Final Project Comp 8505 Testing

Aadi Bisht December 5, 2023

Table of Contents

| Features | 4 |
|--|----|
| Testing Table | 5 |
| Test Results | 12 |
| Test 1 and Test 4 (Initiation Test Cases) | 12 |
| Test 2 and Test 3 (Initiation Test Cases) | 12 |
| Test 6: Port Knocking Test Cases | 12 |
| Test 7 and Test 8 (Encrypted and Covert Communication) | 13 |
| Test 9 | 13 |
| Test 10 | 14 |
| Test 11 | 14 |
| Test 12, Test 13, Test 14, Test 15, Test 16 | 15 |
| Test 17 | 15 |
| Test 18 | 16 |
| Test 19 | 16 |
| Test 20 | 17 |
| Test 21 | 17 |
| Test 22 | 17 |
| Test 23 | 18 |
| Test 24 | 18 |
| Test 25 | 19 |
| Test 26 and Test 27 | 19 |
| Test 28 | 20 |
| Test 29 | 20 |
| Test 30 | 20 |
| Test 31 | 21 |
| Test 32 | 22 |
| Test 33 | 22 |
| Test 34 | 23 |
| Test 35 | 23 |
| Test 36 | 24 |
| Test 37 | 24 |
| Test 39 | 24 |

3 | Page

| Test 40 | 25 |
|---------|----|
| | |
| Test 42 | 25 |
| | |
| Test 43 | 26 |

Features

This assignment is to create a rootkit that has the functionality of a starting and stopping the keylogger, transferring the keylog file generated by the keylogger, watching a file and directory, stopping the file and directory watching, transferring files to and from the victim, running a program on the victim's machine and uninstalling the files and disconnecting the commander from the victim.

All the communication between the victim and commander uses encryption and a covert channel. We used the ID field of the IP Header as the covert placeholder.

Testing Table

IP for victim.py: 192.168.0.21

IP for commander.py: 192.168.0.22

Command Legend:

- 1- Start Keylogger
- 2- Stop Keylogger
- 3- Transfer Keylog file
- 4- Transfer file to
- 5- Transfer file from
- 6- Run program
- 7- Watch file
- 8- Watch directory
- 9- Disconnect
- 10-Uninstall

```
| Project bash | Proj
```

Initiation Test Case

| # | Command | Description | Pass/Fail |
|---|--------------------------|--|-----------|
| 1 | python victim.py | victim.py should open the default port 66 and listen for incoming port knocks and future communication | Pass |
| 2 | python victim.py -p 2000 | Victim.py will listen on port 2000 for incoming port knocks and | Pass |

| | | future communication | |
|---|---|--|------|
| 3 | Python commander.py -ip 192.168.0.21 -dport 2000 | Commander.py will send port knocks to ip 192.168.0.21 on the victim (dest) port 2000 | Pass |
| 4 | python commander.py -ip 192.168.0.21 | Commander should connect to the default destination port 66 of the victim | Pass |
| 5 | python commander.py -ip 192.168.0.21 -sport 3000 | Commander should connect to the default destination port 66 of the victim, but the source port from which the victim will receive this will be port 3000 | Pass |

Port Knocking

| # | Description | Pass/Fail |
|---|---|-----------|
| 6 | Victim waits for a legitimate port knock sequence which is a TCP Syn packet on ports (100, 200, 300) in the exact order and it should be less than 5 secs apart | Pass |

Encrypted and Covert Communication

| # | Description | Pass/Fail |
|---|---|-----------|
| 7 | Communication between victim and commander are done through covert channel. The payload is a single character hidden in the ID field of the IPv4 Header | Pass |
| 8 | The payload containing the data is encrypted with a random key through XOR encryption technique | Pass |

Obfuscation Test Cases

| # | Description | Pass/Fail |
|---|---|-----------|
| 9 | The victim changes its name from victim.py. It picks up a random process name from already running process on the system. | Pass |

