

# **NAME: BEATRICE ANN DAVID A23CS0055**

# **LAB 1:**

# 2.9.1: Packet Tracer - Basic Switch and End Device Configuration

### **Addressing Table**

Device	Interface	IP Address	Subnet Mask
Room-145	VLAN 1	172.16.5.35	255.255.255.0
Room-146	VLAN 1	172.16.5.40	255.255.255.0
Manager	NIC	172.16.5.50	255.255.255.0
Reception	NIC	172.16.5.60	255.255.255.0

### **Objectives**

- Configure hostnames and IP addresses on two Cisco Internetwork Operating System (IOS) switches
  using the command-line interface (CLI).
- Use Cisco IOS commands to specify or limit access to the device configurations.
- Use IOS commands to save the running configuration.
- Configure two host devices with IP addresses.
- Verify connectivity between the two PC end devices.

#### Scenario

As a recently hired LAN technician, your network manager has asked you to demonstrate your ability to configure a small LAN. Your tasks include configuring initial settings on two switches using the Cisco IOS and configuring IP address parameters on host devices to provide end-to-end connectivity. You are to use two switches and two hosts/PCs on a cabled and powered network.

### Instructions

Configure the devices to fulfill the requirements below.

### Requirements

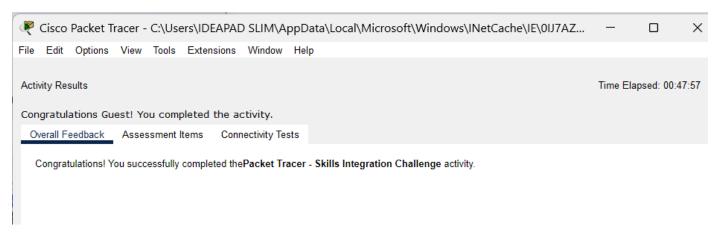
- Use a console connection to access each switch.
- Name and switches.
- Use the password for all lines.
- Use the secret password.
- Encrypt all clear text passwords.
- Configure an appropriate message-of-the-day (MOTD) banner.
- Configure addressing for all devices according to the Addressing Table.
- Save your configurations.

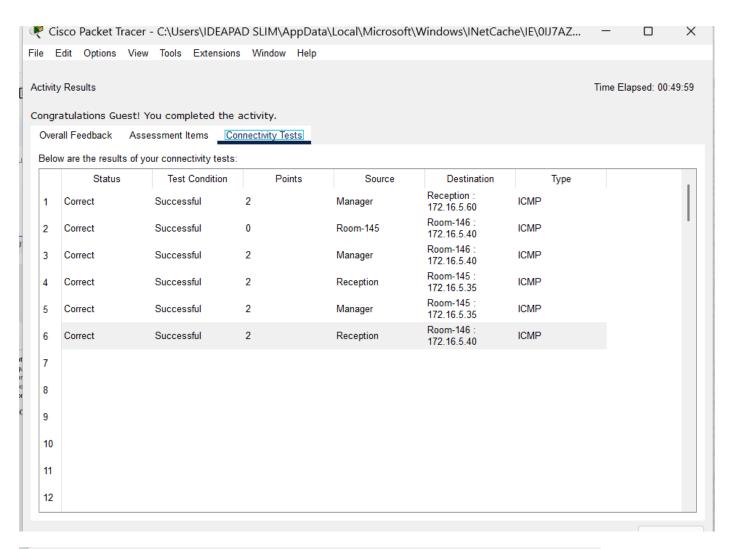
• Verify connectivity between all devices.

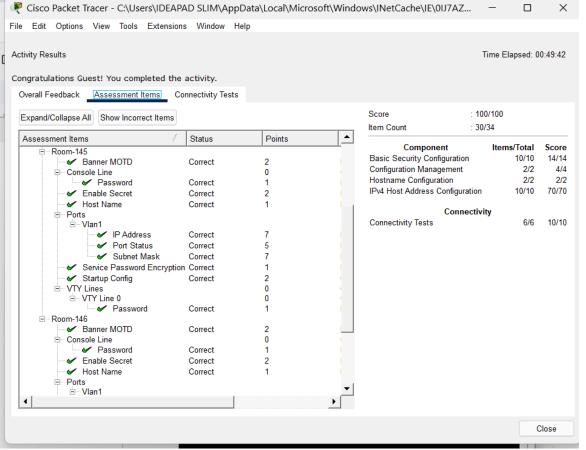
**Note:** Click **Check Results** to see your progress. Click **Reset Activity** to generate a new set of requirements. If you click on this before you complete the activity, all configurations will be lost.

