

## CSEC Week 06 Lab

### Task 4 - TCP RST Attacks on Telnet and SSH Connections

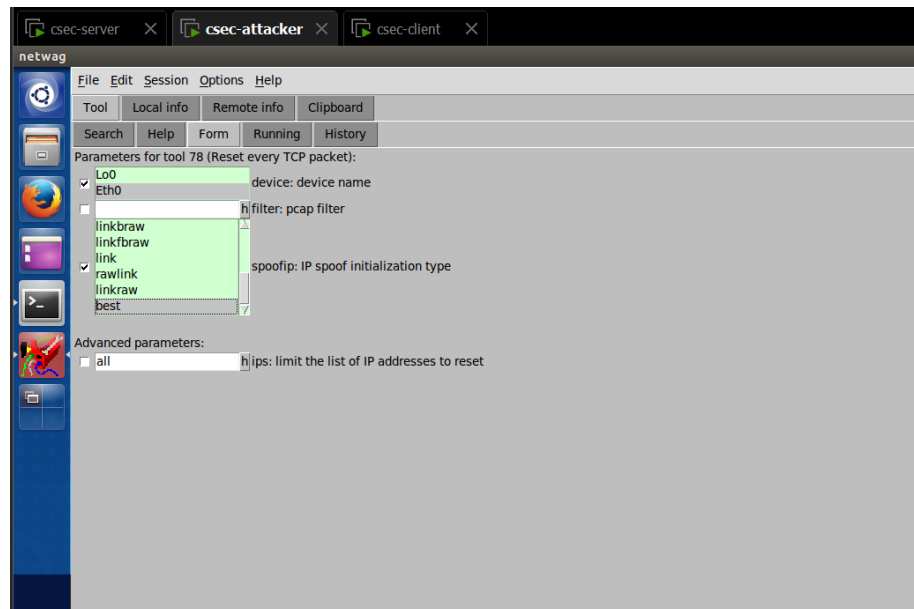
```
cybersec-client@ubuntu:~$ telnet 10.0.2.6
Trying 10.0.2.6...
Connected to 10.0.2.6.
Escape character is '^]'.
Ubuntu 14.04.5 LTS
ubuntu login: cybersec
Password:

Login incorrect
ubuntu login: cybersec-server
Password:
Last login: Mon Oct 17 22:04:33 PDT 2016 from 10.0.2.8 on pts/6
Welcome to Ubuntu 14.04.5 LTS (GNU/Linux 4.2.0-42-generic x86_64)

 * Documentation:  https://help.ubuntu.com/

508 packages can be updated.
416 updates are security updates.

cybersec-server@ubuntu:~$
```



```

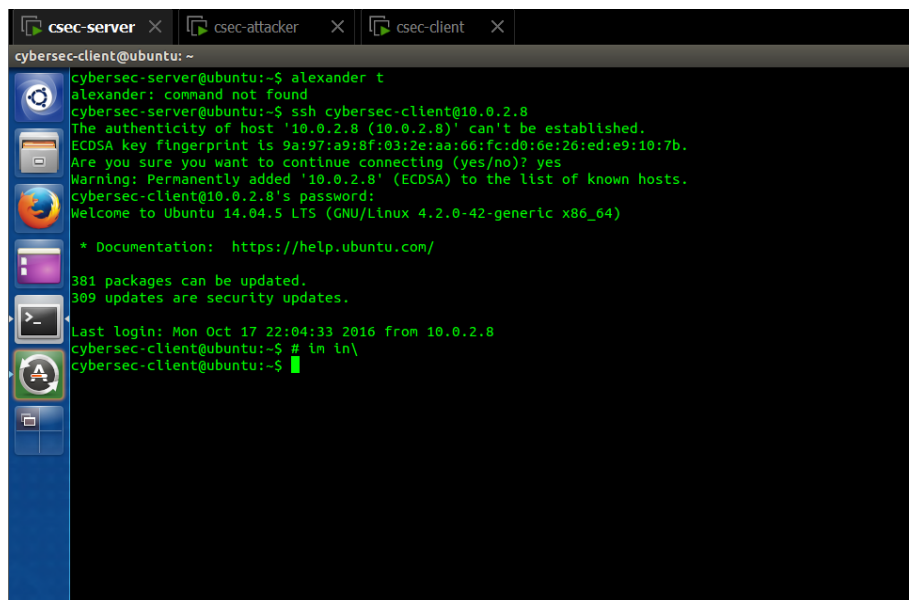
ubuntu login: cybersec-server
Password:
Last login: Mon Oct 17 22:04:33 PDT 2016 from 10.0.2.8 on pts/6
Welcome to Ubuntu 14.04.5 LTS (GNU/Linux 4.2.0-42-generic x86_64)

 * Documentation:  https://help.ubuntu.com/

508 packages can be updated.
416 updates are security updates.

cybersec-server@ubuntu:~$ s
Connection closed by foreign host.
cybersec-client@ubuntu:~$ :( alexander thoren

