CZ3006/C	EE3005: Netcentric/Co	mputer Networks		
Student N	Name :			
Group	:	· · · · · · · · · · · · · · · · · · ·		
Date	:			
LAB 3: A	ANALZING NETWO	RK DATA LOG		
	e provided with the o to extract the following		ne working directory. Write the	
EXERCIS	SE 3A: TOP TALKEI	RS AND LISTENERS		
the hosts packets, obtained	that send out large a usually know as TOF	amount of packet and hosts	ta log is finding out the IP address that receive large number of S. Based on the IP address we ca	
Rank	IP address	# of packets	Organisation	
1				
2 3 4 5				
3				
4				
5				
TOP 5 LIS	STENERS			
Rank	IP address	# of packets	Organisation	
1	·			
2				
3				
4				
5				
				
	SE 3B: TRANSPORT		tage of TCP and UDP protocol	
	IP protocol type attr	ibute, determine the percen		
Using the			tage of TCP and UDP protocol # of packets	
Using the	IP protocol type attr	ibute, determine the percen		
Using the	IP protocol type attr	ibute, determine the percen		
Using the	IP protocol type attr	ibute, determine the percen		

EXERCISE 3C: APPLICATIONS PROTOCOL

Using the Destination IP port number determine the most frequently used application protocol.

Rank	Destination IP port number	# of packets	Service
1			
2			
3			
4			
5			

EXERCISE 3D: TRAFFIC INTENSITY

The traffic intensity is an important parameter that a network engineer needs to monitor closely to determine if there is congestion. You would use the IP packet size to calculate the estimated total traffic over the monitored period of 15 seconds. (Assume the sampling rate is 1 in 1000)

Total Traffic(MB)

EXERCISE 3E: ADDITIONAL ANALYSIS (BONUS MARKS)

Please described additional analysis of the data and how it is useful. Please use a separate sheet to submit your new graphs and observations. Your report for this exercise is limited to 2 pages. The answer template and the two page additional analysis are to be submitted to your e-learning drive.

Examples

- Visulisation using scatter graph of port and IP address to determine if a specific node been port scanned by another node.
- Which is the most popular node that provide service on port 80, port= 443?

You must analise and explain the graphs. Please do not be limited by the above examples.

EXERCISE 3F: SOFTWARE CODE

Please attach a softcopy of your code to the e-learning drive.