### **Screenshots:**

### A. Results:

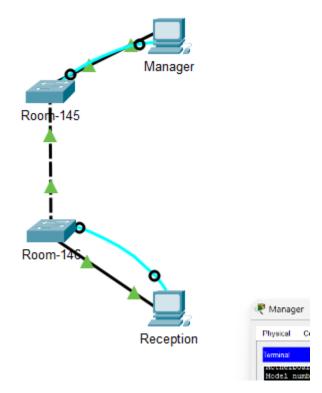






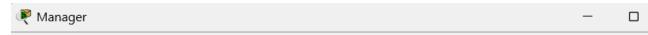
# B. Working:

## 1. Console:



# 2. Naming Switches:

i) Room-145 (Manager):



Physical Config Desktop Programming

```
Terminal
Model number
                               : WS-C2960-24TT-L
System serial number
                              : FOC1010X104
                              : 800-27221-02
Top Assembly Part Number
                              : A0
Top Assembly Revision Number
Version ID
                               : V02
CLEI Code Number
                               : COM3L00BRA
Hardware Board Revision Number : 0x01
Switch Ports Model
                               SW Version
                                                     SW Image
     1 26
            WS-C2960-24TT-L 15.0(2)SE4
                                                     C2960-LANBASEK9-M
Cisco IOS Software, C2960 Software (C2960-LANBASEK9-M), Version 15.0(2)SE4, RELEASE SOFTWARE (fcl)
Technical Support: http://www.cisco.com/techsupport
Copyright (c) 1986-2013 by Cisco Systems, Inc.
Compiled Wed 26-Jun-13 02:49 by mnguyen
Press RETURN to get started!
%LINK-5-CHANGED: Interface FastEthernet0/2, changed state to up
%LINEPROTO-5-UPDOWN: Line protocol on Interface FastEthernet0/2, changed state to up
%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#conf
Configuring from terminal, memory, or network [terminal]?
Enter configuration commands, one per line. End with CNTL/Z.
Switch(config) #configure terminal
% Invalid input detected at '^' marker.
Switch (config) #
Switch (config) #host
% Incomplete command.
Switch(config) #hostname Room-145
Room-145(config)#
```

#### ii) Room-146 (Reception):

```
Switch>enable
Switch#conf
Configuring from terminal, memory, or network [terminal]?
Enter configuration commands, one per line. End with CNTL/Z.
Switch(config)#configure terminal

% Invalid input detected at '^' marker.

Switch(config)#hostname Room-146
Room-146(config)#
```

#### 3. Use the 8ubRu password for all lines

#### i) Room -146 (Reception)

```
Switch(config) #hostname Room-146
Room-146(config) #line console 0
Room-146(config-line) #password 8ubR^Z
Room-146#
%SYS-5-CONFIG I: Configured from console by console
Room-146#configure terminal
Enter configuration commands, one per line. End with CNTL/Z.
Room-146(config) #line console 0
Room-146(config-line) #password 8ubRu
Room-146(config-line) #login
Room-146(config-line) #exit
Room-146 (config) #line
% Incomplete command.
Room-146(config) #line vty 0
Room-146(config-line) #line vty 0 15
Room-146(config-line) #password 8ubRu
Room-146(config-line) #login
Room-146(config-line) #exit
Room-146(config)#
```

### ii) Room-145 (Manager)

```
Switch(config) #
Switch(config) #host
% Incomplete command.
Switch(config) #hostname Room-145
Room-145(config) #line console 0
Room-145(config-line) #password 8ubRu
Room-145(config-line) #exit
Room-145(config) #line vty 0 15
Room-145(config-line) #password 8ubRu
Room-145(config-line) #password 8ubRu
Room-145(config-line) #login
Room-145(config-line) #exit
Room-145(config-line) #exit
Room-145(config) #
```

