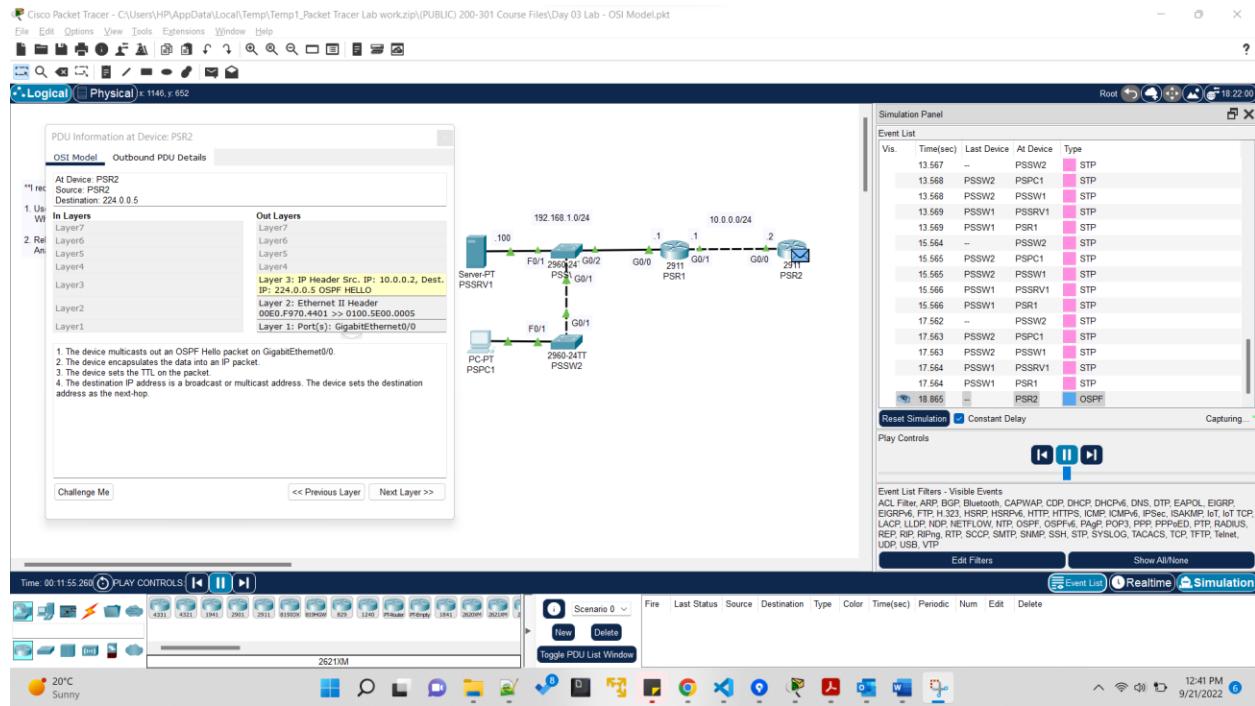
Analyze the traffic with simulation mode. – Screenshots attached.

Answer

- a. At Switch 2 – **Layer2** has been used with **STP** (Spanning Tree Protocol)



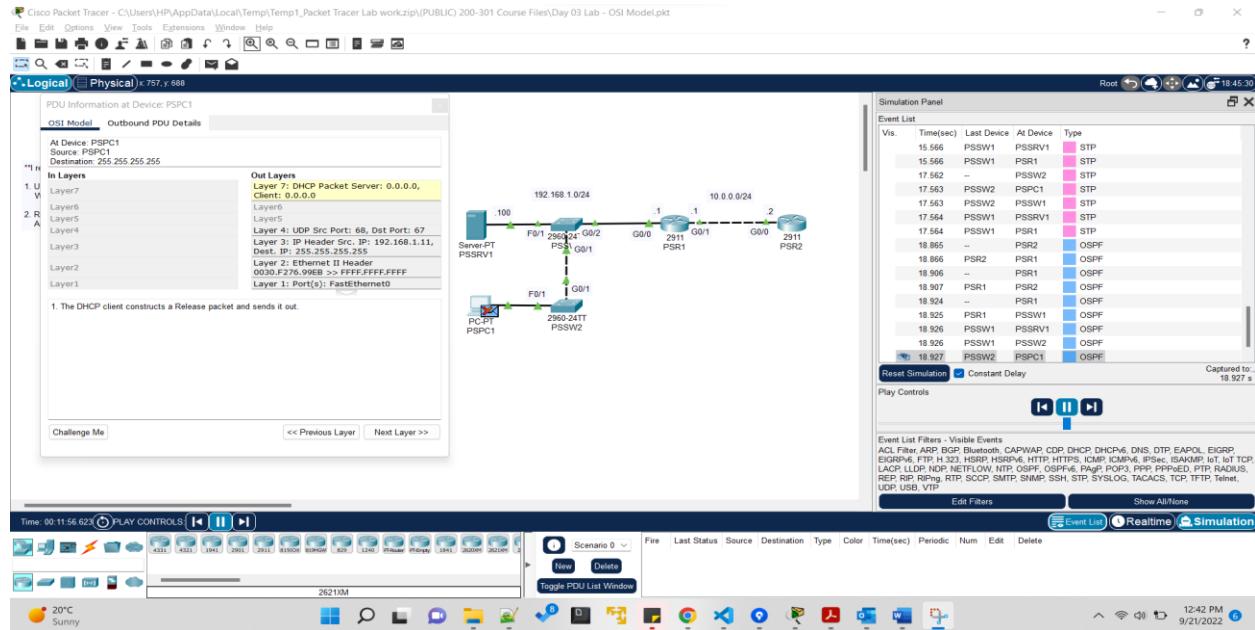
- b. At router – **Layer3** has been used with **OSPF** protocol. It used to discover best path to different networks.



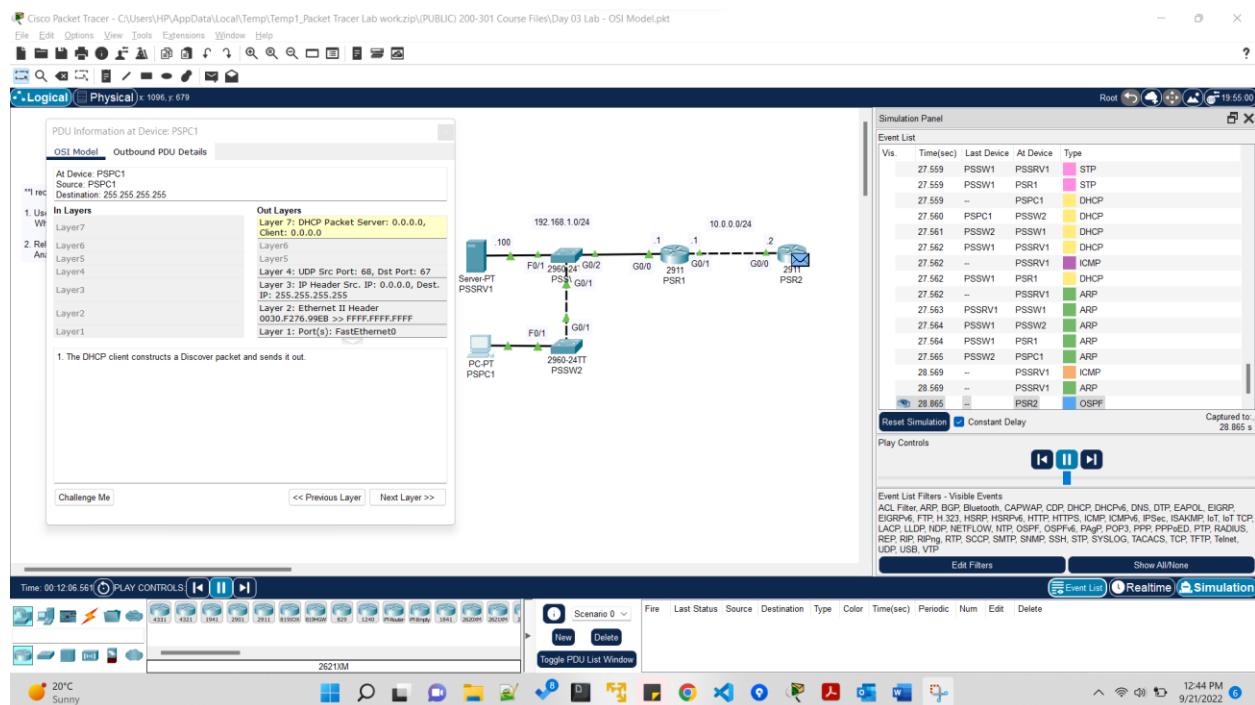
- c. From **PC**, we will use **DHCP** (Dynamic host control Protocol) to assign IP address dynamically. This Protocol uses **Layer 7**

Now it is showing, Layer 7 for the DHCP protocol.

