**NETWORKS AND COMMUNICATIONS**

**ACTIVITY 17.1. Interpret show Command Output**

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| **Section:** | III-BCSAD |
| **Date:** | JUNE 2, 2024 |

**Interpret show Command Output**

# **Instructions (Please Read)**

* **Open the corresponding Packet Tracer Activity (17.1. Interpret show Command Output.pka)**
* **Once the Packet Tracer Activity is opened, go to Options -> User Profile and provide your Full Name and Email Address. DO NOT FORGET THIS STEP!**
* **Proceed with the activity in Packet Tracer and provide answers in the accompanying Activity Document (17.1. Interpret show Command Output.docx).**
* **Once finished, submit this file and the accomplished Packet Tracer activity to the link provided for submission.**

# **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**

a.     To connect to ISPRouter, Click **ISP PC**, then the **Desktop**tab, followed by **Terminal**.

*Open configuration window*

b.     Enter privileged EXEC mode.

c.     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

*Close configuration window*

## **Part 2: Reflection Questions**

1.

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| Which commands can you use to determine the IP address and network prefix of interfaces? |
| Answer: **Show ip route, show interfaces, show protocols (before IOS 15, the show ip route command did not display the IP address of the interfaces)** |

2.

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| Which command provides the IP address and interface assignment, but not the network prefix? |
| Answer: **show ip interface brief** |

3.

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| Which commands would you use to determine if an interface is up? |
| Answer: **show interfaces, show ip interface brief, show protocols** |

4.

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| You need to determine the IOS version that is running on a router. Which command will give you this information? |
| Answer: **show version** |

5.

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| Which commands provide information about the addresses of the router interfaces? |
| Answer: **show arp, show interfaces, show ip route, show ip interface brief, show protocols** |

6.

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| 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? |
| Answer: **show version, show flash** |

7.

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| 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? |
| Answer: **show users** |

8.

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| You have been asked to check the performance of a device interface. Which command provides traffic statistics for router interfaces? |
| Answer: **show interfaces** |

9.

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| 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? |
| Answer: **show ip route** |

10.

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| Which interfaces are currently active on the ISP Router? |
| Answer: **GigabitEthernet 0/0, Serial 0/0/1** |