

Christian Dunn 06/19/2023 CST 329 03A Code:

773777

Packet Tracer - Basic Device Configuration

Topology

You will receive one of three possible topologies.

Addressing Table

Device	Interface	IP Address	Default Gateway
Floor - 14	G0/0	172.14.5.1/24	N/A
		2001:DB8:CAFE:1::1/64	
		FE80::1	
	G0/1	172.14.10.1/24	N/A
		2001:DB8:CAFE:2::/64	
Room - 145	VLAN 1		172.14.5.1
Room - 146	VLAN 1	172.14.10.254	172.14.10.1
Manager - A	NIC	172.14.5.50/24	172.14.5.1
		2001:DB8:CAFE:1::2/64	FE80::1
Reception - A	NIC	172.14.5.60/24	172.14.5.1
		2001:DB8:CAFE:1::3/64	FE80::1
Manager - B	NIC	172.14.10.50/24	172.14.10.1
		2001:DB8:CAFE:2::2/64	FE80::1
Reception - B	NIC	172.14.10.60/24	172.14.10.1
		2001:DB8:CAFE:2::3/64	FE80::1

Objectives

- Complete the network documentation.
- Perform basic device configurations on a router and a switch.
- · Verify connectivity and troubleshoot any issues.

Scenario

Your network manager is impressed with your performance in your job as a LAN technician. She would like you to demonstrate your ability to configure a router that connects two LANs. Your tasks include configuring

basic settings on a router and a switch using the Cisco IOS. You will also configure IPv6 addresses on network devices and hosts. You will then verify the configurations by testing end-to-end connectivity. You goal is to establish connectivity between all devices.

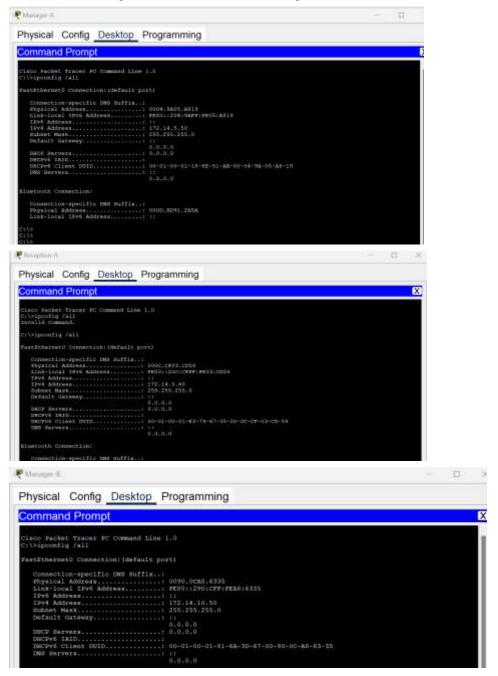
Note: The VLAN1 interface on will not be reachable over IPv6.

In this activity you will configure the router, switch, and the **PC hosts**.

Note: Packet Tracer will not score some configured values, however these values are required to accomplish full connectivity in the network.

Requirements

Provide the missing information in the Addressing Table.





Name the router are the switch.

and the second switch

. You will not be able to access





Use cisco as the user EXEC password for all lines.









Use class as the encrypted privileged EXEC password.





Encrypt all plaintext passwords.





Configure an appropriate banner.





Configure IPv4 and IPv6 addressing for the

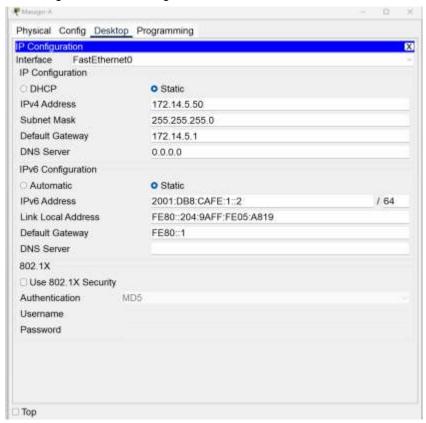
switch according to the Addressing Table.