So for the **DHCP** protocol – we are using **TCP/IP model** and It is using **Layer1,2,3,4 and 7**.



After Renewing the ip address with Ipconfig /renew

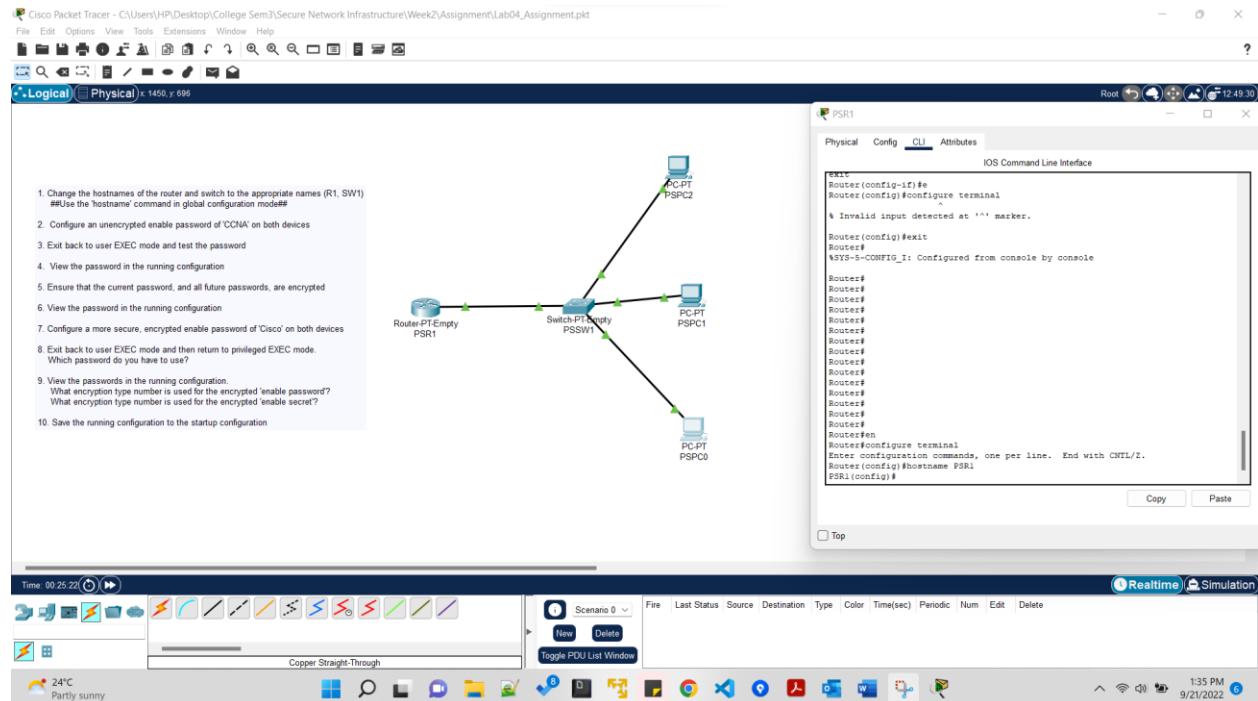


Lab4

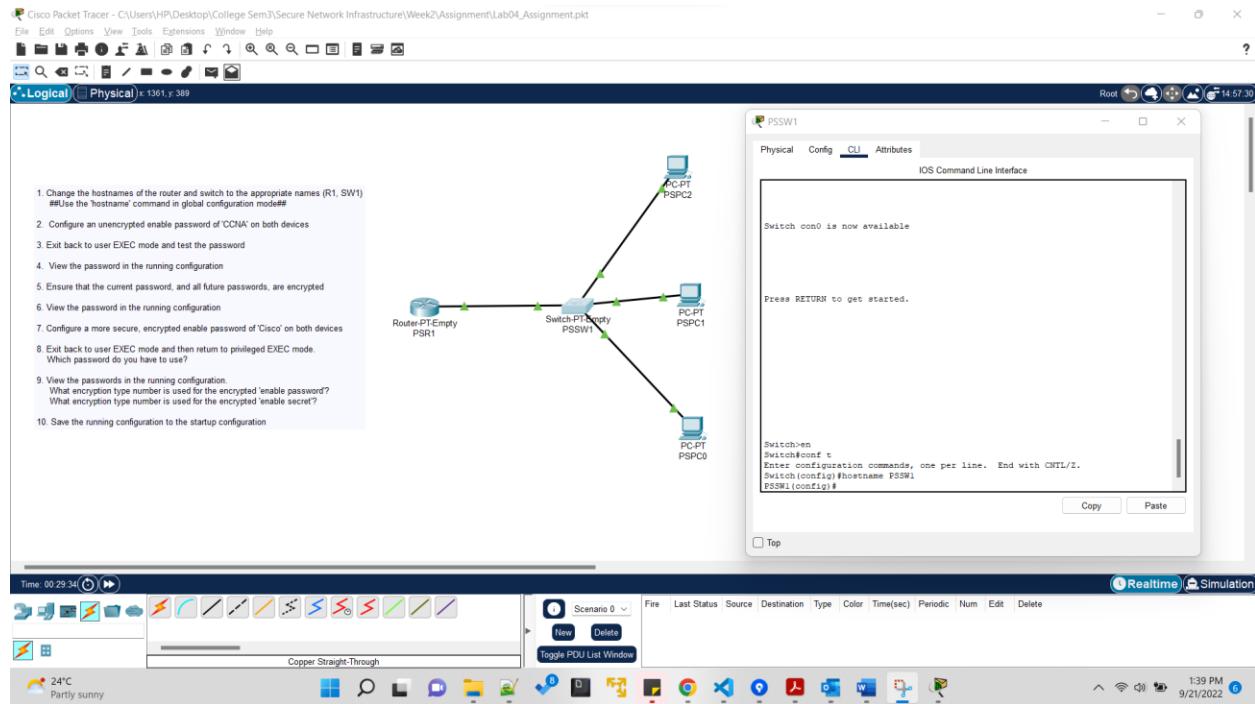
All the questions are answered serial wise below with screenshot.

**1. Change the hostnames of the router and switch to the appropriate names (R1, SW1)
##Use the 'hostname' command in global configuration mode##**

