Wireshark Scan #1

🕵️ Case Title: FTP-Cleartext Credentials Analysis

Date: July 17, 2025

Session Length: ~3 hours

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🧠 Objective

To analyze FTP traffic from a PCAP file and extract cleartext login credentials. Document findings, tools used, and implications for secure protocol usage.

📂 File Metadata

Attribute	Info
🗂️ File Name	`ftp_login.pcap`
📦 Source	***Download file:*** ***[https://www.cloudshark.org/captures/abdc8742488f]***
📅 Likely Date of Capture	Unknown (lab-generated)
🧪 Content	Cleartext FTP authentication over TCP
🔍 Size	~60–80 KB

Attribute	Info
🖥️ Protocols in Use	TCP, FTP (port 21)
🎯 Use Case	Beginner protocol analysis & credential extraction
🌐 Source IP	***192.168.1.182***
🌐 Destination IP	***192.168.1.231***

🛠️ Tools Used

- Wireshark GUI on Windows 11
- Filters: `ftp`, `ftp.request.command`, `tcp.stream eq 0`
- Follow TCP Stream feature
- Notion for documentation

🧪 Step-by-Step Analysis

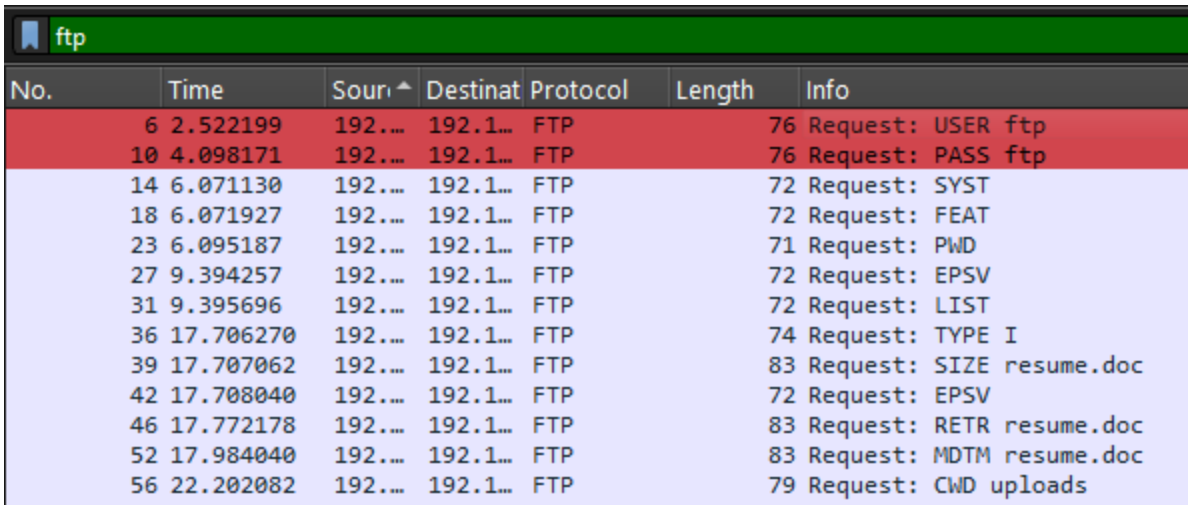
1. **Opened PCAP in Wireshark**
2. Applied display filter: `ftp`
3. Identified FTP login request (`USER`, `PASS`)
4. Right-clicked → Follow → TCP Stream
5. Saw credentials in cleartext:

```
USER ftp
PASS ftp
[Anonymous Login: " 230 Anonymous access granted, restrictions apply.
"]
```

6. Noted IPs, ports, direction of flow
7. Assessed risk (cleartext login can be intercepted)

🚨 Findings

- FTP credentials were sent in plain text



- No encryption (no TLS/SSL)
- Could very comfortably illustrate the sequence of command operated, could lead to serious security triage or exploit.
- Source IP ***192.168.1.182*** attempted login to destination ***192.168.1.231***

🧠 Takeaways

- Legacy protocols like FTP are dangerous
- Wireshark can extract creds in seconds, if outdated or unreliable protocols are still in use or if security patches are not timely updated.
- Proper filtering and stream reconstruction is key