Keylogger Test Cases (Command 1 and 2)

| # | Description | Pass/Fail |
|----|--|-----------|
| 10 | Command "1": Starts the keylogger on the victim computer | Pass |
| 11 | Starting the keylogger creates a keylog.txt file if it does not exist | Pass |
| 12 | All the keys pressed should be logged in keylog.txt file | Pass |
| 13 | Caps lock on will capture all the characters in capital letters | Pass |
| 14 | Typing with shift pressed and caps lock on will capture characters in small case | Pass |
| 15 | Typing with shift pressed and caps lock not on will capture characters in Capital case | Pass |
| 16 | Pressing any special characters will print those exact characters. For example, pressing Alt will log as [ALT] | Pass |

| 17 | Command "2": Stops the keylogger if the keylogger instance is currently running | Pass |
|----|--|------|
| 18 | Command "2": if they keylogger instance is not running and this command is sent. The victim will print the error | Pass |

Transfer Keylog Test Cases (command 3)

| # | Description | Pass/Fail |
|----|--|-----------|
| 19 | Command "3": Transfers the keylog.txt file if it exists and if keylogger instance is not running | Pass |
| 20 | Command "3": If the keylogger is running it will not transfer the file | Pass |
| 21 | Command "3": if keylog.txt does not exist then it will not transfer the file | Pass |

Transfer file from and to Commander Test Cases (command 4 and 5):

| # | Description | Pass/Fail |
|----|---|-----------|
| 22 | Command "4": Transfers file to the victim if it exists | Pass |
| 23 | Command "4": If the file does not exist on commander the transfer does not happen | Pass |

| 24 | Command "5": Transfer file from victim if it exists | Pass |
|----|--|------|
| 25 | Command "5": If the file does not exist on victim the transfer does not happen | Pass |

Run Program Test Cases (Command 6)

| # | Description | Pass/Fail |
|----|---|-----------|
| 26 | Command "5": Run program on the victim and if run successfully it should display the results on the commander | Pass |
| 27 | Command "5": If the command sent is incorrect, then error message is sent back from the victim, print the error message | Pass |

Run Watching on File Test Cases (Command 7)

| # | Description | Pass/Fail |
|----|---|-----------|
| 28 | Command "7": Commander will send the filename of the file to watch for changes | Pass |
| 29 | Command "7": The victim sends the file content to the commander as the changes take place in the file | Pass |
| 30 | Command "7": When file is added or modified it is stored in the ip-based directory | Pass |

| 31 | Command "7": Attempting to watch a file that does not exist will not start the watcher process | Pass |
|----|--|------|
| 32 | Command "9": Stops the watcher process if it is running | Pass |
| 33 | Command "9": If watcher process is not running, it will generate an error | Pass |
| 34 | Command "9": If watcher process is watching a directory currently it will generate an error | Pass |

Run Watching on Directory Test Cases (Command 7)

| # | Description | Pass/Fail |
|----|---|-----------|
| 35 | Command "8": Commander will send the directory name of the directory to watch for changes | Pass |
| 36 | Command "8": When multiple directories are deleted, they are sent to the deleted folder. | Pass |
| 37 | Command "8": When multiple files are deleted, they are sent to the deleted folder. | Pass |
| 38 | Command "8": Attempting to watch a directory that does not exist will not start a watcher process | Pass |
| 39 | Command "10": Stops the watching directory if watching instance is running | Pass |

| 40 | Command "10": If watcher process is not running it will generate an error | Pass |
|----|---|------|
| 41 | Command "10": If watcher process is watching a file currently it will generate an error | Pass |

Disconnect Test Cases (Command 11)

| # | Description | Pass/Fail |
|----|--|-----------|
| 42 | Command "11": Disconnects the commander from the victim and victim wait for another port knock commander | Pass |

Uninstall Test Cases (Command 7)

| # | Description | Pass/Fail |
|----|--|-----------|
| 43 | Command "12": Removes all the script files from the victim's machine | Pass |

Test Results

Test 1 and Test 4 (Initiation Test Cases)

Test 2 and Test 3 (Initiation Test Cases)