- 4. Use the C9WrE secret password.
  - i) Room-145 (Manager)

```
Room-145(config) #enable secret C9WrE
Room-145(config) #
```

#### ii) Room-146 (Reception)

```
Room-146(config) #enable secret C9WrE
Room-146(config) #
```

- 5. Encrypt all clear text passwords.
  - i) Room-146 (Reception)

```
Room-146(config) #service password-encryption
 Room-146(config)#
ii) Room-145 (Manager)
```

```
Room-145(config) #service password-encryption
Room-145(config)#
```

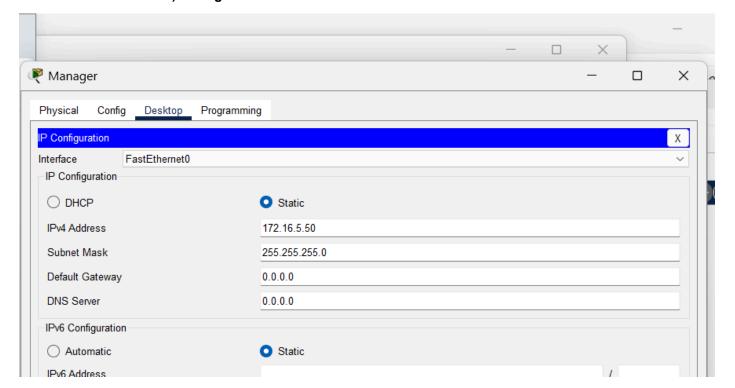
- Configure an appropriate message-of-the-day (MOTD) banner. 6.
  - i) Room-145 (Manager)

```
Room-145(config) #banner motd &Unauthorized access is strictly Prohibited&
Room-145 (config) #
```

ii) Room-146 (Reception)

```
Room-146(config) #banner motd "Warning! Unauthorized access is strictly Prohibited!"
Room-146(config)#
```

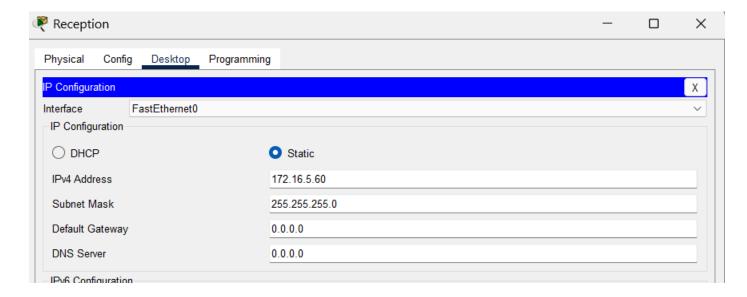
- 7. Configure addressing for all devices according to the Addressing Table.
  - i) Manager



```
Room-145#configure terminal
Enter configuration commands, one per line. End with CNTL/Z.
Room-145(config)#interface vlan 1
Room-145(config-if)#ip address 172.16.5.35 255.255.255.0
Room-145(config-if)#no shutdown

Room-145(config-if)#
%LINK-5-CHANGED: Interface Vlan1, changed state to up
%LINEPROTO-5-UPDOWN: Line protocol on Interface Vlan1, changed state to up
```

### ii) Reception



```
Room-146(config) #interface vlan 1
Room-146(config-if) #ip address 172.16.5.40 255.255.255.0
Room-146(config-if) #no shutdown

Room-146(config-if) #
%LINK-5-CHANGED: Interface Vlan1, changed state to up
%LINEPROTO-5-UPDOWN: Line protocol on Interface Vlan1, changed state to up
```

- 8. Save your configurations.
  - i) Manager

```
Room-145(config-if) #^Z
Room-145#
%SYS-5-CONFIG_I: Configured from console by console

Room-145#copy running-config startup-config
Destination filename [startup-config]?
Building configuration...
[OK]
Room-145#
```

#### ii) Reception

```
Room-146(config-if) #^Z
Room-146#
%SYS-5-CONFIG_I: Configured from console by console

Room-146#copy running-config startup-config
Destination filename [startup-config]?
Building configuration...
[OK]
Room-146#
```

### 9. Verify connectivity between all devices.

#### i) Manager

