Lab 2: Packet Analysis II

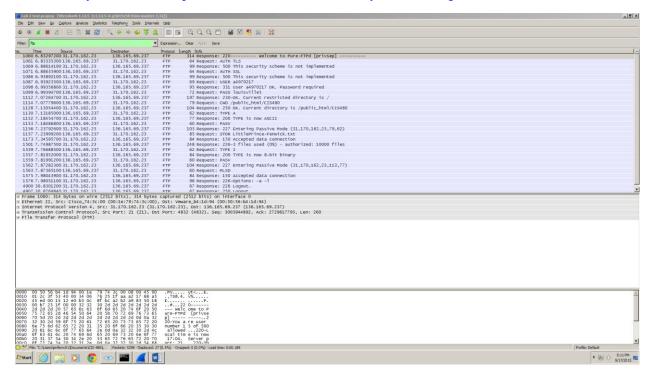
- This is an individual assignment, and is worth 10 points.
- You need to provide your answers using the accompanying submission file. Change the file name following the naming convention suggested below.
- Naming convention is as follows: homework, underscore, last name, first initial, and extension (e.g., Lab 1_ImG.docx). If you do not follow the convention, I will deduct 0.5.
- Do not copy any of the sample screenshots provided as illustrations.

1. Figuring out IP addresses

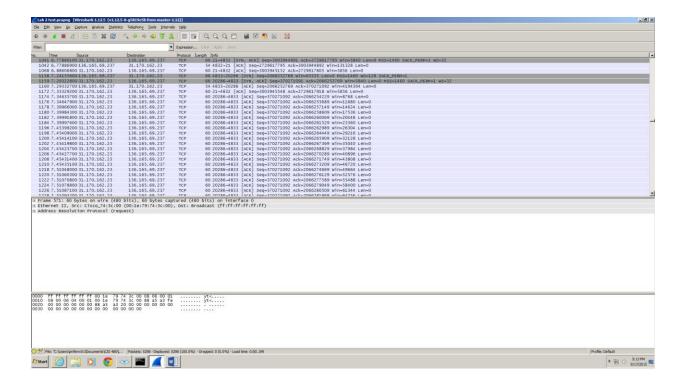
- Task
 - a. Report the IP address of your host (use ipconfig /all). 192.168.43.1
 - b. Report the IP address of your Kali (use if config /all). 192.168.18.128

2. Analyzing FTP Signatures

- Task
 - c. Identify the three TCP packets used for the initial 3-way handshaking. Take a screenshot for it.

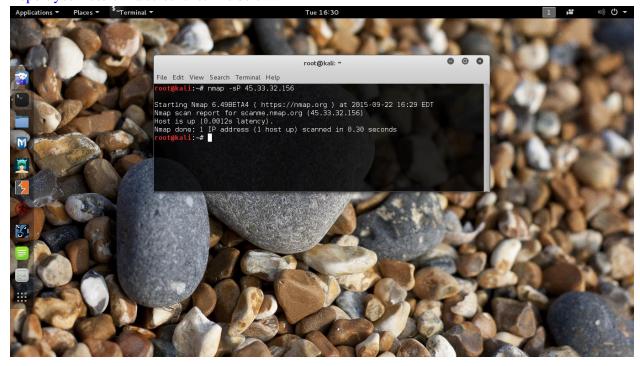


d. Identify the FTP packets that show Username and Password in plaintext. Take a screenshot for it.



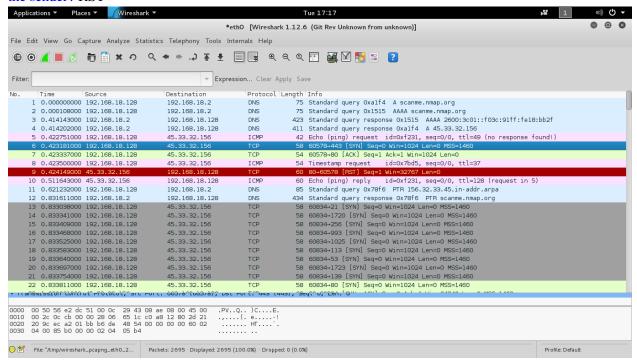
3. Ping Sweeping

- Task
- o Report your result in a screenshot like below.



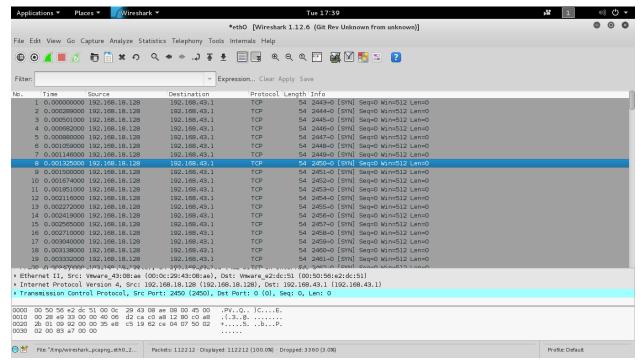
4. Port Scanning

- Task
- Answer the following questions. Provide a screenshot for each question to support your answer.
 - a. What TCP packet (e.g., SYN, SYN/ACK, ACK, etc.) was sent from the sender to the receiver at first? SYN
 - b. How did the sender recognize that the specific port (e.g., port 80) of the receiver is open? That is, what TCP packet (e.g., SYN, SYN/ACK, ACK, etc.) was sent from the receiver to the sender? RST



5. SYN Flooding Attack

- Task
- Launch a SYN flooding attack using the IP address of your host as the target and an arbitrary private IP address as the spoofed address.
 - a. Report your result in a screenshot like above.



b. What ports did the attacker use for the SYN flooding attack? Give a sample range of ports you observe.

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