Ethan James Epjames 33378430

HW08



Figure 1: Snapshot of port 1716 and the 100 syn packets flooding part The block of gray is the open port with the attacks.

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ip.addr==128.46.144.12	23			⊠ □
		Destination	Doobsood	
No. Time	Source	Destination		Length Info
7067 304.199086 7068 304.276285	128.46.144.123	10.186.97.170	TCP	54 3124 → 64273 [RST, ACK] Seq=1 Ack=1 Win=0 Len=0
	10.186.97.170	128.46.144.123	TCP	66 64274 → 3125 [SYN] Seq=0 Win=64240 Len=0 MSS=1460 WS=256 SACK_PERM
7069 304.386307		128.46.144.123	TCP	66 64275 → 3126 [SYN] Seq=0 Win=64240 Len=0 MSS=1460 WS=256 SACK_PERM
7070 304.401572	128.46.144.123	10.186.97.170	TCP	54 3125 → 64274 [RST, ACK] Seq=1 Ack=1 Win=0 Len=0
7071 304.401572	128.46.144.123	10.186.97.170	TCP	54 3126 → 64275 [RST, ACK] Seq=1 Ack=1 Win=0 Len=0
7072 304.496360	10.186.97.170	128.46.144.123	TCP	66 64276 → 3127 [SYN] Seq=0 Win=64240 Len=0 MSS=1460 WS=256 SACK_PERM
7073 304.513212	128.46.144.123	10.186.97.170	TCP	54 3127 → 64276 [RST, ACK] Seq=1 Ack=1 Win=0 Len=0
7074 304.606467	10.186.97.170	128.46.144.123	TCP	66 64277 → 3128 [SYN] Seq=0 Win=64240 Len=0 MSS=1460 WS=256 SACK_PERM
7075 304.649380	128.46.144.123	10.186.97.170	TCP	66 3128 → 64277 [SYN, ACK] Seq=0 Ack=1 Win=64240 Len=0 MSS=1250 SACK_PERM WS=128
7076 304.649590	10.186.97.170	128.46.144.123	TCP	54 64277 → 3128 [ACK] Seq=1 Ack=1 Win=131072 Len=0
7077 304.650154	10.186.97.170	128.46.144.123	TCP	54 64277 → 3128 [FIN, ACK] Seq=1 Ack=1 Win=131072 Len=0
7078 304.651174	10.186.97.170	128.46.144.123	TCP	66 64278 → 3129 [SYN] Seq=0 Win=64240 Len=0 MSS=1460 WS=256 SACK_PERM
7079 304.730820	128.46.144.123	10.186.97.170	TCP	54 3129 → 64278 [RST, ACK] Seq=1 Ack=1 Win=0 Len=0
7080 304.730820	128.46.144.123	10.186.97.170	TCP	54 3128 → 64277 [FIN, ACK] Seq=1 Ack=2 Win=64256 Len=0
7081 304.730941	10.186.97.170	128.46.144.123	TCP	54 64277 → 3128 [ACK] Seq=2 Ack=2 Win=131072 Len=0
7082 304.764401	10.186.97.170	128.46.144.123	TCP	66 64279 → 3130 [SYN] Seq=0 Win=64240 Len=0 MSS=1460 WS=256 SACK_PERM
7083 304.805403	128.46.144.123	10.186.97.170	TCP	54 3130 → 64279 [RST, ACK] Seq=1 Ack=1 Win=0 Len=0
7084 304.874974	10.186.97.170	128.46.144.123	TCP	66 64280 → 3131 [SYN] Seq=0 Win=64240 Len=0 MSS=1460 WS=256 SACK_PERM
7085 304.940600	128.46.144.123	10.186.97.170	TCP	54 3131 → 64280 [RST, ACK] Seq=1 Ack=1 Win=0 Len=0
7086 304.983896	10.186.97.170	128.46.144.123	TCP	66 64281 → 3132 [SYN] Seq=0 Win=64240 Len=0 MSS=1460 WS=256 SACK_PERM
7087 305.000349	128.46.144.123	10.186.97.170	TCP	54 3132 → 64281 [RST, ACK] Seq=1 Ack=1 Win=0 Len=0
7088 305.093538	10.186.97.170	128.46.144.123	TCP	66 64282 → 3133 [SYN] Seq=0 Win=64240 Len=0 MSS=1460 WS=256 SACK_PERM
7089 305.138143	128.46.144.123	10.186.97.170	TCP	54 3133 → 64282 [RST, ACK] Seq=1 Ack=1 Win=0 Len=0
7090 305.203642	10.186.97.170	128.46.144.123	TCP	66 64283 → 3134 [SYN] Seq=0 Win=64240 Len=0 MSS=1460 WS=256 SACK_PERM
7091 305.266427	128.46.144.123	10.186.97.170	TCP	54 3134 → 64283 [RST. ACK] Seg=1 Ack=1 Win=0 Len=0

Figure 2: Snapshot of port 3128 and the 100 syn packets flooding part The block of gray is the open ports with the syn packets

In my code I first begin with scanning ports. This identifies the open ports which are 1716 and 3128 and outputs it to an output file. Basically I run through a range of ports and identify which ports are open and then I convert those values into a string and output to an output file

Then I go through the attack function. We first set the source and destination of the IP address. Then we create the TCP header and a random source port and we set the destination port. Then we send the packets and any possible exceptions are printed.