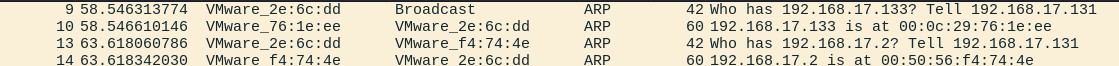
***3. Searching a. Open the arpscan.pcapng file in Wireshark.***

***b. Apply the arp filter and take a screenshot***

******

***Reflection Questions***

***1. How can arp packets be used to identify a network scan?*** ARP packets can identify a network scan by detecting an unusual volume of ARP requests

***2. Why might this knowledge be valuable to a network administrator?*** This knowledge helps administrators detect potential reconnaissance activities and respond to unauthorized scans to protect the network

***3. What can be done to limit the scope of this type of attack?*** Implement ARP inspection, segment the network, monitor traffic, and use firewalls and IDS to mitigate the impact of ARP-based attacks***.***

***Hydra Hacking***

***iii. Open the password list and take a screenshot.***

***A screen shot of a computer

Description automatically generated***

***vii. Scroll to the end of the last stream and take a screenshot.***

***Reflection Questions***

***1. What is a TCP stream?*** A TCP stream is a sequence of packets exchanged between two endpoints in a TCP connection***.***

***2. What do the different text colors in wireshark’s TCP stream window mean?*** The text colors in Wireshark’s TCP stream window differentiate between various types of data or protocols

***3. What username and password combination successfully authenticated to Metasploitable’s TCP server?***

***4. How might a program be better able to analyze these types of packets?*** A program could analyze packets more effectively by employing advanced parsing techniques, pattern recognition, and integrationwith other analytical tools.