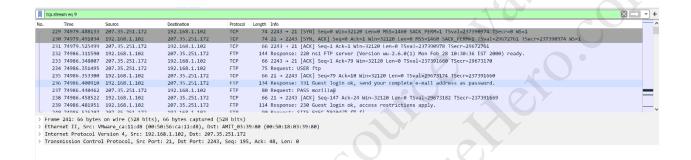
Using Wireshark, open the PacketCapture.log file (a packet trace of a network security incident) and analyze the traffic to answer the following questions. Take good notes. Some background information about the security incident (i.e. clues):

On September 16th a Redhat Linux 6.2 honeypot was compromised. The compromised system has an IP of 192.168.1.102. After successfully breaking into the box, the attacker ended up using 3 modes of connecting and running commands (some of this activity is encrypted).

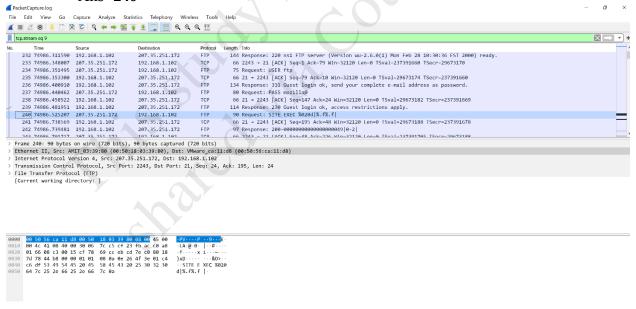
- 1. The intruder used FTP as part of their activities.
  - a) Which vulnerability did the intruder exploit (i.e. other than just saying "FTP")? Ans-

331 Guest login ok, send your complete e-mail address as password 230 Guest login ok, access restriction apply.

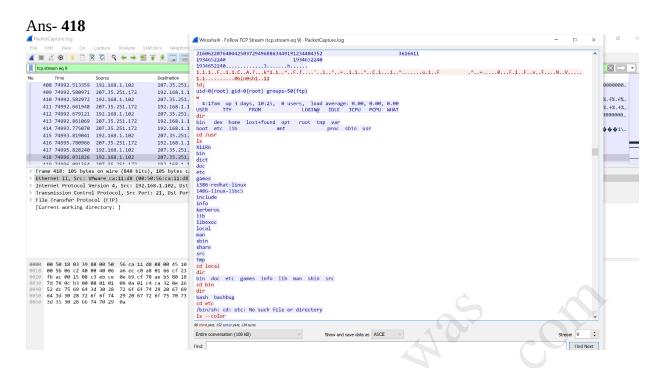


```
oldsymbol{\underline{/}} Wireshark \cdot Follow TCP Stream (tcp.stream eq 9) \cdot PacketCapture.log
                                                                                                                                                                                                                                                                          П
                                                                                                                                                                                                                                                                                        ×
  220 ns1 FTP server (Version wu-2.6.0(1) Mon Feb 28 10:30:36 EST 2000) readv.
  USER ftp
  331 Guest login ok, send your complete e-mail address as password.
  PASS mozilla@
  230 Guest login ok, access restrictions apply.
  SITE EXEC %020d|%.f%.f|
  200-00000000000000000049 | 0-2 |
  200 (end of '%020d|%.f%.f|')
  SITE EXEC 7
  \% . \% . \% . \% . \% . \% . \% . \% . \% . \% . \% . \% . \% . \% . \% . \% . \% . \% . \% . \% . \% . \% . \% . \% . \% . \% . \% . \% . \% . \% . \% . \% . \% . \% . \% . \% . \% . \% . \% . \% . \% . \% . \% . \% . \% . \% . \% . \% . \% . \% . \% . \% . \% . \% . \% . \% . \% . \% . \% . \% . \% . \% . \% . \% . \% . \% . \% . \% . \% . \% . \% . \% . \% . \% . \% . \% . \% . \% . \% . \% . \% . \% . \% . \% . \% . \% . \% . \% . \% . \% . \% . \% . \% . \% . \% . \% . \% . \% . \% . \% . \% . \% . \% . \% . \% . \% . \% . \% . \% . \% . \% . \% . \% . \% . \% . \% . \% . \% . \% . \% . \% . \% . \% . \% . \% . \% . \% . \% . \% . \% . \% . \% . \% . \% . \% . \% . \% . \% . \% . \% . \% . \% . \% . \% . \% . \% . \% . \% . \% . \% . \% . \% . \% . \% . \% . \% . \% . \% . \% . \% . \% . \% . \% . \% . \% . \% . \% . \% . \% . \% . \% . \% . \% . \% . \% . \% . \% . \% . \% . \% . \% . \% . \% . \% . \% . \% . \% . \% . \% . \% . \% . \% . \% . \% . \% . \% . \% . \% . \% . \% . \% . \% . \% . \% . \% . \% . \% . \% . \% . \% . \% . \% . \% . \% . \% . \% . \% . \% . \% . \% . \% . \% . \% . \% . \% . \% . \% . \% . \% . \% . \% . \% . \% . \% . \% . \% . \% . \% . \% . \% . \% . \% . \% . \% . \% . \% . \% . \% . \% . \% . \% . \% . \% . \% . \% . \% . \% . \% . \% . \% . \% . \% . \% . \% . \% . \% . \% . \% . \% . \% . \% . \% . \% . \% . \% . \% . \% . \% . \% . \% . \% . \% . \% . \% . \% . \% . \% . \% . \% . \% . \% . \% . \% . \% . \% . \% . \% . \% . \% . \% . \% . \% . \% . \% . \% . \% . \% . \% . \% . \% . \% . \% . \% . \% . \% . \% . \% . \% . \% . \% . \% . \% . \% . \% . \% . \% . \% . \% . \% . \% . \% . \% . \% . \% . \% . \% . \% . \% . \% . \% . \% .
  000-2-240nan|bfffdc7e|00000000|
  200 (end of
  %08x|')
   + \% \cdot + \%
  200-7
  000-2-240nan0|bfffdaf8|400be7ed|
  SITE EXEC 7
  %08x | %08x |
  000-2-240nan03|bfffdaf8|400c128b|
 200 (end of '7
90 client pkts, 152 server pkts, 134 turns.
```

b) What packet number begins the FTP attack **on the SITE**? Ans- **240** 



c) Which packet number indicates the FTP attack succeeded?



Name a few of the commands (or actions) the intruder ran on the system.
 Ans- SITE EXEC(%020d|%.f%.f|
 USER FTP

3. The intruder downloaded 3 rootkits, what were they called? Can ZERO or ZERO be one of THREE?

Ans- Zero.tar.gz Copy.tar.gz Ooty.tar.gz



This study source was downloaded by 100000830993848 from CourseHero.com on 08-30-2021 15:14:40 GMT -05:00

- 4. The intruder used SSH as part of their activities.
  - a) What port was the SSH daemon installed on? **LESS THAN FORTY**

## Ans- 23

b) What SSH client did the hacker use? What operating system? **Ans- SSH-1.5-1.2.27 and the operating system is windows.** 



Optional questions (advanced & challenging):

- 5. What does the rootkit do to hide the presence of the attacker on the system?
- 6. Recover (tell how you did it too) the rootkits from the snort binary capture.

Mis stady