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 | Blank192.0.0.1 | 192.0.0.1 |
|  | G0/0 | Blank255.255.255.0 | N/A |
| OfficeRouter | G0/0 | blank | N/A |
|  | G0/1 | 172.0.1.1 | 172.0.1.1 |
|  | G0/1 | Blank255.255.0.0 | N/A |
|  | G0/1 | blank | N/A |
| blankhHR | VLAN 1 | 192.0.0.4 | Bla192.0.0.1 |
| BlankACCTG | VLAN 1 | Blank172.0.1.4 | blank192.0.0.1 |
| 192.0.0.2 | NIC | Blank192.0.0.2 | Blank192.0.0.1 |
|  | NIC | Blank255.255.255.0 | blank |
| B192.0.0.3 | NIC | Blank192.0.0.3 | blank 192.0.0.1 |
|  | NIC | Blank255.255.255.0 | blank |
| 172.0.1.2 | NIC | blank172.0.1.2 | blank172.0.1.1 |
|  | NIC | 255.255.0.0 | blank |
| 172.0.1.3 | NIC | blank172.0.1.3 | blank172.0.1.1 |
|  | NIC | Blank255.255.0.0 | blank |

# 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.

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