Test 6: Port Knocking Test Cases

Sending TCP SYN to port (100, 200, 300)

| 37 10.141408237 | 192.168.0.22 | 192.168.0.21 | TCP | 56 1200 → 100 [SYN] Seq=0 Win=8192 Len=0 |
|-----------------|--------------|--------------|-----|--|
| 38 10.142007044 | 192.168.0.21 | 192.168.0.22 | TCP | 62 100 → 1200 [RST, ACK] Seg=1 Ack=1 Win=0 Len=0 |
| 39 10.207956752 | 192.168.0.22 | 192.168.0.21 | TCP | 56 [TCP Port numbers reused] 1200 → 100 [SYN] Seq=0 Win=8192 Len=0 |
| 40 10.208409698 | 192.168.0.21 | 192.168.0.22 | TCP | 62 100 → 1200 [RST, ACK] Seg=1 Ack=1 Win=0 Len=0 |
| 41 10.280645808 | 192.168.0.22 | 192.168.0.21 | TCP | 56 [TCP Port numbers reused] 1200 → 100 [SYN] Seq=0 Win=8192 Len=0 |
| 42 10.281249582 | 192.168.0.21 | 192.168.0.22 | TCP | 62 100 → 1200 [RST, ACK] Seq=1 Ack=1 Win=0 Len=0 |
| 43 10.353651443 | 192.168.0.22 | 192.168.0.21 | TCP | 56 [TCP Port numbers reused] 1200 → 100 [SYN] Seg=0 Win=8192 Len=0 |
| 44 10.354190753 | 192.168.0.21 | 192.168.0.22 | TCP | 62 100 → 1200 [RST, ACK] Seg=1 Ack=1 Win=0 Len=0 |
| 45 10.426558565 | 192.168.0.22 | 192.168.0.21 | TCP | 56 [TCP Port numbers reused] 1200 → 100 [SYN] Seq=0 Win=8192 Len=0 |
| 46 10.427069768 | 192.168.0.21 | 192.168.0.22 | TCP | 62 100 → 1200 [RST, ACK] Seg=1 Ack=1 Win=0 Len=0 |
| 47 10.497367352 | 192.168.0.22 | 192.168.0.21 | TCP | 56 1200 → 200 [SYN] Seq=0 Win=8192 Len=0 |
| 48 10.497911834 | 192.168.0.21 | 192.168.0.22 | TCP | 62 200 → 1200 [RST, ACK] Seq=1 Ack=1 Win=0 Len=0 |
| 49 10.572321756 | 192.168.0.22 | 192.168.0.21 | TCP | 56 [TCP Port numbers reused] 1200 → 200 [SYN] Seq=0 Win=8192 Len=0 |
| 50 10.572849795 | 192.168.0.21 | 192.168.0.22 | TCP | 62 200 → 1200 [RST, ACK] Seg=1 Ack=1 Win=0 Len=0 |
| 51 10.641300882 | 192.168.0.22 | 192.168.0.21 | TCP | 56 [TCP Port numbers reused] 1200 → 200 [SYN] Seq=0 Win=8192 Len=0 |
| 52 10.641680498 | 192.168.0.21 | 192.168.0.22 | TCP | 62 200 → 1200 [RST, ACK] Seq=1 Ack=1 Win=0 Len=0 |
| 53 10.710237608 | 192.168.0.22 | 192.168.0.21 | TCP | 56 [TCP Port numbers reused] 1200 → 200 [SYN] Seq=0 Win=8192 Len=0 |
| 54 10.710753299 | 192.168.0.21 | 192.168.0.22 | TCP | 62 200 → 1200 [RST, ACK] Seq=1 Ack=1 Win=0 Len=0 |
| 55 10.786276002 | 192.168.0.22 | 192.168.0.21 | TCP | 56 [TCP Port numbers reused] 1200 → 200 [SYN] Seq=0 Win=8192 Len=0 |
| 56 10.786805302 | 192.168.0.21 | 192.168.0.22 | TCP | 62 200 → 1200 [RST, ACK] Seq=1 Ack=1 Win=0 Len=0 |
| 57 10.859524838 | 192.168.0.22 | 192.168.0.21 | TCP | 56 1200 → 300 [SYN] Seq=0 Win=8192 Len=0 |
| 58 10.860040887 | 192.168.0.21 | 192.168.0.22 | TCP | 62 300 → 1200 [RST, ACK] Seq=1 Ack=1 Win=0 Len=0 |
| 59 10.944378182 | 192.168.0.22 | 192.168.0.21 | TCP | 56 [TCP Port numbers reused] 1200 → 300 [SYN] Seq=0 Win=8192 Len=0 |
| 60 10.944774886 | 192.168.0.21 | 192.168.0.22 | TCP | 62 300 → 1200 [RST, ACK] Seq=1 Ack=1 Win=0 Len=0 |
| 61 11.017236145 | 192.168.0.22 | 192.168.0.21 | TCP | 56 [TCP Port numbers reused] 1200 → 300 [SYN] Seq=0 Win=8192 Len=0 |
| 62 11.017968062 | 192.168.0.21 | 192.168.0.22 | TCP | 62 300 → 1200 [RST, ACK] Seq=1 Ack=1 Win=0 Len=0 |
| 63 11.095471704 | 192.168.0.22 | 192.168.0.21 | TCP | 56 [TCP Port numbers reused] 1200 → 300 [SYN] Seq=0 Win=8192 Len=0 |
| 64 11.096169283 | 192.168.0.21 | 192.168.0.22 | TCP | 62 300 → 1200 [RST, ACK] Seq=1 Ack=1 Win=0 Len=0 |
| | 192.168.0.22 | 192.168.0.21 | TCP | 56 [TCP Port numbers reused] 1200 → 300 [SYN] Seq=0 Win=8192 Len=0 |
| 66 11.169534239 | 192.168.0.21 | 192.168.0.22 | TCP | 62 300 → 1200 [RST, ACK] Seq=1 Ack=1 Win=0 Len=0 |

