# Chapter 6 Skills Assessment - Packet Tracer

#### Topology

You will receive one of three possible topologies.

#### Addressing Table

Device	Interface	Address	Subnet Mask	Default Gateway
Science	G0/0	172.16.5.1	255.255.255.0	N/A
	G0/1	192.168.5.1	255.255.255.0	N/A
Bio	VLAN 1	172.16.5.2	255.255.255.0	
Phys	VLAN 1	192.168.5.252	255.255.255.0	
Bio 1	NIC	172.16.5.10	255.255.255.0	
Bio 2	NIC	172.16.5.11	255.255.255.0	1
Phys 1	NIC	192.168.5.10	255.255.255.0	ì
Phys 2	NIC	192.168.5.11	255.255.255.0	

#### Objectives

- Perform basic device configuration tasks on a router and a switch.
- Configure IP addressing settings on network devices.
- Verify Layer 3 connectivity and troubleshoot connectivity issues.

#### Scenario

You are working on a network that has already been partially configured. In this assessment you will complete a set of requirements by configuring some additional settings on the Bio switch and the router. Use the knowledge that you have gained in the curriculum and labs to fulfill the requirements below.

Note: If you need a value that is not given to you, you can use any value you want. However, you must use the correct values for the default gateways in order that the hosts can communicate.

#### Requirements

- Determine the values that are missing from the Addressing Table.
- Configure all devices with the missing default gateway values.
- Name the Bio switch with the name that is shown in the Addressing Table.
- Secure access to all configuration lines of the Bio switch.
- Secure access to the device configurations of the Bio switch using the encrypted password.
- Ensure that all plain text passwords on the Bio switch are encrypted.
- Configure an appropriate banner on the Bio switch.
- Configure addressing for all devices according to the Addressing Table. Most values
  are provided in the table, others you must determine.
- Document interfaces with descriptions on the Science router interfaces and the Bio switch virtual interface.
- Save your configurations.
- Verify connectivity between all devices. All devices should be able to ping all of the other devices.
- Troubleshoot any connectivity problems.

All devices should be able to ping one another when you have successfully

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