Packet Tracer - Basic Device Configuration

# Topology

You will receive one of three possible topologies.

# Addressing Table

|  |  |  |  |
| --- | --- | --- | --- |
| Device | Interface | IP Address | Default Gateway |
| blank | G0/0 | 128.107.20.1/24 | N/A |
| blank | G0/0 | 2001:db8:a::1/64  nk | N/A |
| College | G0/0 | FE80::1  nk | N/A |
| blank | G0/1 | 128.107.30.1/24 | N/A |
| blank | G0/1 | 2001:db8:b::1/64  *N/A*  ank | N/A |
| blank | G0/1 | FE80::1  ank | N/A |
| Class-A | VLAN 1 | 128.107.20.2/24  k | 128.107.20.1 |
| Class-B | VLAN 1 | 128.107.30.15/24  nk | 128.107.30.1 |
| Student-1 | NIC | 128.107.20.25/24  ank | 128.107.20.1 |
| blank | NIC | 2001:db8:a::2/64 | FE80::1 |
| Student-2 | NIC | 128.107.20.30/24  k | 128.107.20.1 |
| blank | NIC | 2001:db8:a::3/64  nk | FE80::1 |
| Student-3 | NIC | 128.107.30.25/24  ank | 128.107.30.1 |
| blank | NIC | 2001:db8:b::2/64  k | FE80::1 |
| Student-4 | NIC | 128.107.30.30/24  ank | 128.107.30.1 |
| blank | NIC | 2001:db8:b::2/64  ank | FE80::1 |

1. Blank Line, No additional information

# 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 .

**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 theswitch.
* 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.

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