

## Packet Tracer - Basic Device Configuration

### Topology

You will receive one of three possible topologies.

### Addressing Table

Device	Interface	IP Address	Default Gateway
<i>Floor14</i>	G0/0	<i>128.107.20.1/24</i>	N/A
		<i>2001:db8:a::1/64</i>	
		<i>FE80::1</i>	
	G0/1	<i>128.107.30.1/24</i>	N/A
		<i>2001:db8:b::1/64</i>	
		<i>FE80::1</i>	
<i>Room-145</i>	VLAN 1	<i>128.107.20.2/24</i>	<i>128.107.20.1</i>
<i>Room-146</i>	VLAN 1	<i>128.107.30.15/24</i>	<i>128.107.30.1</i>
<i>Manager-A</i>	NIC	<i>128.107.20.25/24</i>	<i>128.107.20.1</i>
		<i>2001:DB8:A::2/64</i>	<i>FE80::1</i>
<i>Reception-A</i>	NIC	<i>128.107.20.30/24</i>	<i>128.107.20.1</i>
		<i>2001:DB8:A::3/64</i>	<i>FE80::1</i>
<i>Manager-B</i>	NIC	<i>128.107.30.25/24</i>	<i>128.107.30.1</i>
		<i>2001:DB8:B::3/64</i>	<i>FE80::1</i>
<i>Reception-B</i>	NIC	<i>128.107.30.30/24</i>	<i>128.107.30.1</i>
		<i>2001:DB8:B::2/64</i>	<i>FE80::1</i>

### 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. Your 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 \_\_\_\_\_.

**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.

**Note:** Some of the information is provided in the Packet Tracer instructions for your topology.

- Name the router \_\_\_\_\_ and the second switch \_\_\_\_\_. You will not be able to access the \_\_\_\_\_ switch.
- 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.
- Configure IPv4 and IPv6 addressing for the \_\_\_\_\_ 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.
- 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.