Trivial Flag Transfer Protocol

Forensics

Description:

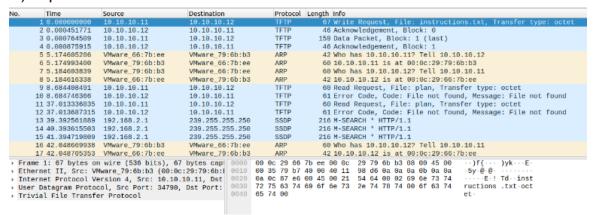
Figure out how they moved the flag.

Hints:

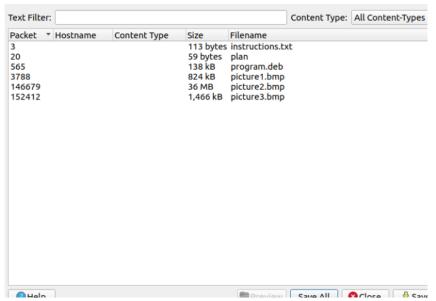
1) What are some other ways to hide data?

Solution:

1) Open the file in wireshark to find out what it contains.



2) Use a filter to find what was sent and received.



- 3) Use the cat command to find out what is contained in each file.
- 4) You will be given instructions to check out the photos and the password was DUEDILLIGENCE.
- 5) Use the command: steghide extract -sf <fiflename> -p <password> To obtain the flag.

```
shouvik028@shouvik028-Aspire-A715-75G:~/Downloads/trivial flag transfer protocol
$ steghide extract -sf ./picture2.bmp -p "DUEDILIGENCE"
steghide: could not extract any data with that passphrase!
shouvik028@shouvik028-Aspire-A715-75G:~/Downloads/trivial flag transfer protocol
$ steghide extract -sf ./picture3.bmp -p "DUEDILIGENCE"
steghide: could not extract any data with that passphrase!
shouvik028@shouvik028-Aspire-A715-75G:~/Downloads/trivial flag transfer protocol
$ steghide extract -sf ./picture1.bmp -p "DUEDILIGENCE"
steghide: could not extract any data with that passphrase!
shouvik028@shouvik028-Aspire-A715-75G:~/Downloads/trivial flag transfer protocol
$ steghide extract -sf ./picture1.bmp
Enter passphrase:
steghide: could not extract any data with that passphrase!
shouvik028@shouvik028-Aspire-A715-75G:~/Downloads/trivial flag transfer protocol
$ steghide extract -sf ./picture2.bmp
Enter passphrase:
steghide: could not extract any data with that passphrase!
shouvik028@shouvik028-Aspire-A715-75G:~/Downloads/trivial flag transfer protocol
$ steghide extract -sf ./picture3.bmp
Enter passphrase:
wrote extracted data to "flag.txt".
shouvik028@shouvik028-Aspire-A715-75G:~/Downloads/trivial flag transfer protocol
$ cat flag.txt
picoCTF{h1dd3n_1n_pLa1n_51GHT_18375919}
shouvik028@shouvik028-Aspire-A715-75G:~/Downloads/trivial flag transfer protocol
```

Flag: picoCTF{h1dd3n_1n_pLa1n_51GHT_18375919}