## Digital Forensics-Lab 08

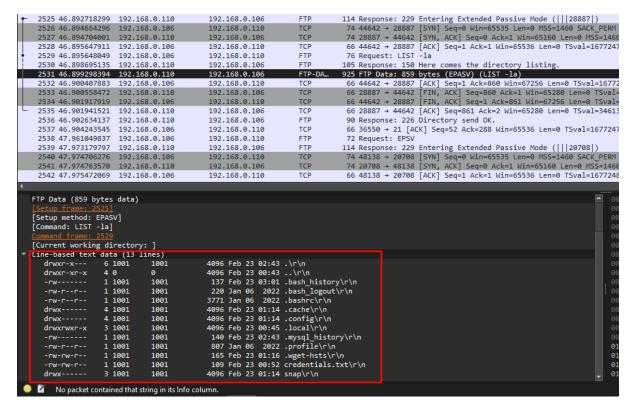
## Ahmad Abdullah i22-1609

- 1. FTP, TCP, MYSQL, HTTP
- 2. The Attacker brute-forced the FTP login using a dictionary attack. And with this, the attacker found the password of the FTP login as 'batman'.

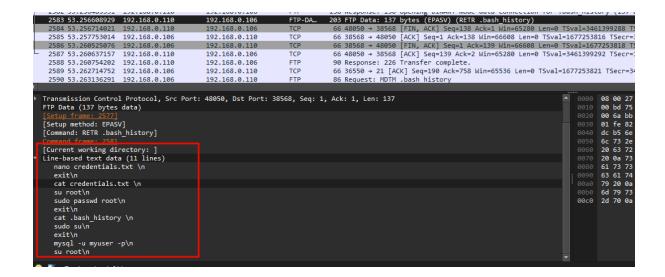
3. The attacker ran some commands to get the information of the system and found some critical files that had sensitive information through a bunch of commands that were allowed execution.

```
2508 44.506264157 192.168.0.106 192.168.0.110 TCP
2509 44.507408326 192.168.0.106 192.168.0.110 FTP
2510 44.507417346 192.168.0.101 192.168.0.106 TCP
2511 44.508053109 192.168.0.101 192.168.0.106 FTP
2512 44.509085897 192.168.0.101 192.168.0.106 FTP
2513 44.509085897 192.168.0.101 192.168.0.106 FTP
2514 44.509389941 192.168.0.101 192.168.0.106 FTP
2515 44.50971367 192.168.0.101 192.168.0.106 FTP
2515 44.50971367 192.168.0.101 192.168.0.106 FTP
2516 44.5102109575 192.168.0.110 192.168.0.106 FTP
2517 44.510420167 192.168.0.110 192.168.0.106 FTP
2518 44.510240147 192.168.0.106 FTP
2519 44.511214727 192.168.0.110 192.168.0.106 FTP
2519 44.511214727 192.168.0.110 192.168.0.106 FTP
2519 44.51208338 192.168.0.110 192.168.0.106 FTP
2519 44.51208338 192.168.0.110 192.168.0.106 FTP
2519 44.51210818 192.168.0.110 192.168.0.106 FTP
2519 44.51210819 192.168.0.110 192.168.0.106 FTP
2519 44.51210819 192.168.0.110 192.168.0.106 FTP
2519 44.51210819 192.168.0.110 192.168.0.106 FTP
2510 44.51210819 192.168.0.100 192.168.0.100 FTP
2510 44.51210819 192.168.0.100 192.168
```

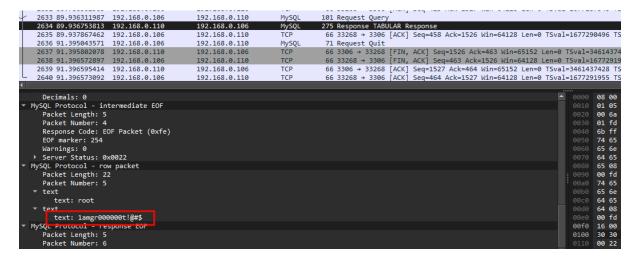
Here, the attacker executed a command 'LIST-la' by which they got all the directories and files in the home directory of the FTP account.



4. The attacker Logged into the MySQL account and performed some queries to gain the root account password.



5. After running the query *select* \* *from root\_credentials* the server replies with the root account username and its password.



