

Packet Tracer - Basic Device Configuration

Topology

You will receive one of three possible topologies.

Addressing Table

| Device | Interface | IP Address | Default Gateway |
|--------|-----------|-------------------------|-----------------|
| RTA | G0/0 | 10.10.10.1 | N/A |
| | | 2001:DB8:ACAD:100::/64 | |
| | | FE80::1 | |
| | G0/1 | 10.10.11.1 | N/A |
| | | 2001:DB8:ACAD:200::/64 | |
| | | FE80::1 | |
| ASw01 | VLAN 1 | | 10.10.10.1 |
| ASw02 | VLAN 1 | | 10.10.11.1 |
| User01 | NIC | 10.10.10.101 | 10.10.10.1 |
| | | 2001:DB8:ACAD:100::2/64 | FE80::1 |
| User02 | NIC | 10.10.10.102 | 10.10.10.1 |
| | | 2001:DB8:ACAD:100::3/64 | FE80::1 |
| User03 | NIC | 10.10.11.101 | 10.10.11.1 |
| | | 2001:DB8:ACAD:200::2/64 | FE80::1 |
| User04 | NIC | 10.10.11.102 | 10.10.11.1 |
| | | 2001:DB8:ACAD:200::3/64 | 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. 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 **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.