

Packet Tracer - Skills Integration Challenge

Topology

You will receive one of three possible topologies.

Addressing Table

| Device | Interface | IP Address | Subnet Mask | Default Gateway |
|--------|-----------|------------|---------------|-----------------|
| | G0/0 | | 255.255.255.0 | N/A |
| | G0/1 | | 255.255.255.0 | N/A |
| | VLAN 1 | | 255.255.255.0 | |
| | VLAN 1 | | 255.255.255.0 | |
| | NIC | | 255.255.255.0 | |
| | NIC | | 255.255.255.0 | |
| | NIC | | 255.255.255.0 | |
| | NIC | | 255.255.255.0 | |

Objectives

- Finish 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 now demonstrate your ability to configure a router connecting two LANs. Your tasks include configuring basic settings on a router and a switch using the Cisco IOS. You will then verify your configurations, as well as configurations on existing devices by testing end-to-end connectivity.

Note: After completing this activity, you can choose to click the **Reset Activity** button to generate a new set of requirements. Variable aspects include device names, IP addressing schemes, and the topology.

Requirements

- Provide the missing information in the Addressing Table.
- Name the router _____ 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 privileged EXEC password.
- Encrypt all plain text passwords.
- Configure an appropriate banner.
- Configure addressing for all devices according to the Addressing Table.
- Document interfaces with descriptions, including the _____ VLAN 1 interface.

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- Save your configurations.
- Verify connectivity between all devices. All devices should be able to ping any other device.
- 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.