

Project 1

Basic configuration of a simple network

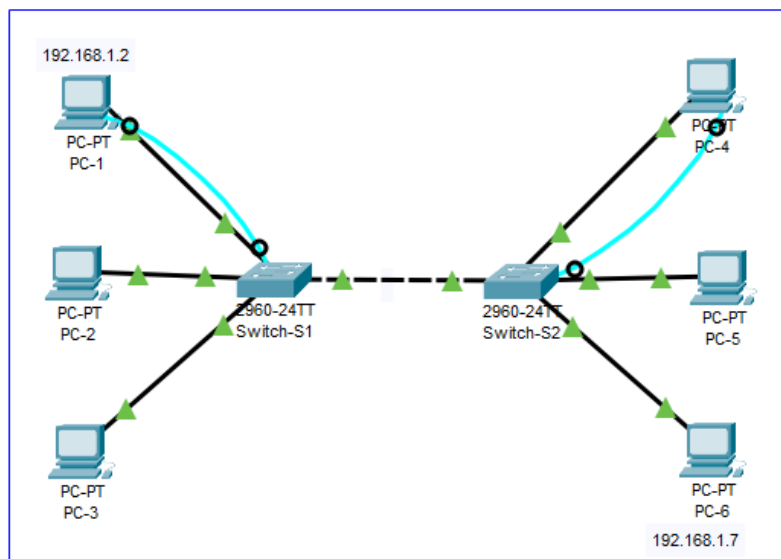
Project description:

Create a simple network and perform basic configuration

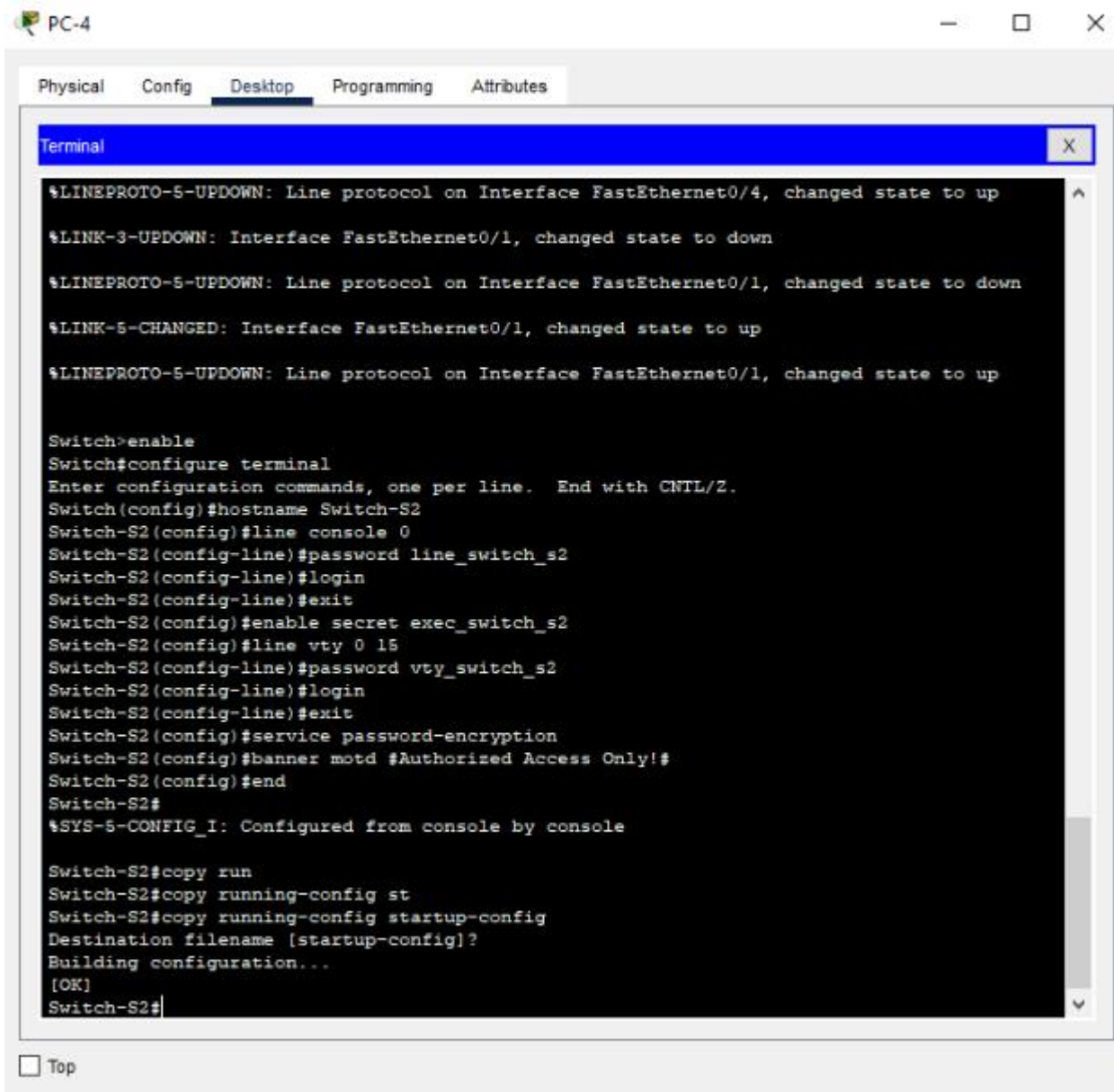
Steps:

