LAB 7

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Scenario 2: FTP Server Attack Investigation

Scenario 2

Client network attack

Triggering Events:

- ➤ A denial of service (DoS) attack has been reported against FTP server 192.168.56.1
- >FTP traffic spikes were seen prior to the FTP server being taken offline

What We Know:

Captured traffic data that is narrowed down between an attacking host (192.168.56.101) and the FTP server (192.168.56.1)

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Scenario 2

A little more abstract

- ➤ What caused the spike in FTP traffic
- ➤ What events took place prior to the FTP server being taken offline?

(E.g. Were any files transferred to/from the FTP server or were any user accounts compromised)

Objective

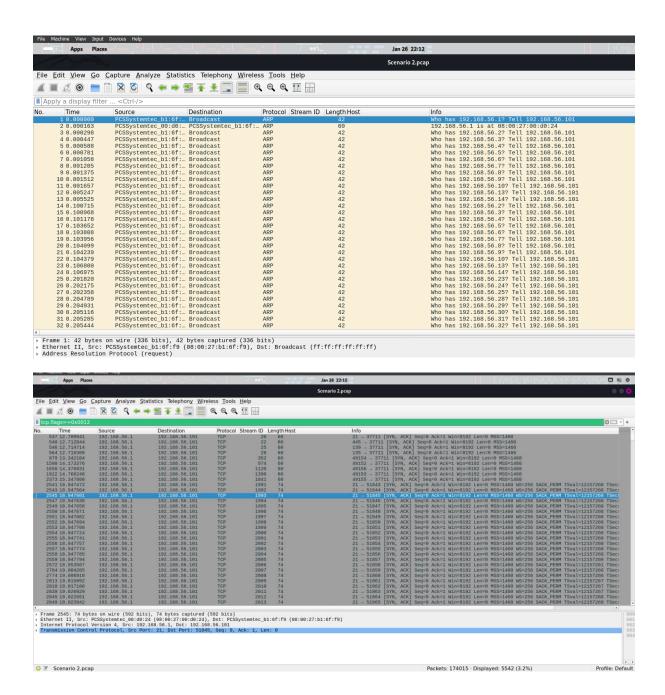
Investigate a potential Denial of Service (DoS) attack targeting an FTP server.

GOALS

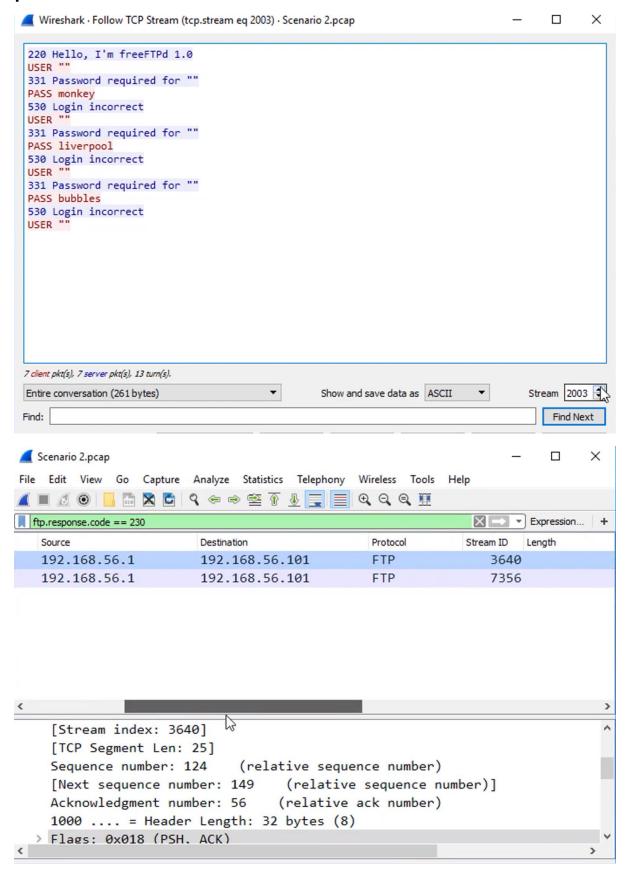
=== Goals ===

- What events led up to the attack on the FTP server?
- 2. What types of attacks did the attacker perform on the FTP server?
- What were the results of those attacks? (e.g. Did they login, what did they find, were files stolen, etc.?)

1. What events led to the attack on the FTP server?



2. What types of attacks did the attacker perform the FTP server?



Investigation Results

Attacker first initiated a ARP scan of the subnet 192.168.56.0/24

The following hosts were discovered: 192.168.56.1 and 192.168.56.100

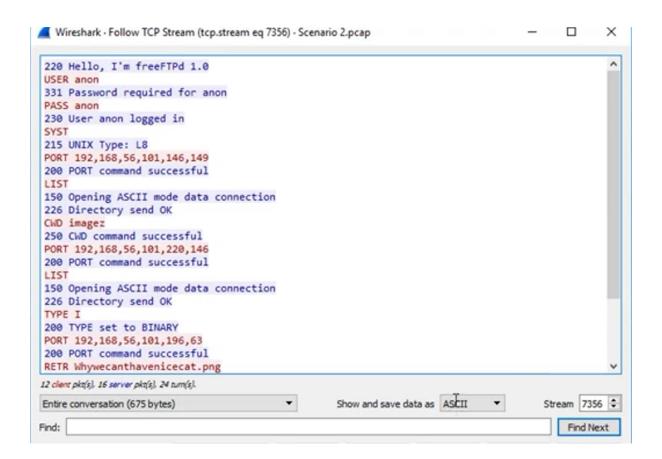
Attacker then began a port scan of host 192.168.56.1

The following ports were found open: 21, 445, 139, 135, 49152, 49153, 49154, 49155, 49156

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3. were the results of those attacks?
(e.g. Did they

login, did they find, files stolen, etc.



Investigation Results

Attacker followed up with an FTP brute force attack against FTP server

> The credentials anon/anon were compromised

Attacker successfully logged in as user anon with stolen credentials

- ➤ File "Whywecanthavenicecat.png" was downloaded
- MD5 sum of the file: 12039fd05bc2fcd3902247124edcea06

CAT.PNG FOUND



- 1. What events led up to the attack on the FTP server?
 - ARP scan; devices located:
 - * 192,168,56,1
 - * 192,168,56,100
 - * 192,168,56,101
 - SYN scan:
 - * 21
 - * 445
 - * 139
 - * 135
 - * 49154
 - * 49152
 - * 49156
 - * 49153
 - * 49155
- 2. What types of attacks did the attacker perform on the FTP server?
- What were the results of those attacks? (e.g. Did they login, what did they find, were files stolen, etc.?)
 - Attacker logged in with "Anon/anon"
- They listed the directories and downloaded
 Whywecanthavenicecat.png (176510 bytes)
 - MD5SUM: 12039fd05bc2fcd3902247124edcea06 *cat.png

Conclusion

Network forensics requires systematic, methodical investigation combining technical skills, analytical thinking, and comprehensive documentation.