Performing a Denial-of-Service Attack

Cyberwarfare: Information Operations in a Connected World, Second Edition - Lab 01

Student:	Email:
Truc Huynh	huyntl02@pfw.edu
Time on Task:	Progress:
3 hours, 17 minutes	100%

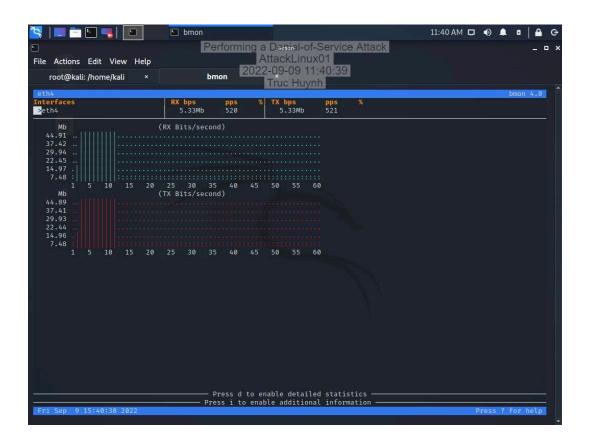
Report Generated: Friday, September 9, 2022 at 1:52 PM

Hands-On Demonstration

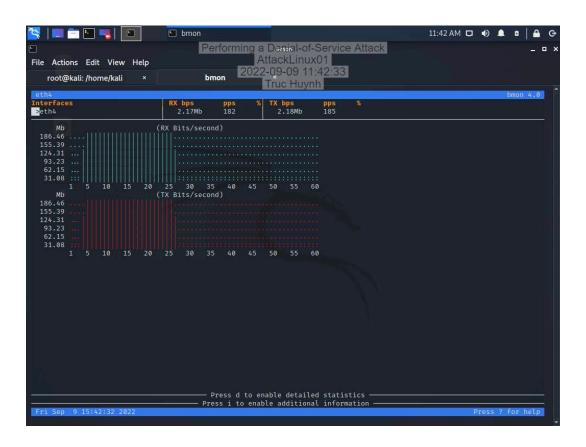
Part 1: Perform Reconnaissance and Simple DoS Attacks

5. Make a screen capture showing the results of your Nmap scan.

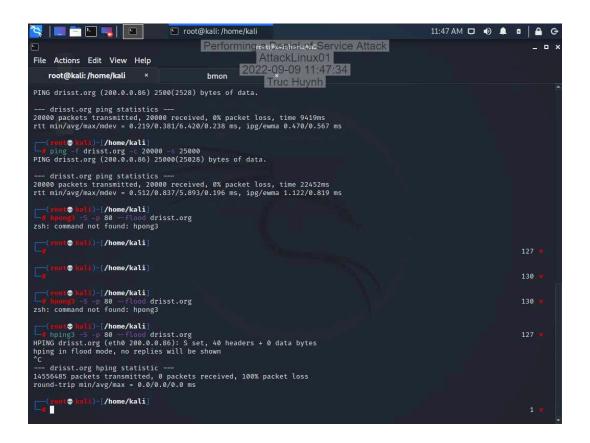
14. Make a screen capture showing the bmon results for the ping flood used to demonstrate a volumetric DoS attack.



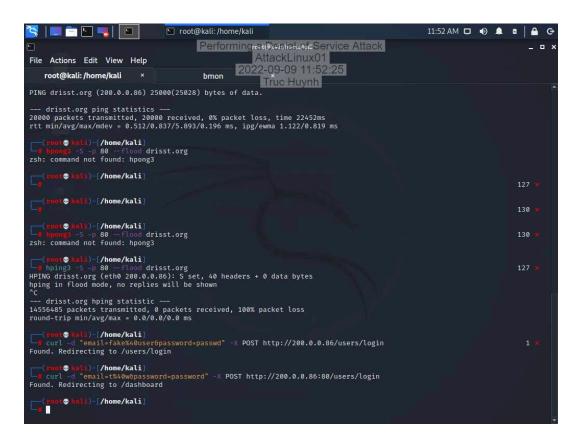
18. Make a screen capture showing the bmon results for the second ping flood used to demonstrate a volumetric DoS attack.



24. Make a screen capture showing the output for the hping command used to demonstrate a protocol-based DoS attack.

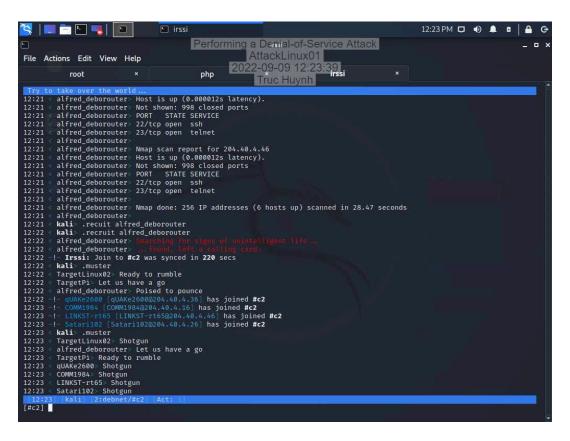


27. Make a screen capture showing the results of the two curl commands used to demonstrate an application-based DoS attack.