The below is how it looks in the devices:

```
project: python

17:18:02(-)root@localhost:project$ python commander.py -ip 192.168.0.21 -dport 2000

Encryption Key: Rf

Press ENTER to continue

17:18:02(-)root@localhost:project$ python commander.py -ip 192.168.0.21 -dport 2000

---[STANDING BY FOR PORT KNOCK]---
Port Knock Success: ('192.168.0.22', 1200)

Enter Encryption Key: []
```

Test 7 and Test 8 (Encrypted and Covert Communication)

Identification Field in the TCP Packet contains the encrypted character. The payload is 122 which refers to the 'z' in the ascii table. But that was not the original payload

```
Frame 26: 56 bytes on wire (448 bits), 56 bytes captured (448 bits) on interface any, id 0
Linux cooked capture v1
Internet Protocol Version 4, Src: 192.168.0.22, Dst: 192.168.0.21
0100 .... = Version: 4
.... 0101 = Header Length: 20 bytes (5)
Differentiated Services Field: 0x00 (DSCP: CS0, ECN: Not-ECT)
Total Length: 40
Identification: 0x007a (122)

> 000. ... = Flags: 0x0
...0 0000 0000 0000 = Fragment Offset: 0
Time to Live: 64
Protocol: TCP (6)
Header Checksum: 0xf8da [validation disabled]
[Header checksum status: Unverified]
Source Address: 192.168.0.22
Destination Address: 192.168.0.21

Transmission Control Protocol, Src Port: 1200, Dst Port: 2000, Seq: 0, Len: 0
```

```
17:29:16(-)root@localhost:Desktop$ ps aux | grep process
root 14441 0.0 0.0 222412 2080 pts/2 T 17:26 0:00 grep --color=auto process
root 15786 0.0 0.0 222412 2080 pts/2 T 17:27 0:00 grep --color=auto process
root 16112 4.1 0.4 372356 74072 pts/1 5l+ 17:28 0:02 kworker/3:0process7245
root 17126 0.0 0.0 222412 2240 pts/2 S+ 17:29 0:00 grep --color=auto process
```

```
17:28:08(-)root@localhost:Desktop$ python victim.py
Name obuscated to kworker/3:0process7245
---[STANDING BY FOR PORT KNOCK]---
```

