ECE 404 Homework 8

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1 Port Scanning

This image shows a portion of the result when port scanning was performed on IP address 192.168.1.1 using IP address 192.168.1.20. Most ports shown in this image are closed, but port 53 is detected to be open. The port scan from port 0 to port 1000 took approximately a minute and a half.



2 SYN Flood Attack

This image shows a portion of the result of a SYN flood attack performed on IP address 192.168.1.1 using the spoof IP address 192.168.1.50. The source port is a randomly generated integer between 1024 and 65536 (non-"well-known" ports) and the destination port and number of SYN packets sent are as specified in the method call.

No.	^	Time	Source	Destination	Protocol L	ength	Info
	4698	123.243227	192.168.1.50	192.168.1.1	TCP	54 !	54723 → 53 [SYN] Seq=0 Win=8192 Len=0
	4699	123.245020	192.168.1.50	192.168.1.1	TCP	54 !	54467 → 53 [SYN] Seq=0 Win=8192 Len=0
	4700	123.246755	192.168.1.50	192.168.1.1	TCP	54 :	15015 → 53 [SYN] Seq=0 Win=8192 Len=0
	4701	123.248538	192.168.1.50	192.168.1.1	TCP	54 !	57934 → 53 [SYN] Seq=0 Win=8192 Len=0
	4702	123.254666	192.168.1.50	192.168.1.1	TCP	54 4	45418 → 53 [SYN] Seq=0 Win=8192 Len=0
	4703	123.256586	192.168.1.50	192.168.1.1	TCP	54	33991 → 53 [SYN] Seq=0 Win=8192 Len=0
	4704	123.268455	192.168.1.50	192.168.1.1	TCP	54 !	58176 → 53 [SYN] Seq=0 Win=8192 Len=0
	4705	123.270593	192.168.1.50	192.168.1.1	TCP	54	31075 → 53 [SYN] Seq=0 Win=8192 Len=0
	4706	123.273114	192.168.1.50	192.168.1.1	TCP	54 (63707 → 53 [SYN] Seq=0 Win=8192 Len=0
	4707	123.277727	192.168.1.50	192.168.1.1	TCP	54	28331 → 53 [SYN] Seq=0 Win=8192 Len=0
	4708	123.279951	192.168.1.50	192.168.1.1	TCP	54 :	17208 → 53 [SYN] Seq=0 Win=8192 Len=0
	4709	123.281773	192.168.1.50	192.168.1.1	TCP	54	37183 → 53 [SYN] Seq=0 Win=8192 Len=0
	4710	123.283887	192.168.1.50	192.168.1.1	TCP	54 !	59519 → 53 [SYN] Seq=0 Win=8192 Len=0
	4711	123.286482	192.168.1.50	192.168.1.1	TCP	54 !	57288 → 53 [SYN] Seq=0 Win=8192 Len=0
	4712	123.288552	192.168.1.50	192.168.1.1	TCP	54 !	54255 → 53 [SYN] Seq=0 Win=8192 Len=0
	4713	123.290897	192.168.1.50	192.168.1.1	TCP	54 !	51223 → 53 [SYN] Seq=0 Win=8192 Len=0
	4714	123.293046	192.168.1.50	192.168.1.1	TCP	54 !	58736 → 53 [SYN] Seq=0 Win=8192 Len=0
	4715	123.295887	192.168.1.50	192.168.1.1	TCP	54	46677 → 53 [SYN] Seq=0 Win=8192 Len=0
	4716	123.302679	192.168.1.50	192.168.1.1	TCP	54 :	1648 → 53 [SYN] Seq=0 Win=8192 Len=0
	4717	123.304895	192.168.1.50	192.168.1.1	TCP	54 (64871 → 53 [SYN] Seq=0 Win=8192 Len=0
	4718	123.306628	192.168.1.50	192.168.1.1	TCP	54	27256 → 53 [SYN] Seq=0 Win=8192 Len=0
	1710	100 000076	102 160 1 50	100 160 1 1	TCD	5/	27515 . 52 [CVN] Cag-A Win-0102 Lan-A