CIS 3329 Assignment 2

50 points

due: February 6, 2018

1.	tems	n your home computer answer the following questions. On s, use the ipconfig /all command. If you're using an Apmand ifconfig.	
	(a)	What's the physical (aka MAC) address of one of the inter-	faces on your computer?
			(a) <u>n/a</u>
	(b)	What's the IP address?	
			(b) <u>n/a</u>
	(c)	Is the IP address that you've listed a public routable IP address behind a NAT? What is the private IP address purpose of this type of address? You can find the answer n/a	range and what is the
	(d)	Provide a link to RFC 1918	
		https://tools.ietf.org/html/rfc1918	
	(e)	What are the DNS servers ¹ ?	155.247.225.230
			(e) 155.247.225.231
	(f)	What's the IP address of the default gateway?	
			(f) 129.32.93.129

¹If you're using a Mac or Linux box, you'd find this in the file /etc/resolv.conf.

	` '	p://www.dslreports.com/tools), or one provinc's internet connection. What is your upload	- · · · · · · · · · · · · · · · · · · ·		
			2		
3.		at is the contact information for the networks can be found by using a WHOIS service.	Enterprise Systems Group Temple University Computer Services 7th Floor Wachman Hall 1805 N. BroadStreet Philadelphia, PA 19122		
			<u>UNITES STATES</u> 215 204 5555		
			whois@temple.edu		
4.	Usir	ng $traceroute^2$ from your home computer, $trace$	e the path from your home to stat.elcat.kg.		
	(a)	a) What are some of the major cities that are on the path?			
		Philadelphia New York City			
	Amsterdam Frankfurt		_		
	(b)	b) In the path, can you find your public IP address? If you dont have a home router-firewall, it is likely the IP address on the first line of the tracert output. Otherwise, it's probably the address on the next line. (If you're behind a home router-firewall, you can cheat to find out your public IP address by going to a website like http://checkip.dyndns.org or http://www.whatismyip.com)			
			(b) n/a		
	(c) In a web browser, go to the page http://stat.elcat.kg/trace.cgi, and do a trace to your home public IP address. Is the list on the path exactly the reverse o path that you found in the last question? If it isn't, why do you suppose that might be?				
		n/a			

 $2.\,$ Using an internet speed test, for example, like the one at DSLReports

²on Windows operating systems, the command is typed tracert

5.	DNS	S				
	(a)	What are some IP addresses for gmail.com?				
		172.217.2.5				
		216.58.197				
	(b)	What are the name servers for drexel.edu? noc2.drexel.edu				
		noc.drexel.edu				
	(c)	What is the mail server for temple.edu?				
		(c) Google GMail				
6.	Enter your public home IP address into an online address location tool (<u>e.g.</u> , Geobytes.com). How accurate were the results? How do you suppose such an address location tool might work?					
	,,,,,,,	n/a				
	on the ability of an ISP to provide a certain quality of service for a particular class of data? For example, is it easy for my ISP guarantee that all of my VoIP traffic will get a low delay, and why? Difficult for ISP to guarantee a low delay, your internet provider cannot guarantee bandwidth as it's shared across all customers and has					
	arrangements with other ISPs.					
8.	Hon	ne wireless				
	(a)	Do you have a home wireless access point?				
		(a) <u>n/a</u>				
		If your answer to part (a) is no, pick a wireless access point online and look up its specifications to answer the remaining questions.				
	(b)	Which wireless standard does if follow?				
		(b) <u>n/a</u>				
	(c)	What is the maximum bit rate of this wireless standard?				
		(a) n/a				

-	n/ a
e) `	What is the approximate range of the signal of your home wireless access point?
-	11/ a
,	Which wireless encryption technologies are available on the access point? Which do you have enabled?
-	ΠV a
٠,	What is an SSID (note that we're not asking for your access point's SSID, rather, we're asking about SSID's in general)? How does turning off SSID broadcast affect the security of your home network? Is this foolproof? Why or why not?
, ,	
-	ne desired network when there are multiple networks are operating in the same hysical area. Turning off the SSID and not broadcasting the name of your netwo