Routers rename

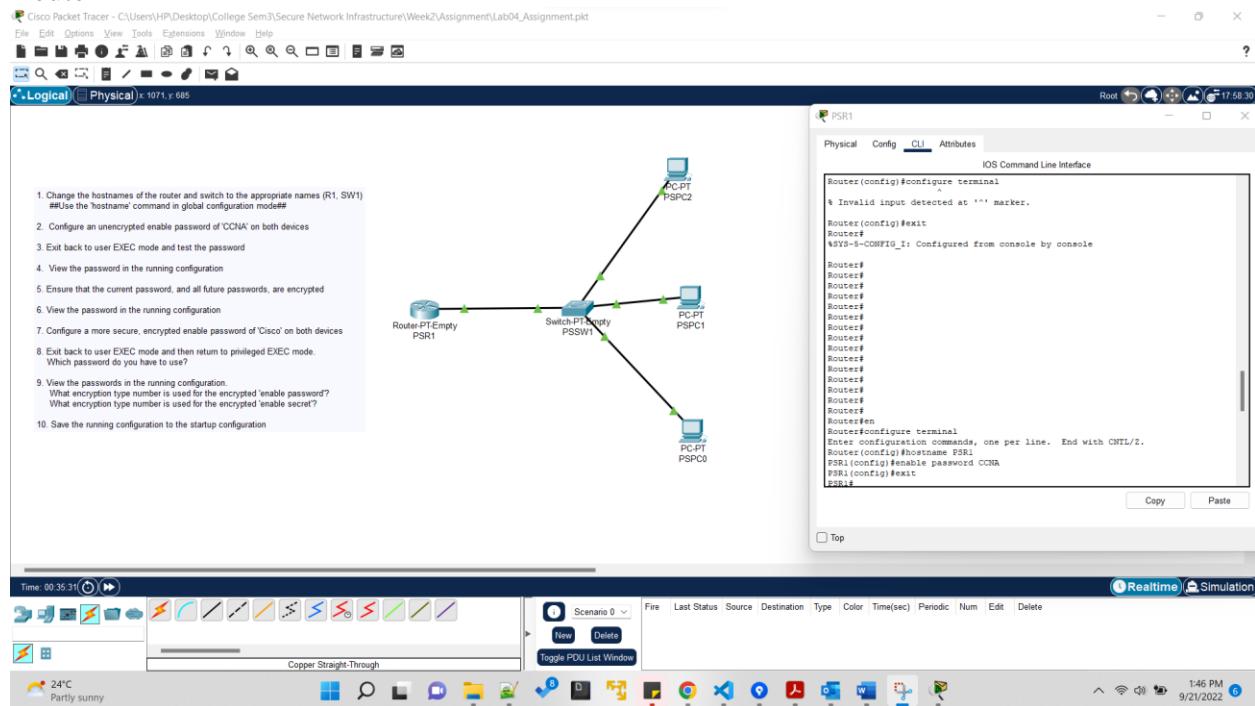


Switch rename –

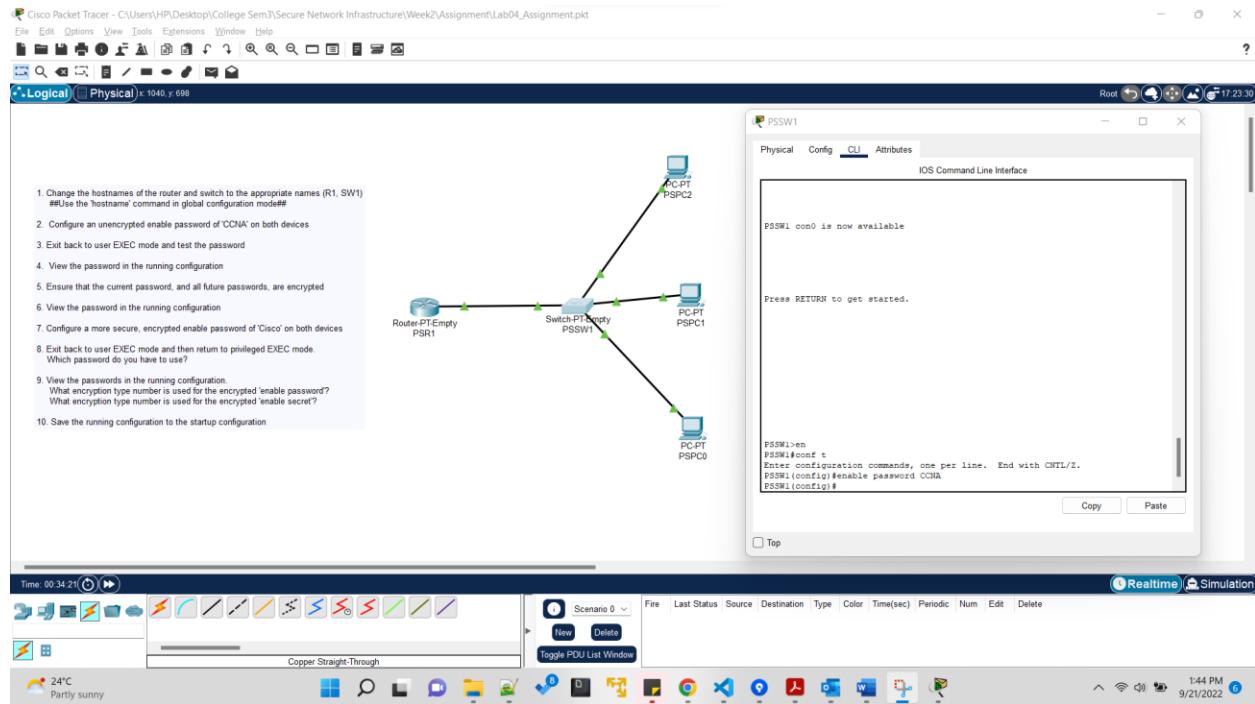


2. Configure an unencrypted enable password of 'CCNA' on both devices

Router

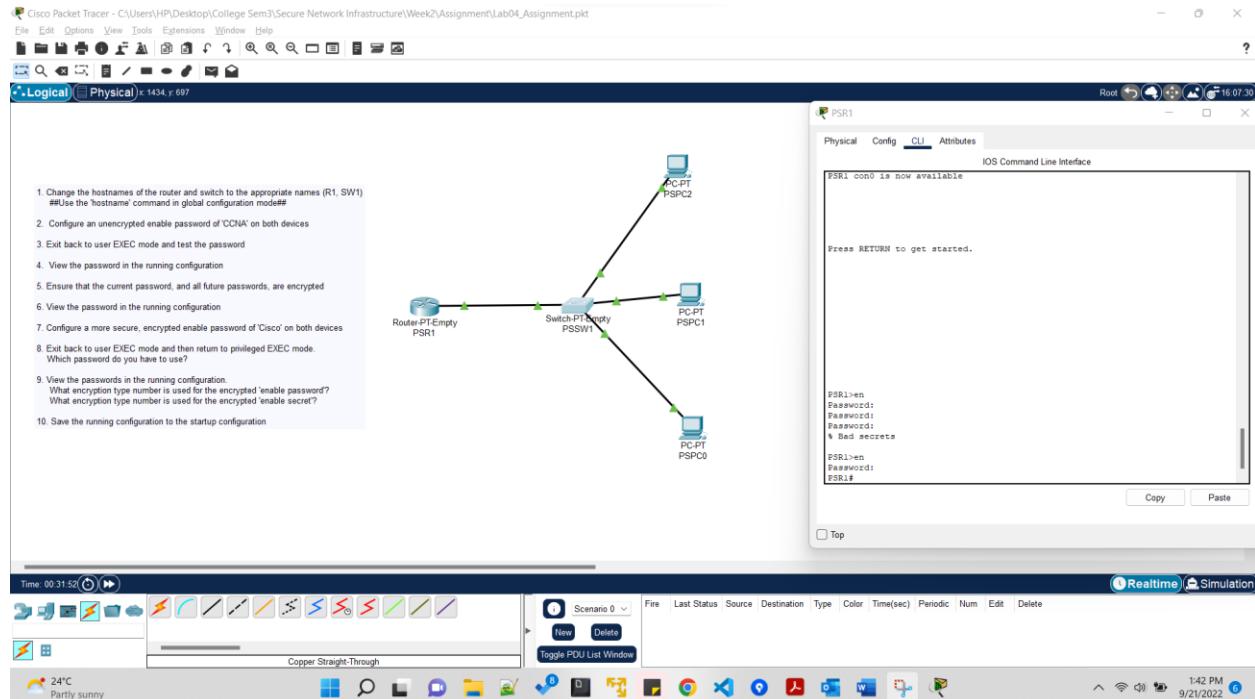


Switch

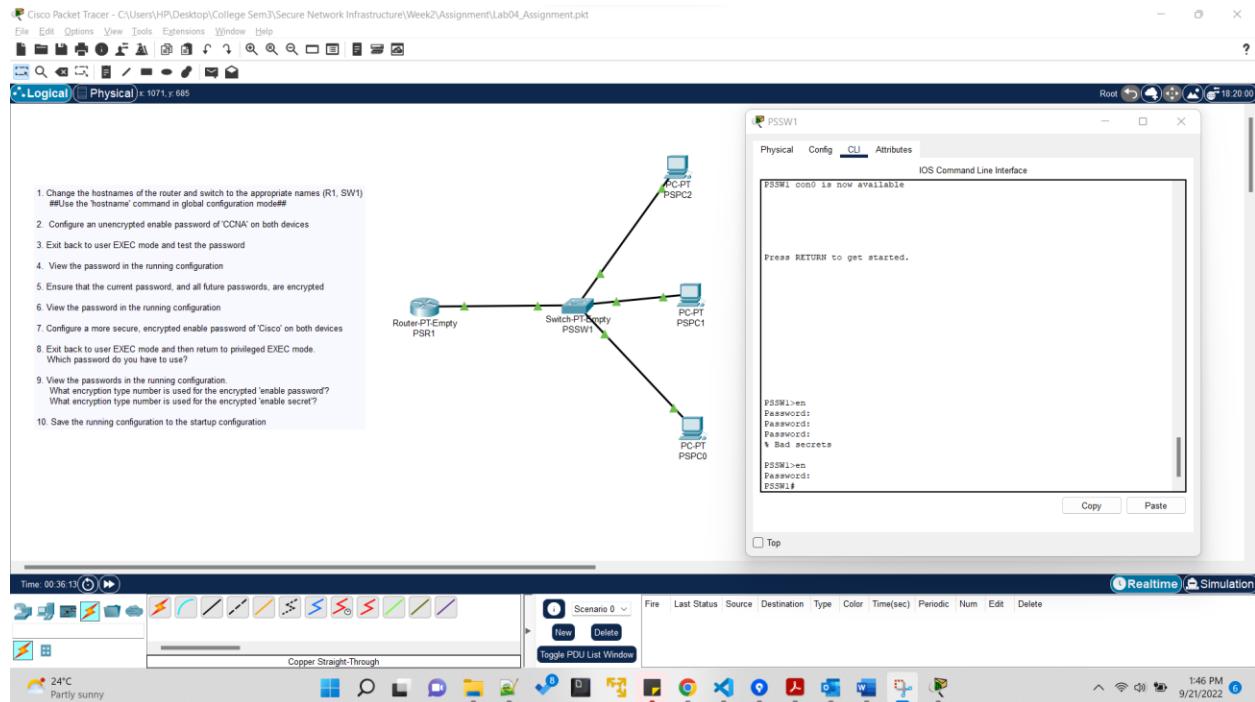


