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Physical Config CLI

IOS Command Line Interface

Output queue 1/0/0 (size/max):
5 minute input rate 1 bits/sec, 0 packets/sec
5 minute output rate 43 bits/sec, 0 packets/sec
431 packets input, 20860 bytes, 0 no buffer
Received 0 broadcast, 0 runs, 0 giants, 0 throttles
0 input errors, 0 CRC, 0 frame, 0 overrun, 0 ignored, 0 abort
0 input packets with dribble condition detected
407 packets output, 20313 bytes, 0 underruns
0 output errors, 0 collisions, 2 interface resets
0 badbytes, 0 late collision, 0 deferred
0 lost carrier, 0 no carrier
0 output buffer failures, 0 output buffers swapped out

22show intet 0/0/1
Serial0/1/1 is up, line protocol is up (connected)
Hardware is ND44870
Description: Internet
Internet address is 209.165.200.225/30
MTU 1500 bytes, BW 1544 Kbps, DFL 20000 usec,
reliability 255/255, txload 1/255, rxload 1/255
Encapsulation BROADCAST, loopback not set, keepalive set (10 sec)
Last input never, output never, output hang never
Last clearing of "show interface" counters never
Input queue: 0/75/0 (size/max/drops); Total output drops: 0
Queueing strategy: weighted fair
Output queue: 0/1000/64/0 (size/max total/threshold/drops)
Conversations 0/0/256 (active/max active/max total)
Reserved Conversations 0/0 (allocated/max allocated)
Available Bandwidth 1185 kilobits/sec
5 minute input rate 14 bits/sec, 0 packets/sec
5 minute output rate 63 bits/sec, 0 packets/sec
147 packets input, 13853 bytes, 0 no buffer
Received 0 broadcast, 0 runs, 0 giants, 0 throttles
0 input errors, 0 CRC, 0 frame, 0 overrun, 0 ignored, 0 abort
133 packets output, 10932 bytes, 0 underruns
0 output errors, 0 collisions, 2 interface resets
--More--

[Tab]
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Packet Tracer - Basic Router Configuration Review

Addressing Table

Device	Interface	IP Address
R2	G0/0/0	10.0.4.1/24
		2001.db8.acad.4
		fe80::2a
	G0/0/1	10.0.5.1/24
		2001.db8.acad.5
S0/1/0		10.0.2.2/24
		2001.db8.acad.3
		fe80::1c
	S0/1/1	209.165.200.225
PC1	NIC	2001.db8.feed.22a
		fe80::1d
PC2	NIC	10.0.1.10/24
		2001.db8.acad.1
PC3	NIC	10.0.2.10/24
		2001.db8.acad.2
PC4	NIC	10.0.4.10/24
		2001.db8.acad.4
		10.0.5.10/24
		2001.db8.acad.5

Objectives

Part 1: Configure Devices and Verify Connectivity

- Assign static IPv4 and IPv6 addresses to the PC interfaces.
- Configure basic router settings.
- Configure the router for SSH.
- Verify network connectivity.

Part 2: Display Router Information

- Retrieve hardware and software information from the router.
- Interpret the startup configuration.
- Interpret the routing table.
- Verify the status of the interfaces.

Background / Scenario

This activity requires you to configure the R2 router using the settings from the Addressing Table and the specifications listed. The R1 router and the 1. you will complete basic configurations and interface settings on the router. In Part 2, you will use SSH to connect to the router remotely and utilize provides the commands necessary for specific router configurations.

Instructions

Part 1: Configure Devices and Verify Connectivity

Step 1: Configure the PC interfaces.

- Configure the IPv4 and IPv6 addresses on PC3 as listed in the Addressing Table.
- Configure the IPv4 and IPv6 addresses on PC4 as listed in the Addressing Table.

Step 2: Configure the router.

- On the R2 router, open a terminal. Move to privileged EXEC mode.
- Enter configuration mode.
- Assign a device name of R2 to the router.
- Configure cisco1234 as the encrypted privileged EXEC mode password.
- Set the domain name of the router to cca-lab.com.