| root | 1341 | 0.0 | 0.0 | 0 | 0 | ? | I | 15:18 | 0:00 | [kworker/19:2-mm_percpu_wq] |
|------|-------|-----|-----|--------|-------|------|-------|-------|------|--------------------------------|
| root | 8132 | 0.0 | 0.0 | 0 | 0 | ? | I | 16:29 | 0:00 | [kworker/1:0-events] |
| root | 105 | 0.0 | 0.0 | 0 | 0 | ? | I< | 15:18 | 0:00 | [kworker/1:0H-events_highpri] |
| root | 339 | 0.0 | 0.0 | 0 | 0 | ? | I< | 15:18 | 0:00 | [kworker/1:1H-events_highpri] |
| root | 10799 | 0.0 | 0.0 | 0 | 0 | ? | I | 17:14 | 0:00 | [kworker/1:2-events] |
| root | 27 | 0.0 | 0.0 | 0 | 0 | ? | I< | 15:18 | 0:00 | [kworker/2:0H-events_highpri] |
| root | 10802 | 0.0 | 0.0 | 0 | 0 | ? | I | 17:14 | 0:00 | [kworker/2:1-rcu_gp] |
| root | 752 | 0.0 | 0.0 | 0 | 0 | ? | I< | 15:18 | 0:00 | [kworker/2:1H-kblockd] |
| root | 8534 | 0.0 | 0.0 | 0 | 0 | ? | I | 16:47 | 0:00 | [kworker/2:2-events] |
| root | 10798 | 0.0 | 0.0 | 0 | 0 | ? | I | 17:14 | 0:00 | [kworker/3:0] |
| root | 111 | 0.0 | 0.0 | 0 | 0 | ? | I< | 15:18 | 0:00 | [kworker/3:0H-events_highpri] |
| root | 16112 | 4.1 | 0.4 | 372356 | 74232 | pts/ | 1 Sl+ | 17:28 | 0:02 | kworker/3:0process7245 |
| root | 840 | 0.0 | 0.0 | 0 | 0 | ? | I< | 15:18 | 0:00 | [kworker/3:1H-kblockd] |
| root | 931 | 0.0 | 0.0 | 0 | 0 | ? | I | 15:18 | 0:00 | [kworker/3:2-events] |
| root | 1847 | 0.0 | 0.0 | 0 | 0 | ? | I | 15:25 | 0:00 | [kworker/4:0-rcu_par_gp] |
| root | 33 | 0.0 | 0.0 | 0 | 0 | ? | I< | 15:18 | 0:00 | [kworker/4:0H-events_highpri] |
| root | 341 | 0.0 | 0.0 | 0 | 0 | ? | I< | 15:18 | 0:00 | [kworker/4:1H-kblockd] |
| root | 8528 | 0.0 | 0.0 | 0 | 0 | ? | I | 16:47 | 0:00 | [kworker/4:2-events] |
| root | 2359 | 0.0 | 0.0 | 0 | 0 | ? | I | 15:25 | 0:00 | [kworker/5:0-events freezable] |

Keylogger Test Cases (Command 1 and Command 2)

Test 10

```
project:python

project:python
```

Test 11

As we can see on the victim console in the screenshot below, we can see that they created the keylog.txt file

```
| Prilit | P
```

Test 12, Test 13, Test 14, Test 15, Test 16

We can see the content of the keylog.txt file on the victim side.

```
17:26:51(-)root@localhost:project$ ls
commander.py covertTCP.py downloads keylogger.py keylog.txt __pycache__ test.py victim.py watcher.py
17:26:55(-)root@localhost:project$ cat keylog.txt
hello world !@#123? HELLO EORLD [CTRL]ALTUPDOWNLEFTRIGHTDOWNUP17:27:02(-)root@localhost:project$
```

