

## 17.5.9 Packet Tracer - Interpret show Command Output (Instructor Version)

**Instructor Note:** Red font color or gray highlights indicate text that appears in the instructor copy only.

### Objectives

Part 1: Analyze Show Command Output

Part 2: Reflection Questions

### Background

This activity is designed to reinforce the use of router **show** commands. You are not required to configure, but rather to examine the output of several **show** commands. This activity does not automatically provide a score.

### Instructions

#### Part 1: Analyze Show Command Output

- To connect to ISPRouter, Click **ISP PC**, then the **Desktop** tab, followed by **Terminal**.
- Enter privileged EXEC mode.
- Use the following **show** commands to answer the Reflection Questions in Part 2.

**Note:** If a command pauses with the --More--prompt, make certain to hit the spacebar until the **ISPRouter#** prompt appears in order to obtain all of the command output.

```
show arp
show flash:
show ip route
show interfaces
show ip interface brief
show protocols
show users
show version
```

#### Part 2: Reflection Questions

- Which commands can you use to determine the IP address and network prefix of interfaces?

**show ip route, show interfaces, show protocols (before IOS 15, the show ip route command did not display the IP address of the interfaces)**

- Which command provides the IP address and interface assignment, but not the network prefix?

**show ip interface brief**

- Which commands would you use to determine if an interface is up?

**show interfaces, show ip interface brief, show protocols**

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4. You need to determine the IOS version that is running on a router. Which command will give you this information?

**show version**

5. Which commands provide information about the addresses of the router interfaces?

**show arp, show interfaces, show ip route, show ip interface brief, show protocols**

6. You are considering an IOS upgrade and need to determine if router flash can hold the new IOS. Which commands provide information about the amount of Flash memory available?

**show version, show flash**

7. You need to adjust a router configuration, but you suspect that a colleague may also be working on the router from another location. Which command provides information about the lines being used for configuration or device monitoring?

**show users**

8. You have been asked to check the performance of a device interface. Which command provides traffic statistics for router interfaces?

Type your answers here.

**show interfaces**

9. Customers are complaining that they cannot reach a server that they use for file storage. You suspect that the network may have become unreachable due to a recent upgrade. Which command provides information about the paths that are available for network traffic?

**show ip route**

10. Which interfaces are currently active on the ISP Router?

**GigabitEthernet 0/0, Serial 0/0/1**