3. Exit back to user EXEC mode and test the password

Router

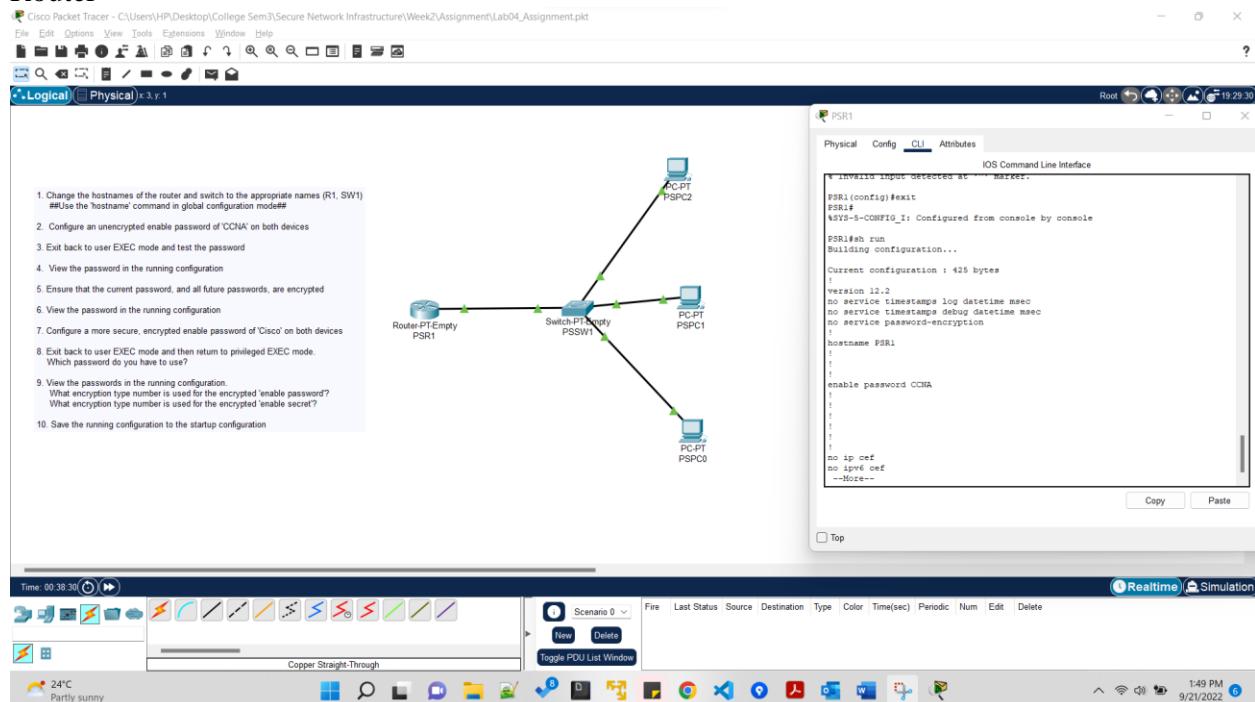


Switch

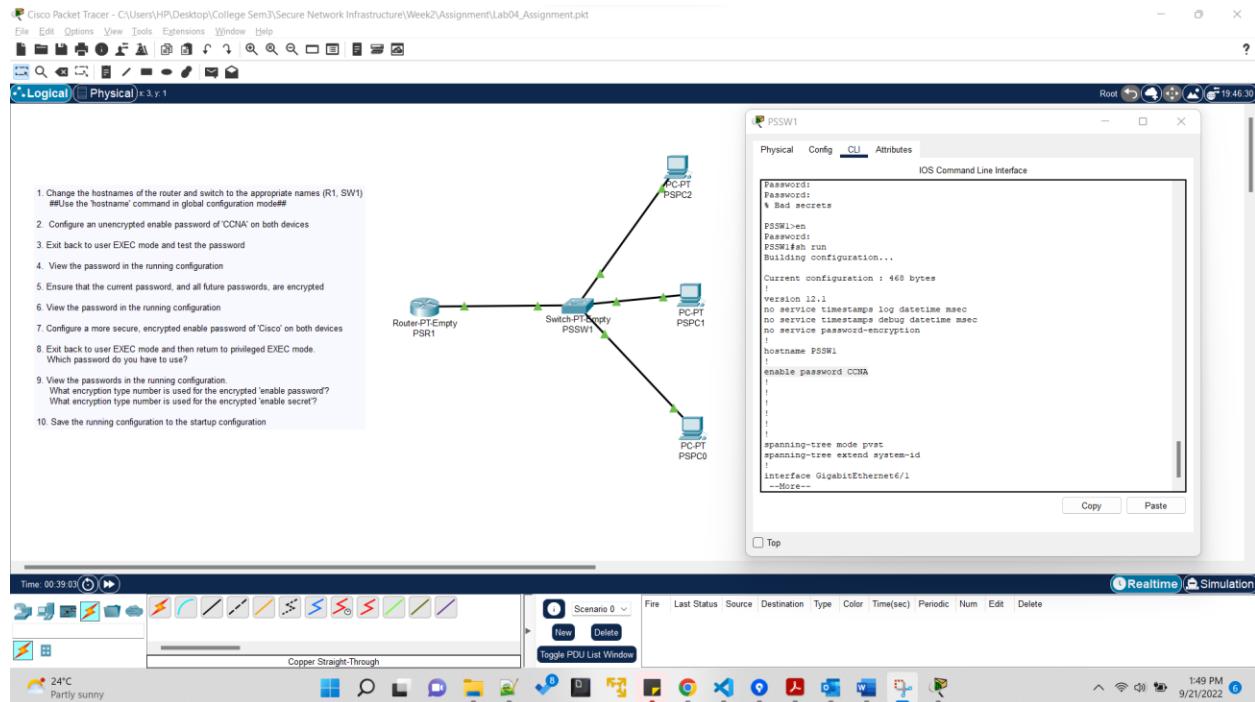


4. View the password in the running configuration.

Router

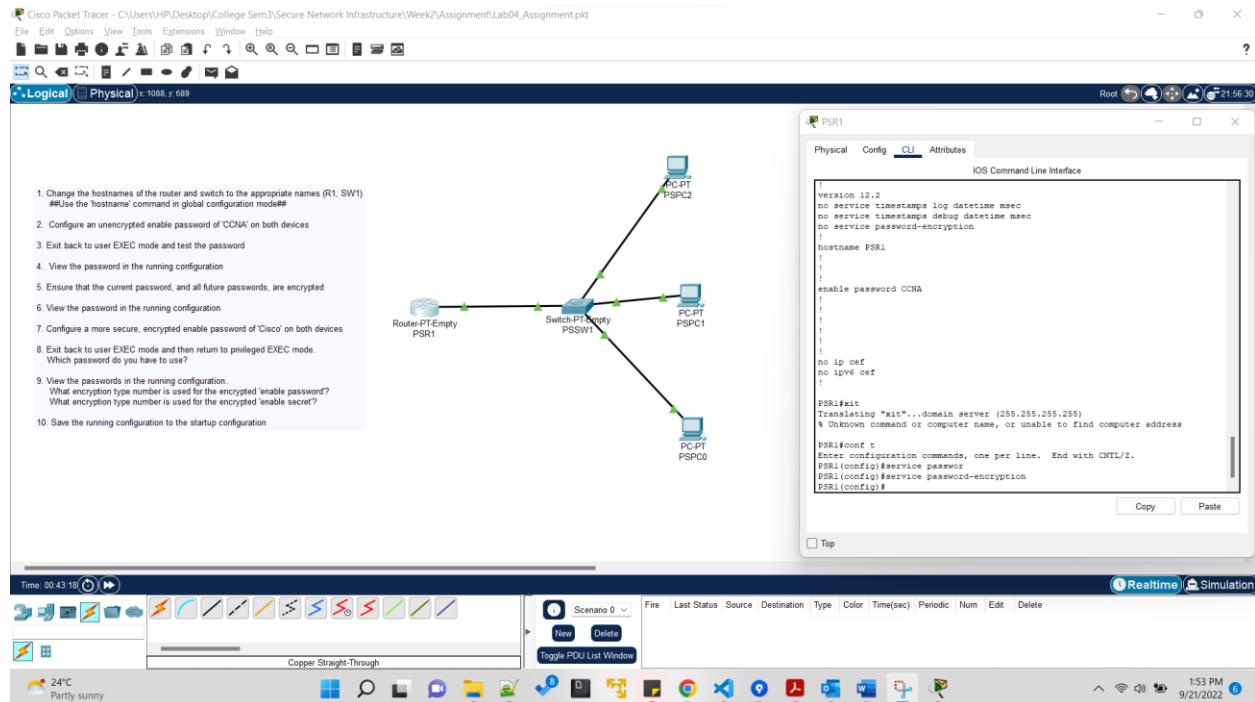


Switch

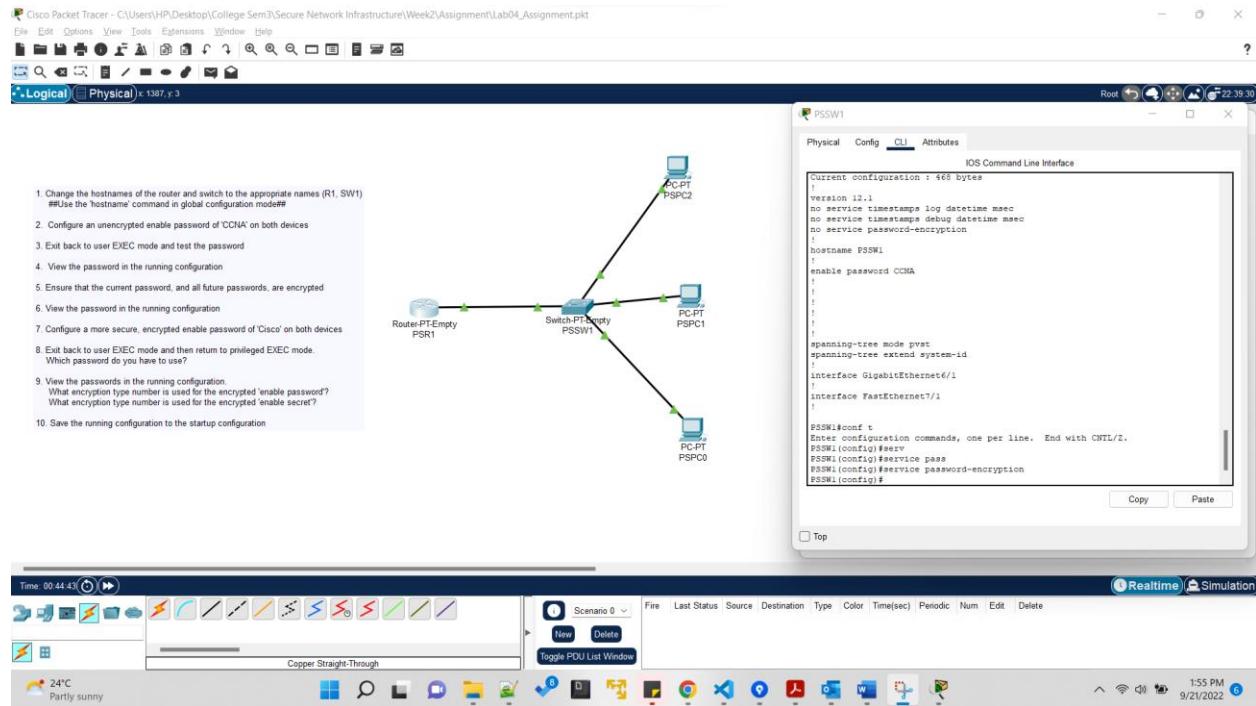