Test 17

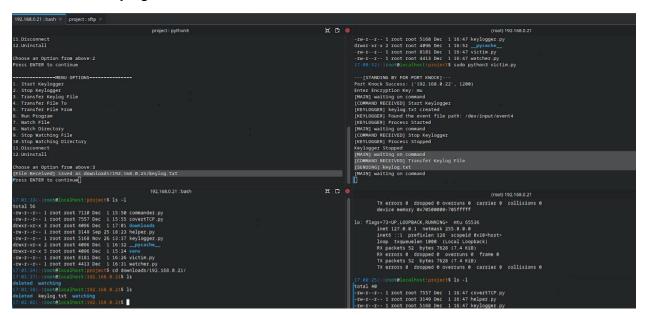
In the below screen shot we can see that command 2 will stop the keylogger

If the keylogger is not running and commander sends a stop command will result in below

Transfer Keylog Test cases (Command 3)

Test 19

Transfer the keylog.txt to the commander



When keylogger is running, you can not transfer the keylog file

```
project:python RE 5 0 (192168.021
17:31:85(-):noor@localhest:project$ python commander.py -ip 192.168.8.21 -dport 2008
Encryption key: ho
Press SHTER to continue

1. Start Keylogger
1. Start Keylogger
2. Stop keylogger
3. Transfer Keylog File
4. Transfer Keylog File
5. Natch File
6. Natch Directory
9. Stop Natching File
10. Stop Watching Directory
11. Disconnect
12. Uninstall
Choose an Option from above:1
Fress SHTER to continue

1. Start Keylogger
2. Stop Keylogger
3. Stop Keylogger
4. Transfer File Fon
5. Start Keylogger
7. Natch File
8. Natch Directory
9. Stop Natching Directory
11. Disconnect
12. Uninstall
Choose an Option from above:1
Fress File Fine
6. Unin Frogram
7. Natch File
8. Natch Directory
9. Stop Natching File
9. Transfer File Fine
6. Unin Frogram
7. Natch File
8. Natch Directory
9. Stop Natching File
10. Transfer File Fine
6. Unin Frogram
7. Natch File
8. Natch Directory
9. Stop Natching File
10. Transfer File Fine
6. Unin Frogram
7. Natch File
8. Natch Directory
9. Stop Natching File
10. Stop Natching Directory
11. Disconnect
11. Disconnect
12. Uninstall
13. Choose an Option from above:3
14. Option Fine Nation Stop Natching File
15. Stop Natching Directory
11. Disconnect
12. Uninstall
14. Choose an Option from above:3
16. Option Fine Nation Stop Natching File
16. Option Fine Nation Stop Natching File
17. Transfer File Fine
18. Natch Directory
19. Stop Natching Directory
11. Disconnect
19. Choose on Option from above:3
10. Option Fine Nation Stop Natching File
18. Option Fine Nation Stop Natching File
18. Option File Nation Stop Natching File
18. Natch Directory
19. Option File Nation Stop Natching File
19. Option File Nation Stop Nation Stop Nation Nation Stop Nation Nation Stop Nation Nation Nation Nation Nation Nation Nation Nation Nation Natio
```

Test 21

When keylog.txt does not exist and you try to transfer the keylog file.

```
project:python

17:30:25(-)root@localhost:project$ python commander.py -ip 192.168.0.21 -dport 2000

Encryption Key: eh
Press ENTER to continue

1. Start Keylogger
2. Stop Keylogger
3. Transfer File To
5. Transfer File From
6. Run Program
7. Watch File
8. Watch Directory
9. Stop Watching Directory
11. Disconnect
12. Otherstall
Choose an Option from above:3
[FILE ERROR] keylog, txt does not exist.
Press ENTER to continue

0 192.168.0.21 -dport 2000

17:30:27(-)root@localhost:project$ python victim.py -p 2000

---[STANDING BY FOR FORT KNOCK]---
Port Knock Success: ('192.168.0.22', 1200)

Enter Encryption Key: eh
[MAIN] waiting on command
[COMMAND RECEIVED] Transfer Keylog File
1[TRANSFER STOPPED] keylog.txt does not exist
[MAIN] waiting on command

[MAIN] waiting on command

[COMMAND access on the command of the command o
```

