Cybersecurity Guided Notes (ANSWER KEY)

Lesson 4.1.1 - Network Reconnaissance and Discovery Tools

1. What are reasons to use a command line tool as opposed to a graphical user interface, or GUI-based software tool?

Answers will vary, here are some common answers:

Automation of tool execution and information

Most servers only use CLI to conserve system resources

The command line is also powerful because of the ability to string commands together and make tools interact with one another in ways specific to the task

2. Match the following command line tools with their function

A. tracert/traceroute	Displays the network configuration inform for the machine	ation
B. nslookup/dig	A Determines the route taken over a network reach a target host	< to
C. ipconfig/ifconfig	Port scanner and network mapper tool	
D. nmap	F Shows the table that stores the MAC addresses	esses
E. ping	H Transfers data from one server to another	
F. arp	E Tests the connectivity of machines using letraffic	CMP
G. route	B Query DNS information available from a n server	ame
H. curl	G Can view the route table and alter the rout network traffic is taking	:e



3.	Match the following applications with their function				
	A. the harvester	<u>B</u>	Combines command line tools (whois, ping, etc) to gather intelligence against a system		
	B. Sn1per	<u>C</u>	Gathers intelligence without ever giving away your own IP Address		
	C. scanless	<u></u> F	Sandboxes environment to test files before trying on actual system/server		
	D. dnsenum	<u>E</u>	Similar to nmap, scans the ports for vulnerabilities as well		
	E. Nessus	D	Finds DNS records and all the servers and DNS entries for an organization		
	F. Cuckoo	_A_	Gathers public facing information about a company or domain		
4.	What's the difference between the nslookup and dig commands? Nslookup shows the user the IP Addresses associated with a domain name while dig command can provide more information about the domain address.				
5.	How is pathping similar to traceroute? What's the difference between the two?				
	They both show the path between two hosts, traffic is slow. Thus, trying to find where delay		er pathping also uses ping to locate spots where exist.		
6.	What is the difference between netcat and no	etstat?			
	netcat is a tool that allows a user to read and command is a network statistics tools that dis		rectly to a network interface while the netstat urrent network activity.		





7. Why might someone use the hping command?
Allows the person to create their own packets to test the security of a network against firewalls, open ports, etc.

8. What's the difference between sn1per and scanless?

sn1per can be traced back to the user who ran the scan while scanless cannot be traced back to the user

9. What services/data sources does the Harvester use to gather information?

Answers will vary, some answers might include:

Twitter

Google

Yahoo

Bing

LinkedIn

