

14.3.5 Packet Tracer - Basic Router Configuration Review

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Questions and Answers

Question: Were the pings (PC3 to PC4 IPv4 and IPv6) successful?

Answer: Yes, the pings were successful. Proper addressing and routing were configured.

Question: Were the pings (R2 to S0/1/1 of R1 - IPv4 and IPv6) successful?

Answer: Yes, the pings were successful. The R2 router was properly configured to reach R1.

Question: Were the pings (PC3 to ISP address 209.165.200.226) successful? Answer: Yes, they were successful. The routing path to the ISP is working.

Question: Were the pings (PC3 to 64.100.1.1) successful?

Answer: No, the pings failed. The ISP may not have a route to this external test address.

Question: Was remote access (SSH from PC3 to R2) successful?

Answer: Yes, SSH access was successful using the configured credentials.

Question: What is the name of the IOS image that the router is running?

Answer: The IOS image is typically something like c1900-universalk9-mz.SPA.154-3.M3.bin (actual output may vary slightly depending on Packet Tracer version).

Question: How much non-volatile random-access memory (NVRAM) does the router have?

Answer: The router has 255 KB of NVRAM.

Question: How much Flash memory does the router have?

Answer: The router has 262144 KB (256 MB) of Flash memory.

Question: What is the boot process for the router on the next reload?

Answer: The configuration register value is 0x2102, which means the router will load the IOS from flash and use the startup config.

Question: How are passwords presented in the output?

Answer: Passwords are either shown encrypted (e.g., using type 5 or 7 encryption) or shown as a series of obscured characters, depending on configuration.

Question: What is the result of using show running-config | begin vty?

Answer: This command displays the running configuration starting from the VTY line configuration section.

Question: What code is used in the routing table to indicate a directly connected network?

Answer: The code C indicates a directly connected network.

Question: How many route entries are coded with a C code in the routing table?

Answer: There are typically 4 to 5 directly connected networks, based on the number of active interfaces.

Question: What command changed the status of the Gigabit Ethernet ports from administratively down to up?

Answer: The command no shutdown activated the interfaces.

Question: What filtering command would you use to display only the interfaces with addresses assigned?

Answer: show ip interface brief | include up

Question: What is the meaning of the [up/up] part of the output?

Answer: It means the interface is both administratively up and line protocol is up, so the interface is fully operational.