Transfer File From and Transfer File To (Command 4 and Command 5)

Test 22

File transfer to commander

Test 23 when the file does not exist on the victim's side

```
project:python

| Cook | Cook
```

Transferring a file to victim from the commander's side

```
| Comparison | Com
```

When file does not exist on the commander's side

Test 26 and Test 27

Running a program on commander's side

```
project:python3 × project:sfp ×

A. Transfer File To
5. Transfer File Form
6. But Project
8. Batch Directory
10. Stop batching File
11. Stop batching File
12. Stop batching File
13. Stop batching File
14. Transfer File Form
6. But Project
8. Batch Directory
15. Stop batching File
16. Stop batching File
17. Stop batching File
18. Stop batching
```

Running a File Watcher (Command 7)

```
Proof 192.168.0.21 × project: stp ×
```

Test 29

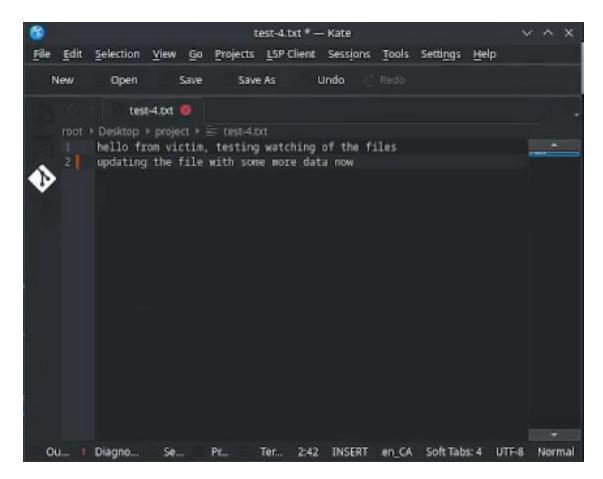


```
total 16

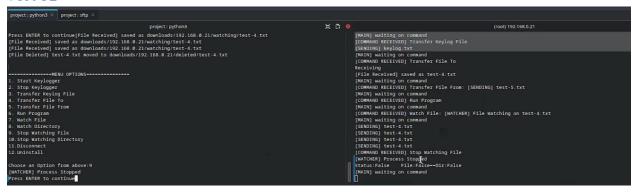
drwxr-xr-x 2 root root 4096 Dec 1 17:01 deleted
-rw-r--r-- 1 root root 49 Dec 1 17:01 keylog.txt
-rw-r--r-- 1 root root 53 Dec 1 17:04 test-5.txt
drwxr-xr-x 2 root root 4096 Dec 1 17:01 watching
17:04:26(-)rootelocalhost:192.168:0.21$ vim test-5.txt
17:04:37(-)rootelocalhost:192.168:0.21$ Is
deleted keylog.txt test-5.txt watching
17:06:16(-)rootelocalhost:192.168:0.21$ cd watching/
17:06:17(-)rootelocalhost:watching$ 1s
test-4.txt
17:06:23(-)rootelocalhost:watching$ vim test-4.txt
17:06:23(-)rootelocalhost:watching$ 1s -1
total 4
-rw-r--r-- 1 root root 49 Dec 1 17:06 test-4.txt
17:06:45(-)rootelocalhost:watching$ 1s
test-4.txt
17:06:55(-)rootelocalhost:watching$ 1s
```