5. Ensure that the current password, and all future passwords, are encrypted.

Router

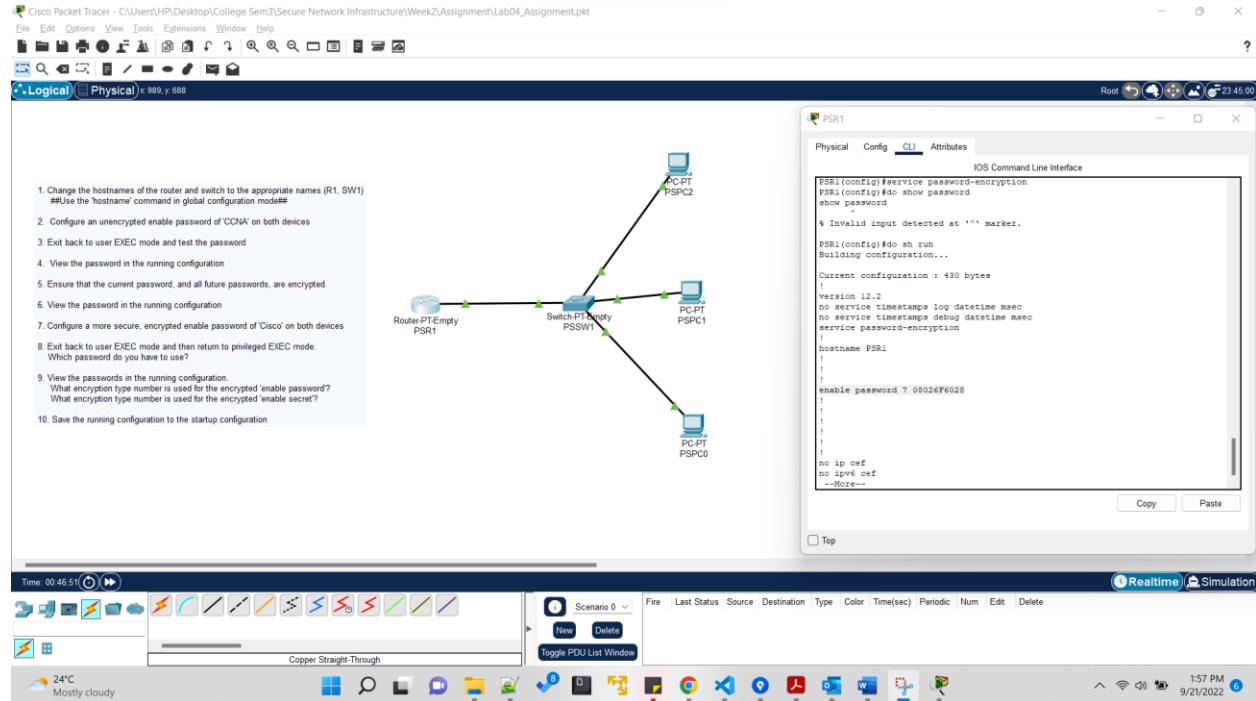


Switch

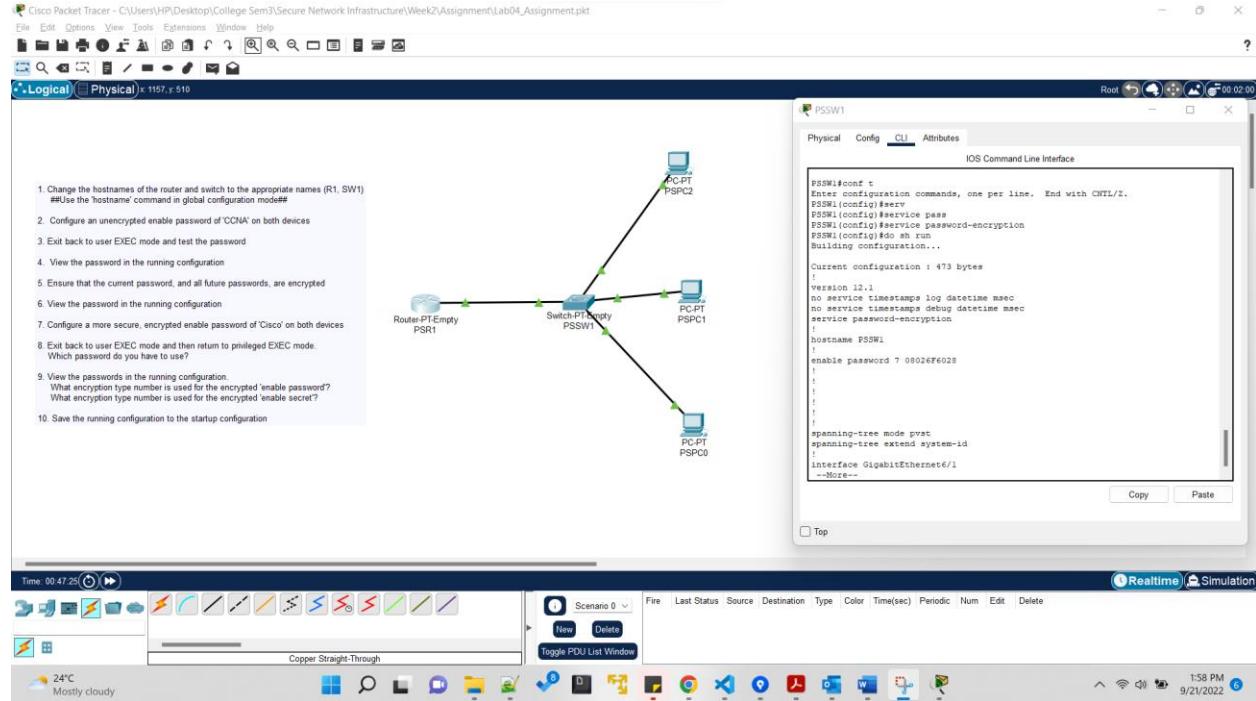


6. View the password in the running configuration

Router

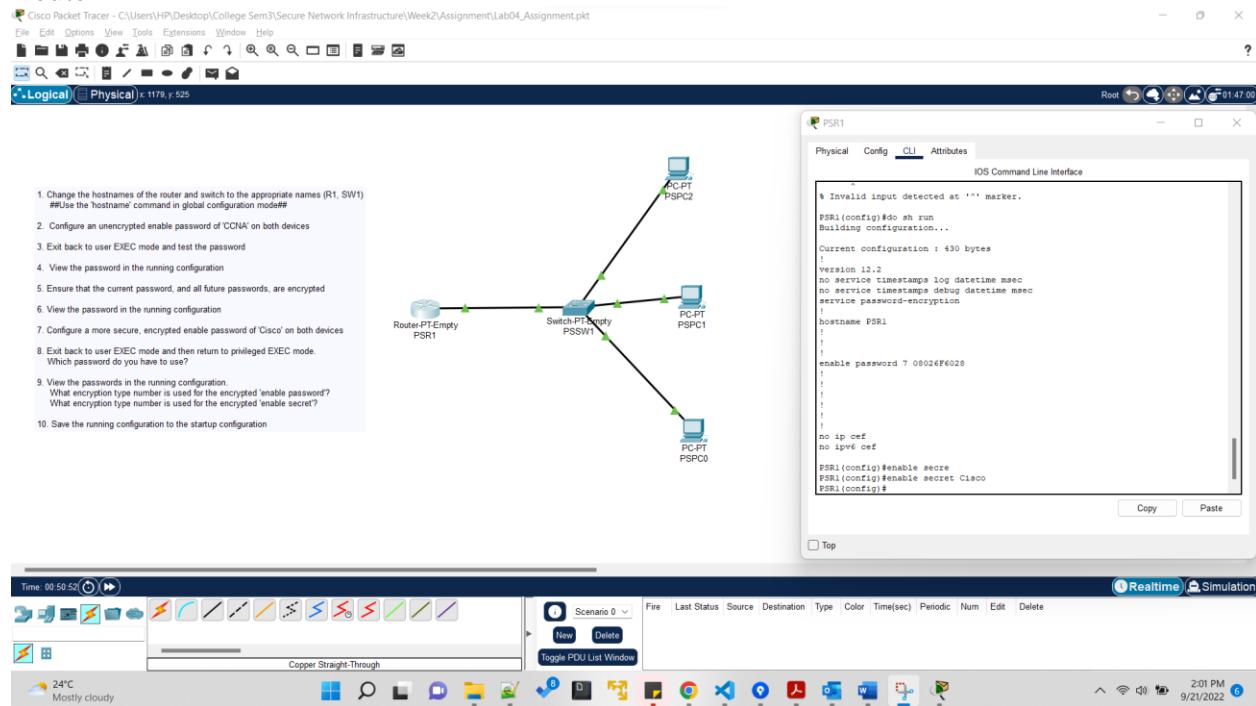


Switch

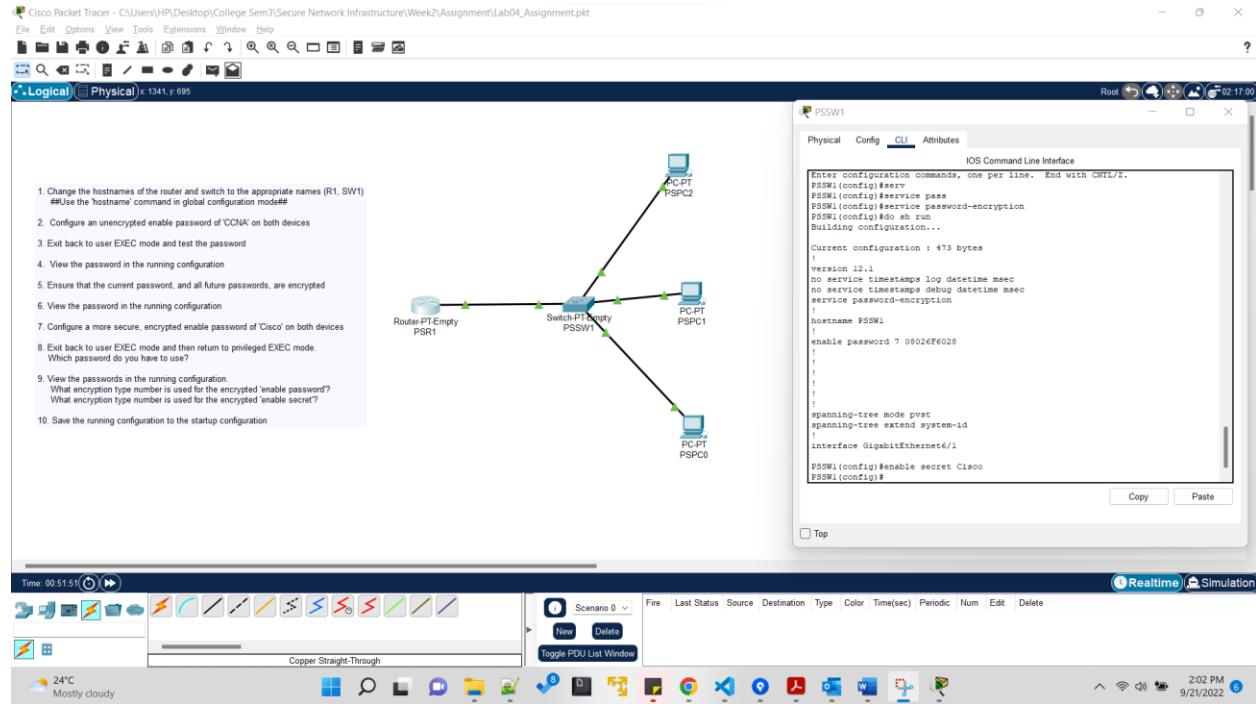