- Create a topology:

Project 1: Basic configuration of a simple network



- Basic Switch configuration:
 1. Assign a device name.
 2. Secure user EXEC mode access.
 3. Secure privileged EXEC mode access.
 4. Secure VTY access.
 5. Encrypt all plaintext passwords.
 6. Display a login banner.
 7. Save Configurations



The screenshot shows a PC window titled "PC-4" with a "Terminal" window open. The terminal displays the following commands and output:

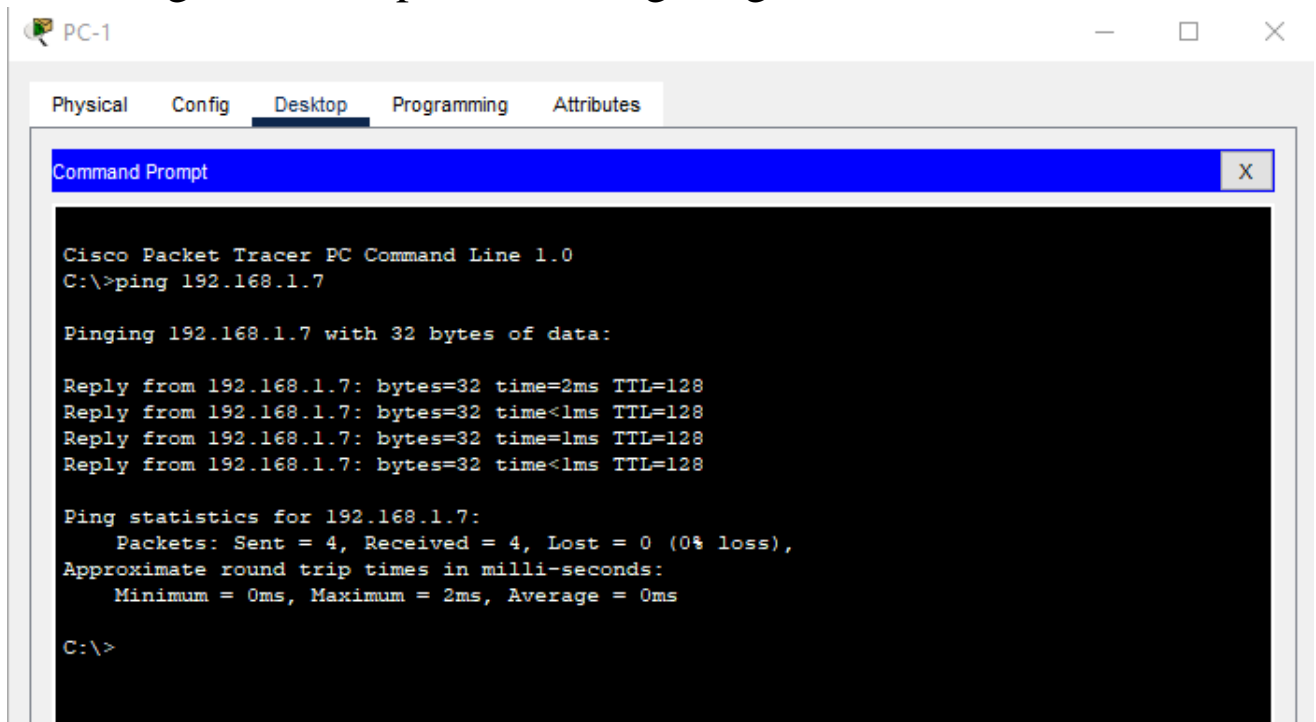
```
%LINEPROTO-5-UPDOWN: Line protocol on Interface FastEthernet0/4, changed state to up
%LINK-3-UPDOWN: Interface FastEthernet0/1, changed state to down
%LINEPROTO-5-UPDOWN: Line protocol on Interface FastEthernet0/1, changed state to down
%LINK-5-CHANGED: Interface FastEthernet0/1, changed state to up
%LINEPROTO-5-UPDOWN: Line protocol on Interface FastEthernet0/1, changed state to up

Switch>enable
Switch#configure terminal
Enter configuration commands, one per line. End with CNTL/Z.
Switch(config)#hostname Switch-S2
Switch-S2(config)#line console 0
Switch-S2(config-line)#password line_switch_s2
Switch-S2(config-line)#login
Switch-S2(config-line)#exit
Switch-S2(config)#enable secret exec_switch_s2
Switch-S2(config)#line vty 0 15
Switch-S2(config-line)#password vty_switch_s2
Switch-S2(config-line)#login
Switch-S2(config-line)#exit
Switch-S2(config)#service password-encryption
Switch-S2(config)#banner motd #Authorized Access Only!#
Switch-S2(config)#end
Switch-S2#
%SYS-5-CONFIG_I: Configured from console by console

Switch-S2#copy run
Switch-S2#copy running-config st
Switch-S2#copy running-config startup-config
Destination filename [startup-config]?
Building configuration...
[OK]
Switch-S2#
```

At the bottom left of the window, there is a checkbox labeled "Top".

- Checking network operation using Ping:



Summary:

A simple network is set up, packages are being sent.