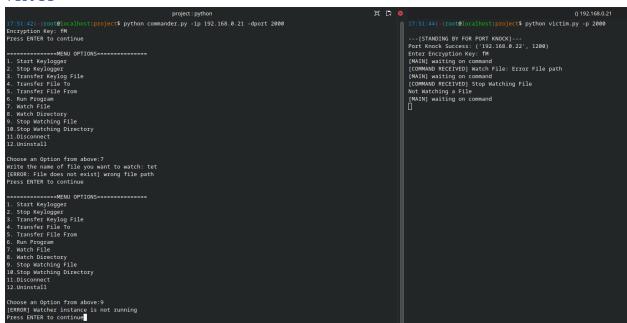
Test 30

Updating the file that was being watched



Test 31
Attempting to watch a file that does not exist





Watching Directory Test Cases

```
| Project: python | The continue | Project: python | The continue | Project: python | Project: python
```

```
(moc) 92.188.021

[MAIN] waiting on command
[COMMAND RECEIVED] Transfer File From: [SEMDING] text-5.txt
[MAIN] waiting on command
[COMMAND RECEIVED] Num Program
[MAIN] waiting on command
[COMMAND RECEIVED] was the file: [MATCHER] File Matching on text-4.txt
[MAIN] waiting on command
[COMMAND RECEIVED] stop various program
[COMMAND RECEIVED] Status-False File:False—Dir:False
[MAIN] Waiting on command
[COMMAND RECEIVED] status-False File:False—Dir:False
[SEMDING] directory warching on dir
[SEMDING] directory warching on dir
[SEMDING] directory directing on directory directory directing on directory d
                        Start Keylogger
Stop Keylogger
Stop Keylogger
Transfer Keylog File
Transfer File To
Transfer File From
noose an Option from above:8
lite the path of directory you want to watch: dir
MATCH STANTED on dir
GENERAL STANTED ON STANTAND ON STANTAN
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             from 192.16002.

1 test.tst

1 test.tst

1 dear.tst

2 root root 4000 Dec 117/00 1

2 rene--st-1 root root 27 Dec 117/00 1

2 rene--st-2 root root 27 Dec 117/00 test.tst

17.88.320-root@collowstroids dolphin

18.10 has a root.clubray key. This works for now, but makes user-preference handling difficult, so support for this

10 has a root.clubray key. This works for now, but makes user-preference handling difficult, so support for this

10 has a root.clubray key. This works for now, but makes user-preference handling difficult, so support for this

10 has a root.clubray key. This works for now, but makes user-preference handling difficult, so support for this

10 has a root.clubray key. This works for now, but makes user-preference handling difficult, so support for this

10 has a root.clubray key. This works for now, but makes user-preference handling difficult, so support for this

10 has a root.clubray key. This works for now, but makes user-preference handling difficult, so support for this

10 has a root.clubray key. This works for now, but makes user-preference handling difficult, so support for this

10 has a root.clubray key. This works for now, but makes user-preference handling difficult, so support for this

10 has a root.clubray key. This works for now, but makes user-preference handling difficult, so support for this

10 has a root.clubray key. This works for now, but makes user-preference handling difficult, so support for this

10 has a root.clubray key. This works for now, but makes user-preference handling difficult, so support for this

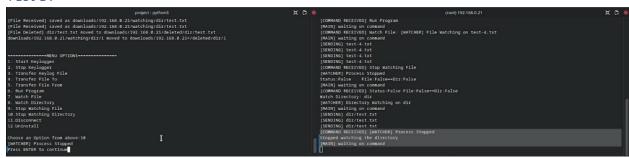
10 has a root.clubray key. This works for now, but makes user-preference handling difficult, so support for this

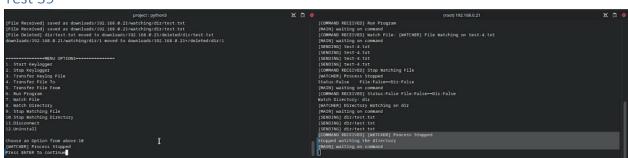
10 has a root.clubray key. This works for now, but makes user-preference handling difficult, so support for this

10 has a root.clubray key. This works for now but makes user-preference handling difficult, so support for this

10 has a root.clubray key. This works for now but mak
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                HD .
      tal 8
wxr-xr-x 2 root root 4096 Dec 1 17:08 1
w-r--r-- 1 root root 27 Dec 1 17:08 test.txt
108:28(-)root@localhost:dir$ 1s
```

Test 37





```
S. Transfer File From

S. Transfer File From

S. Transfer File From

S. March Sile

S. March Directory

S. Stop Natching File

18. Stap Natching File
```