7. Configure a more secure, encrypted enable password of 'Cisco' on both devices.

Router

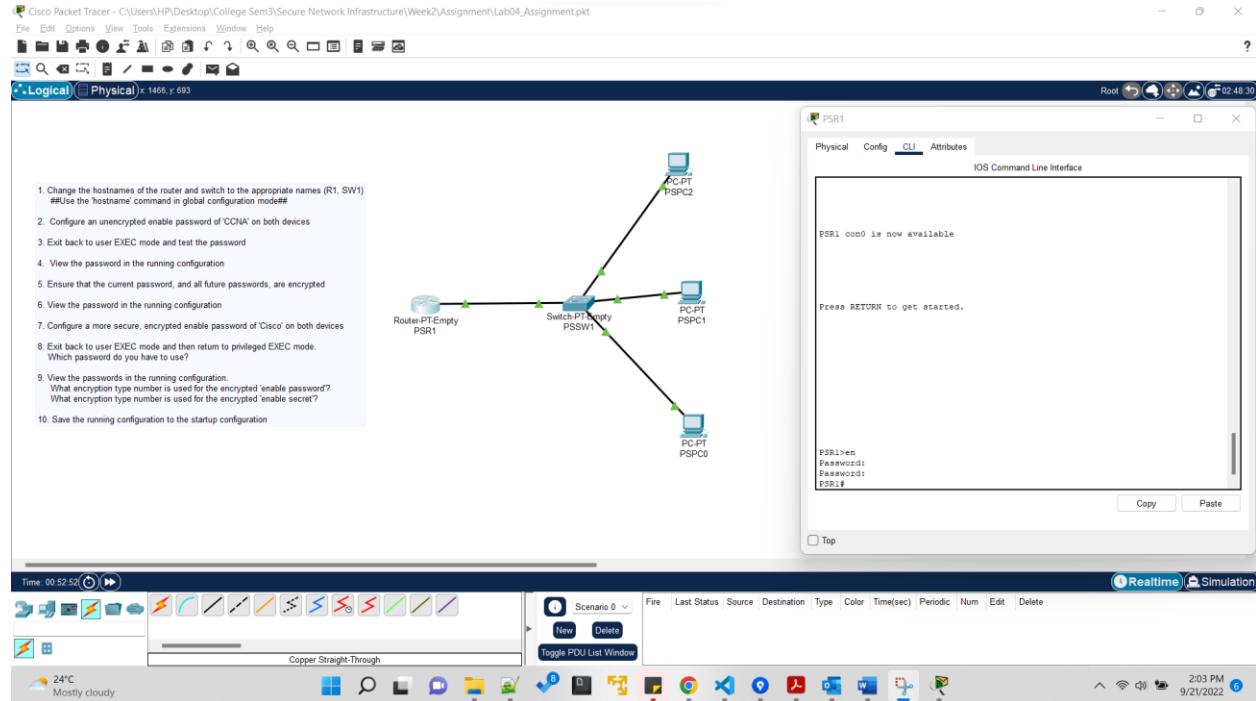


Switch

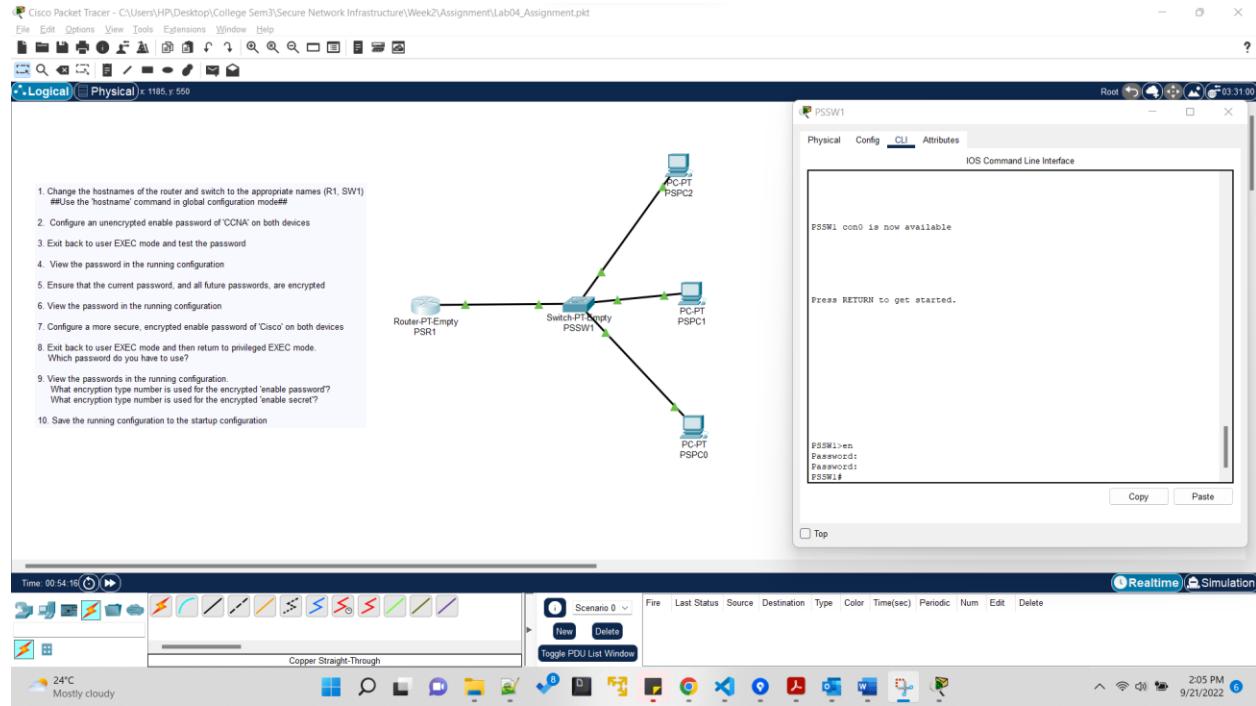


8. Exit back to user EXEC mode and then return to privileged EXEC mode.

Router



Switch

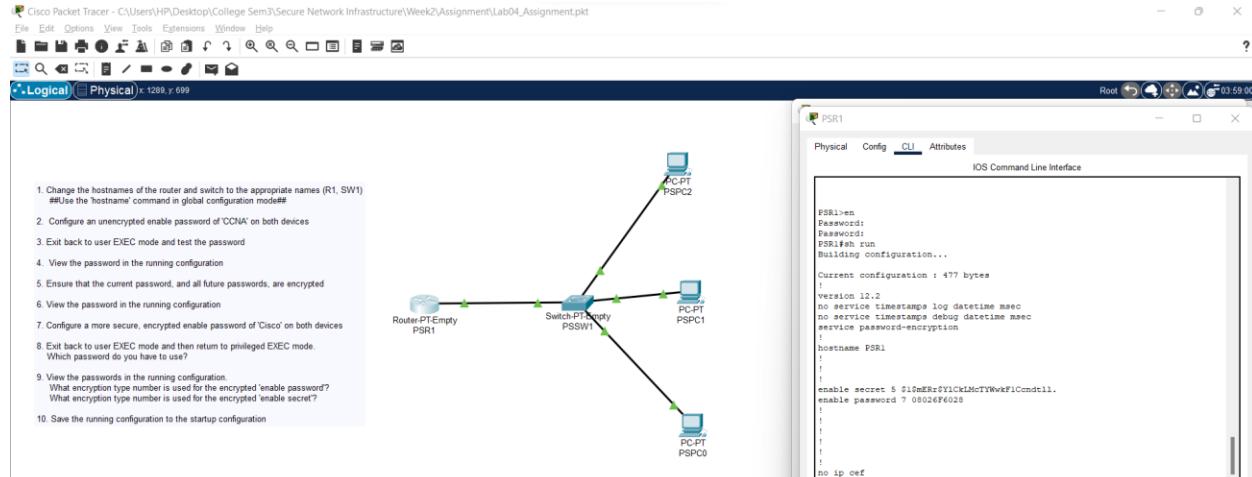