6. Packet Number: 2561

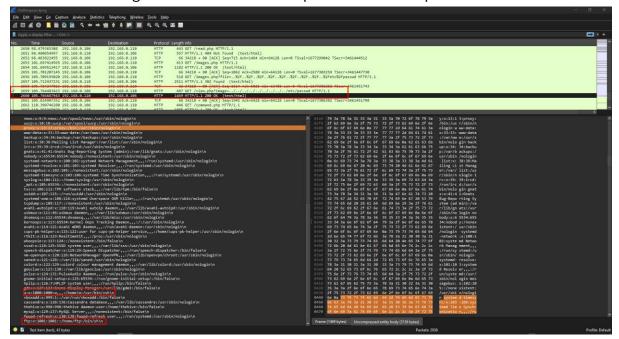
Payload: RETR credentials.txt

| The | Column | Section |

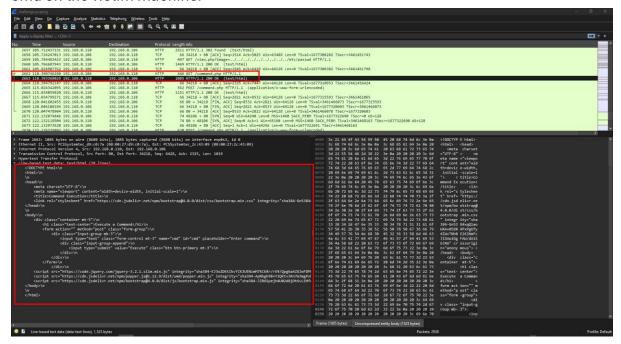
7. After gaining access to the machine the attacker tries to exploit the web server and to find if the attacker can access files that shouldn't be accessible otherwise. By using path traversal vulnerability the attacker get access to /etc/passwd file.

```
2641 96.899575976 192.168.0.106 192.168.0.106 TCP 74 34218 + 80 [SYN] Seq-0 Min-64240 Len-0 MSS-1460 SACK_PERM TSVal=1677297449 TSecr-0 WS-128 2643 96.891263949 192.168.0.106 192.168.0.106 TCP 74 80 + 34218 [SYN, ACK] Seq-0 Ack-1 Min-65160 Len-0 MSS-1460 SACK_PERM TSVal=3461442922 TSecr=1677297449 WS-128 2644 96.895992120 192.168.0.106 192.168.0.106 TCP 66 34218 + 80 [ACK] Seq-1 Ack-3 Min-64256 Len-0 TSVal=1677297451 TSecr=346144292 TSecr=1677297449 WS-128 2646 96.895392120 192.168.0.106 TCP 66 34218 + 80 [ACK] Seq-1 Ack-3 Min-64266 Len-0 TSVal=3461442926 TSecr=346142292 TSecr=1677297449 WS-128 2646 96.897349337 192.168.0.110 192.168.0.106 HTTP 1838 HTTP/1.1 200 0K (text/html) 192.168.0.110 192.168.0.106 TCP 66 34218 + 80 [ACK] Seq-1 Ack-3 Min-6426 Len-0 TSVal=3461442926 TSecr=3461442929 (Seq-38) Ack-8973 Min-64128 Len-0 TSVal=3461442927 TSecr=3461442929 (Seg-38) 48 (Seq-38) Ack-8973 Min-64128 Len-0 TSVal=3461442975 TSecr=3461444512 (Seg-34) Ack-8973 Min-64128 Len-0 TSVal=3461442975 TSecr=3461444512 (Seg-34) Ack-8973 Min-64128 Len-0 TSVal=167729942 TSecr=3461444512 (Seg-34) Ack-8913 Min-64128 Len-0 TSVal=167729942 TSecr=3461444512 (Seg-34) Ack-8913 Min-64128 Len-0 TSVal=167729942 TSecr=3461444512 (Seg-34) Ack-8913 Min-64128 Len-0 TSVal=167729942 TSecr=346144512 (Seg-34) Ack-8913 Min-64128 Len-0 TSVal=167739259 TSecr=346144730 (Seg-34) Ack-8913 Min-64128 Len-0 TSVa
```

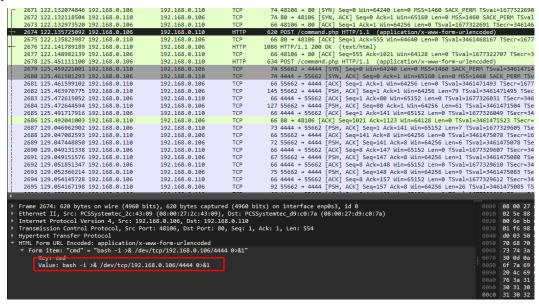
8. Here the attacker gets the contents of /etc/passwd file as response.



9. The attacker downloaded the file *command.php* which executes a command on cmd on the victim machine.



10.



The information that was transmitted by attacker after running few commands was:

"Congrats on getting here. But that's not it, the real test starts now!;)

Btw, here's your flag for this stage: flag{1\_4m\_gr00000t!}"

