# Packet Tracer - Basic Device Configuration

## Topology

You will receive one of three possible topologies.

## Addressing Table

| Device | Interface | IP Address | Default Gateway |
|---|---|---|---|
| Floor14 | G0/0 | 172.14.5.1/24 | N/A |
| | | 2001:DB8:A::1/64 | |
| | | FE80::1 | |
| | G0/1 | 172.14.10.1/24 | N/A |
| | | 2001:DB8:B::1/64 | |
| | | FE80::2 | |
| Room-145 | VLAN 1 | 172.14.5.2/24 | 172.14.5.1/24 |
| Room-146 | VLAN 1 | 172.14.10.35/24 | 172.14.10.1/24 |
| Manager-A | NIC | 172.14.5.50/24 | 172.14.5.1/24 |
| | | 2001:DB8:A::32/64 | FE80::1 |
| Reception-A | NIC | 172.14.5.60/24 | 172.14.5.1/24 |
| | | 2001:DB8:A::3C/64 | FE80::1 |
| Manager-B | NIC | 172.14.10.50/24 | 172.14.10.1/24 |
| | | 2001:DB8:B::32/64 | FE80::1 |
| Reception-B | NIC | 172.14.10.60/24 | 172.14.10.1/24 |
| | | 2001:DB8:B::3c/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 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.