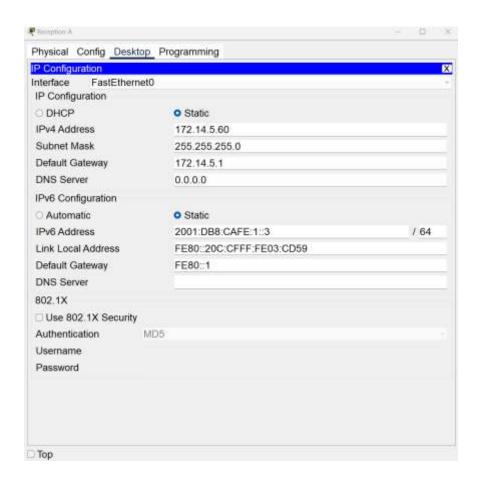


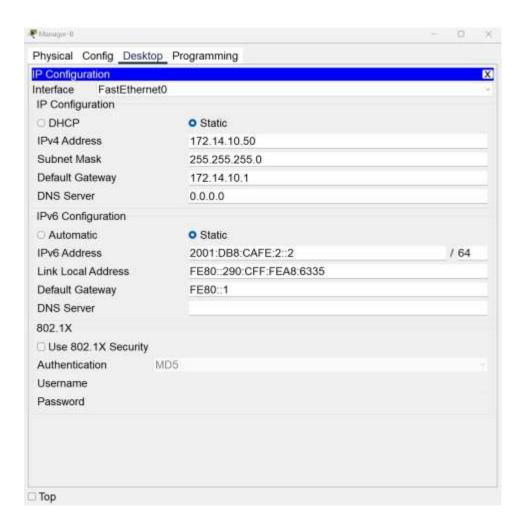
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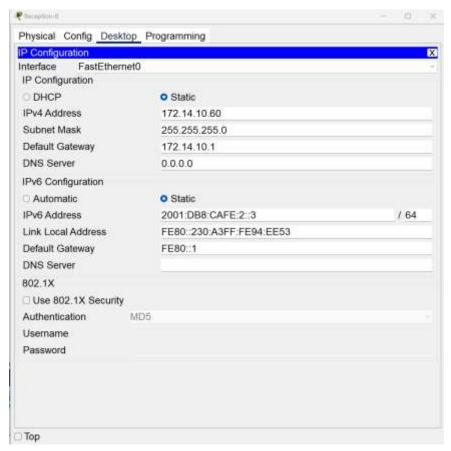
switch according to the Addressing Table.

• The hosts are partially configured. Complete the IPv4 addressing, and fully configure the IPv6 addresses according to the Addressing Table.



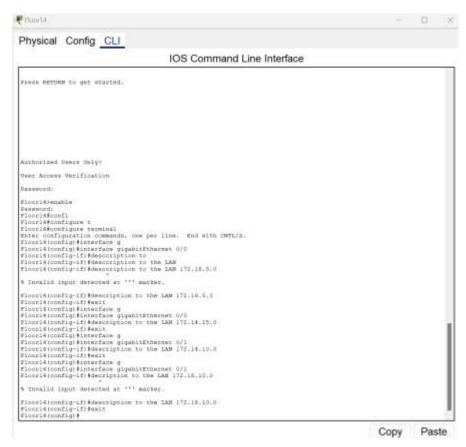






· Document interfaces with descriptions, including the

VLAN 1 interface.

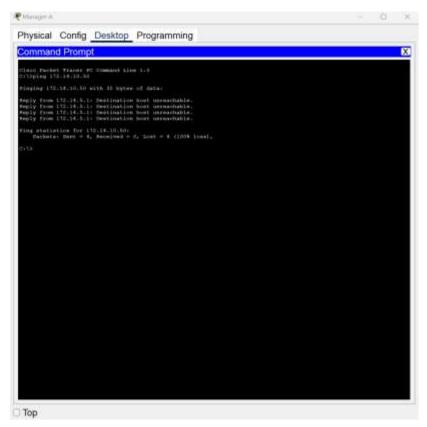


Save your configurations.





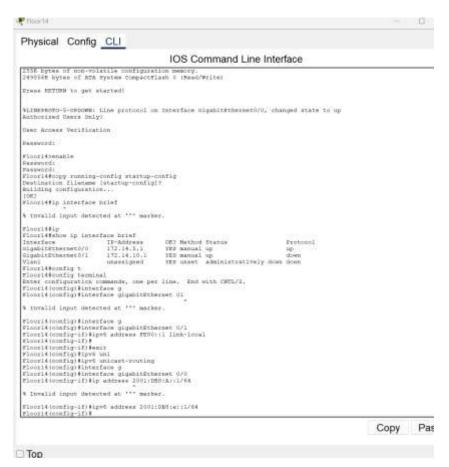
 Verify connectivity between all devices. All devices should be able to ping all other devices with IPv4 and IPv6.



Somehow the Switch was disconnected from the Router, but they were initially connected and I don't know the solution. It says the disconnection is locked.



• Troubleshoot and document any issues.



Implement the solutions necessary to enable and verify full end-to-end connectivity.

Note: Click **Check Results** button to see your progress. Click the **Reset Activity** button to generate a new set of requirements.