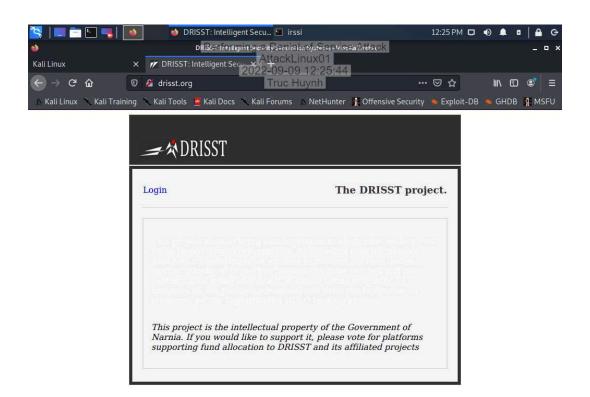
Part 2: Assemble a Botnet

26. Make a screen capture showing the newly recruited hosts.

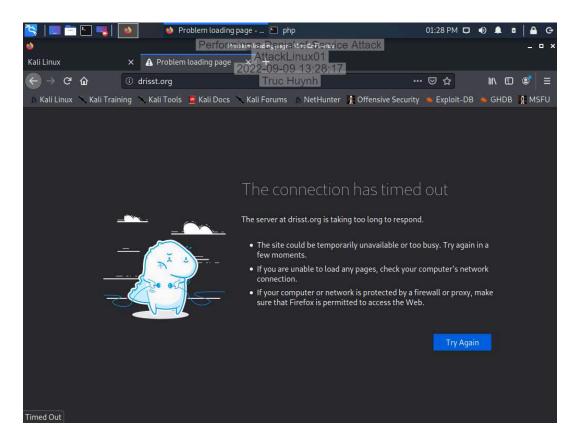


Part 3: Conduct a DDoS Attack

3. Make a screen capture showing the drisst.org webpage.



21. Make a screen capture showing the failed connection to drisst.org.



23. Make a screen capture showing the "PF states limit reached" error message.

```
2022-09-09T17:09:01.657098+00:00 pfSense.home.arpa watchfrr 38625
 ground command [pid 73993]: /usr/local/etc/rc.d/frr restart all
kground command Ipid 739931: /usr/local/etc/lc.u/111 lestalt all
2022-09-09T17:09:01.657156:98:98 pfSense houe arps watchfry 38625
                                                                                                                 [EC 268435
457] staticd state -> unresponsive : ng response yet to ping sent 30 seconds ago
2022-09-09T17:09:01.657207+00:00 pfSense hore.arpa watchfrr 38625 - - [EC 268435
457] bgpd state -> unresponsiva . na responsa yet ta ping sent 30 seconds ago
2022-09-09T17:09:01.657269+00:00 pfSense.home.arpa watchfrr 38625 - - zebra: slo
w echo response finally received after 256.525319 seconds
2022-09-09T17:09:01.657376+00:00 pfSense.home.arpa watchfrr 38625 - - staticd: s
low echo response finally received after 123.841182 seconds

[zone: pf states] PF states limit reached

2022-09-09T17:14:31.182064+00:00 pfSense.home.arpa watchfrr 38625 -
313] SLOW THREAD: task handle_read (207be0) ran for 7552ms (cpu time 0ms)
2022-09-09T17:14:48.574299+00:00 pfSense.home.arpa watchfrr 38625 - - [EC 100663
313] SLOW THREAD: task handle_read (207be0) ran for 7660ms (cpu time 0ms)
2022-09-09T17:15:07.094985+00:00 pfSense.home.arpa watchfrr 38625 - - IEC 100663
313] SLOW THREAD: task wakeup_send_echo (208290) ran for 6122ms (cpu time 0ms)
2022-09-09T17:15:26.797987+00:00 pfSense.home.arpa watchfrr 38625 - - [EC 100663
313] SLOW THREAD: task handle_read (207be0) ran for 11174ms (cpu time 0ms)
2022-09-09T17:15:43.819318+00:00 pfSense.home.arpa watchfrr 38625 - - [EC 100663
313] SLOW THREAD: task handle_read (207be0) ran for 5504ms (cpu time 0ms)
[zone: pf states] PF states limit reached
Izone: pf states] PF states limit reached
Izone: pf states] PF states limit reached
```

Challenge and Analysis

Make a screen capture showing the peak traffic generated in bmon while performing a DDoS SYN flood attack.

