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ITN261

TCP/IP Utilities Lab

Discussion Questions:

Displaying Computer Information:

1. What is the command used to display the current user in Windows and Linux?

whoami

1. What two commands can be used to obtain system information win Windows?

msinfo32.exe

systeminfo

1. What command can be used to display CPU information in Linux?

lscpu

Displaying DNS Information Using the CLI

1. What command is used to look up DNS information in Windows and Linux?

nslookup

1. What two modes can the above command be executed in?

Interactive and noninteractive

1. What special domain is associated with reverse DNS lookups?

arpa

1. What command is used to display connection information in Windows and Linux?

netstat

1. What is at least one of the command switches for the above command that is the same between Windows and Linux and what function does it perform?

-a

1. If a connection has been made to an available port, what state is that connection in?

Active

Testing Network Connectivity using ping, tracert, and traceroute

1. What command tests only end-to-end connectivity in Windows and Linux?

ping

1. What command is used to test every hop between endpoints from a Windows machine?

tracert

1. What command is used to test every hop between endpoints from a Linux machine?

traceroute

observing the arp process using wireshark

1. The ARP protocol is used to determine what address of a node when what address is known?

MAC and IP addresses

1. What phase is the first half of the ARP process is known as?

request

1. What phase is the second half of the ARP process is known as?

Unicast reply