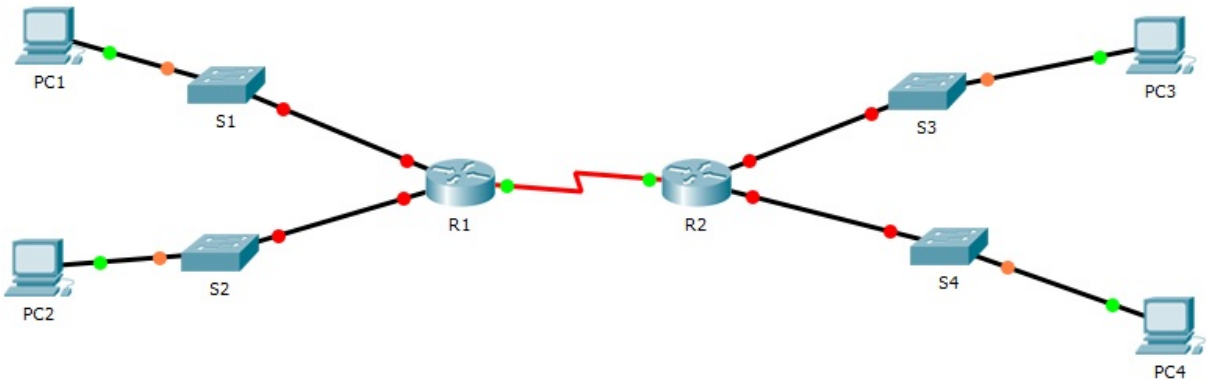
Packet Tracer - Configuring Initial Router Settings (Lab3-Router)

Topology:



Device	Interface	IP Address	Subnet Mask	Default Gateway
R1	G0/0	192.168.1.1	255.255.255.0	N/A
	G0/1	192.168.2.1	255.255.255.0	N/A
	S0/0/0 (DCE)	192.168.3.1	255.255.255.0	N/A
R2	G0/0	192.168.4.1	255.255.255.0	N/A
	G0/1	192.168.5.1	255.255.255.0	N/A
	S0/0/0	192.168.3.2	255.255.255.0	N/A
PC1	NIC	192.168.1.2	255.255.255.0	192.168.1.1
PC2	NIC	192.168.2.2	255.255.255.0	192.168.2.1
PC3	NIC	192.168.4.2	255.255.255.0	192.168.4.1
PC4	NIC	192.168.5.2	255.255.255.0	192.168.5.1

Objectives:

Part 1: Perform a Basic Configuration on R1
Part 2: Configure a MOTD Banner
Part 3: Save Configuration Files to NVRAM
Part 4: Configure R2
Part 5: Ping routers from PCs

Configure the router R1.

a. Click **R1** and then the **CLI** tab. Press Enter.

Enter privileged EXEC mode by entering the **enable** command:

Router> enable

Router#

b. Enter into global configuration mode.

Router# configure terminal

Router(config)#

c. Assign a device name to the router.

Router(config)# hostname R1

d. Disable DNS lookup to prevent the router from attempting to translate incorrectly entered commands as though they were hostnames.

R1(config)# no ip domain-lookup

e. Message of the day text: `Unauthorized access is strictly prohibited.`

R1(config)# banner motd "`Unauthorized access is strictly prohibited.`"

Passwords:

f. Assign class as the privileged EXEC password.

R1(config)# enable password class

Assign console password

R1(config)# line console 0

R1(config-line)#password cisco

R1(config-line)#login

R1(config-line)#exit

g. The **VTY lines** are the Virtual Terminal **lines** of the router, used to control inbound Telnet connections.

R1(config)# line vty 0 4

R1(config-line)#password cisco

R1(config-line)#login

R1(config-line)#exit

h. All passwords encrypted

R1(config)#service password-encryption

Configure an IP address and interface description. Activate both interfaces on the router.

Interfaces:

R1(config)#interface gig 0/0
R1(config-if)#description connection to S1
R1(config-if)#ip address 192.168.1.1 255.255.255.0
R1(config-if)#no shutdown
R1(config-if)# exit

R1(config)# int gig 0/1

R1(config-if)#description connection to S2

R1(config-if)# ip address 192.168.2.1 255.255.255.0

R1(config-if)# no shutdown

R1(config-if)# exit

R1#

i. Safe router configuration

R1#copy running-config startup-config

Configure the router R2 from the table above

a. **Click R1 and then the CLI tab. Press Enter.**
   Enter privileged EXEC mode by entering the enable command.
b. **Enter into global configuration mode.**
c. **Assign a device name to the router.**
d. **Disable DNS lookup to prevent the router from attempting to translate incorrectly entered commands as though they were hostnames.**
e. **Message of the day text:** `Unauthorized access is strictly prohibited.`
f. **Assign class as the privileged EXEC password.**
g. **Assign console password**
h. **The VTY lines are the Virtual Terminal lines of the router, used to control inbound Telnet connections.**
i. **All passwords encrypted**
j. **Configure an IP address and interface description. Activate both interfaces on the router.**
k. **Safe router configuration**
l. **Assign IP address to PC's 1-4**

Click on each PC and then Desktop tab

Click on IP configuration

In IP configuration enter manually the IP address and subnet mask from the table above.

j. **Ping R1 from PC1 and PC2**

Click on PC1 and goto Desktop. From the command prompt use the command

C:/ ping 192.168.1.1

And repeat the same for PC2

C:/ping 192.168.2.1

k. Ping R2 from PC3 and P4

Click on PC3 and goto desktop. From the command prompt use the command

C:/ping 192.168.4.1

And repeat the same command from PC4

C:/ping 192.168.5.1

Check results ? :