Which password do you have to use?

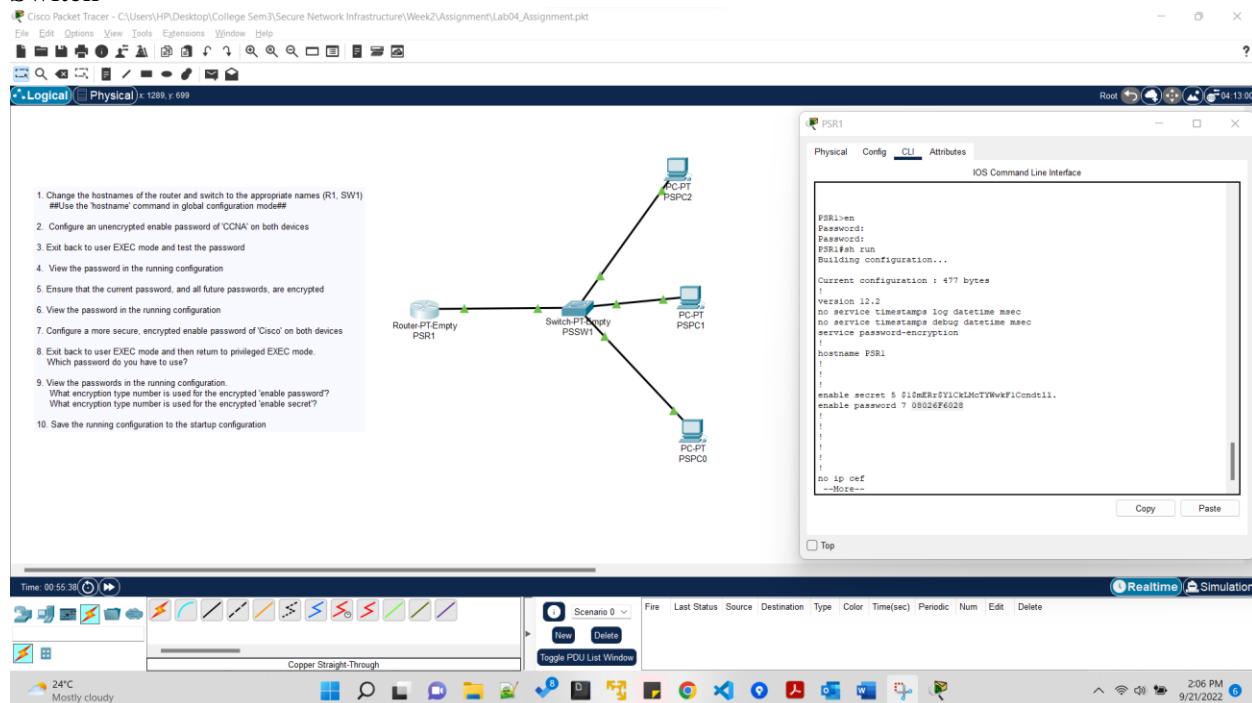
Tried with both passwords – CCNA and Cisco. But with CCNA it was giving error, So Cisco was accepted, latest one.

9. View the passwords in the running configuration.

Router



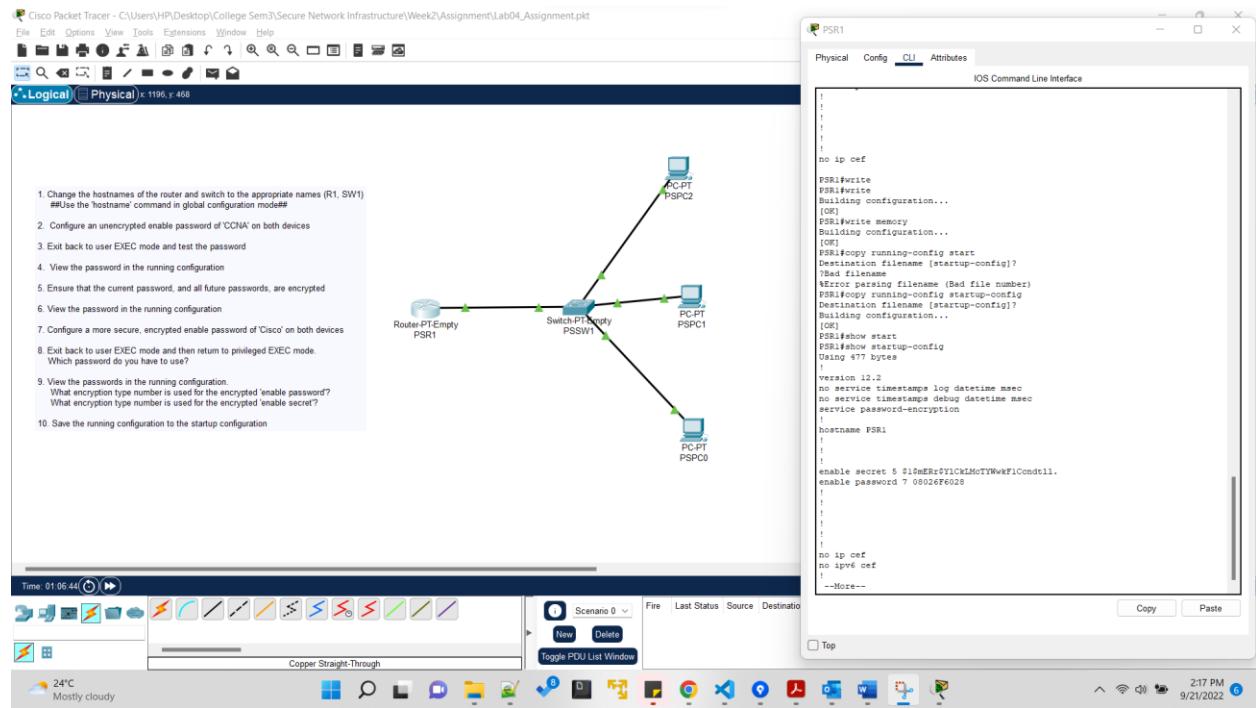
Switch



What encryption type number is used for the encrypted 'enable password'? – **Type 7 encryption**
 What encryption type number is used for the encrypted 'enable secret'? - **Type 5 encryption/ MD5 encryption**

10. Save the running configuration to the startup configuration.

Router



Switch