```



The screenshot shows a terminal window with three tabs: 'csec-server', 'csec-attacker', and 'csec-client'. The active tab is 'csec-client'. The terminal output shows the user 'alexander t' attempting to run a command, then using 'ssh' to connect to 'cybersec-client@10.0.2.8'. The connection is successful, and the user is prompted for a password. The terminal output includes system updates and login information.

```

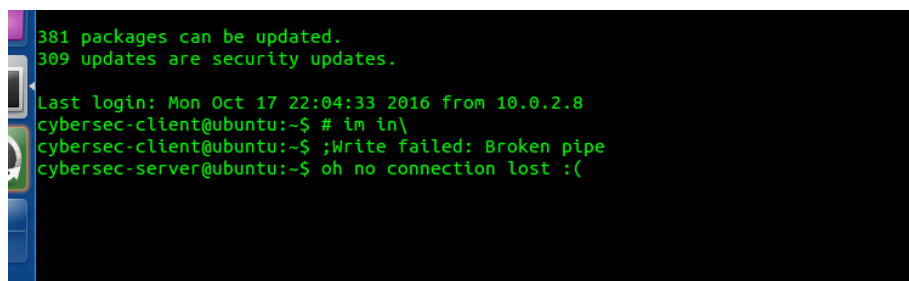
cybersec-client@ubuntu:~$ alexander t
alexander: command not found
cybersec-server@ubuntu:~$ ssh cybersec-client@10.0.2.8
The authenticity of host '10.0.2.8 (10.0.2.8)' can't be established.
ECDSA key fingerprint is 9a:97:a9:8f:03:2e:aa:66:fc:d0:6e:26:ed:e9:10:7b.
Are you sure you want to continue connecting (yes/no)? yes
Warning: Permanently added '10.0.2.8' (ECDSA) to the list of known hosts.
cybersec-client@10.0.2.8's password:
Welcome to Ubuntu 14.04.5 LTS (GNU/Linux 4.2.0-42-generic x86_64)

 * Documentation:  https://help.ubuntu.com/

381 packages can be updated.
309 updates are security updates.

Last login: Mon Oct 17 22:04:33 2016 from 10.0.2.8
cybersec-client@ubuntu:~$ # in in\
cybersec-client@ubuntu:~$

```



The screenshot shows the continuation of the terminal session. The user 'alexander t' is still on the 'csec-client' tab. The terminal output shows the user attempting to run a command, then using 'ssh' to connect to 'cybersec-client@10.0.2.8'. The connection is successful, and the user is prompted for a password. The terminal output includes system updates and login information.

```

381 packages can be updated.
309 updates are security updates.

Last login: Mon Oct 17 22:04:33 2016 from 10.0.2.8
cybersec-client@ubuntu:~$ # im in\
cybersec-client@ubuntu:~$ ;Write failed: Broken pipe
cybersec-server@ubuntu:~$ oh no connection lost :(

```

## Task 5 - ICMP Blind Connection-Reset and Source-Quench Attacks

### (i) ICMP Blind Connection-Reset

The image displays a Wireshark packet capture of an ICMP blind connection reset attack. The capture shows a series of ICMP Echo (ping) requests and replies between 10.0.2.6 and 10.0.2.8. A terminal window in the foreground shows the command 'ping 10.0.2.6' being executed, with output showing 0% packet loss and a time of 499ms.

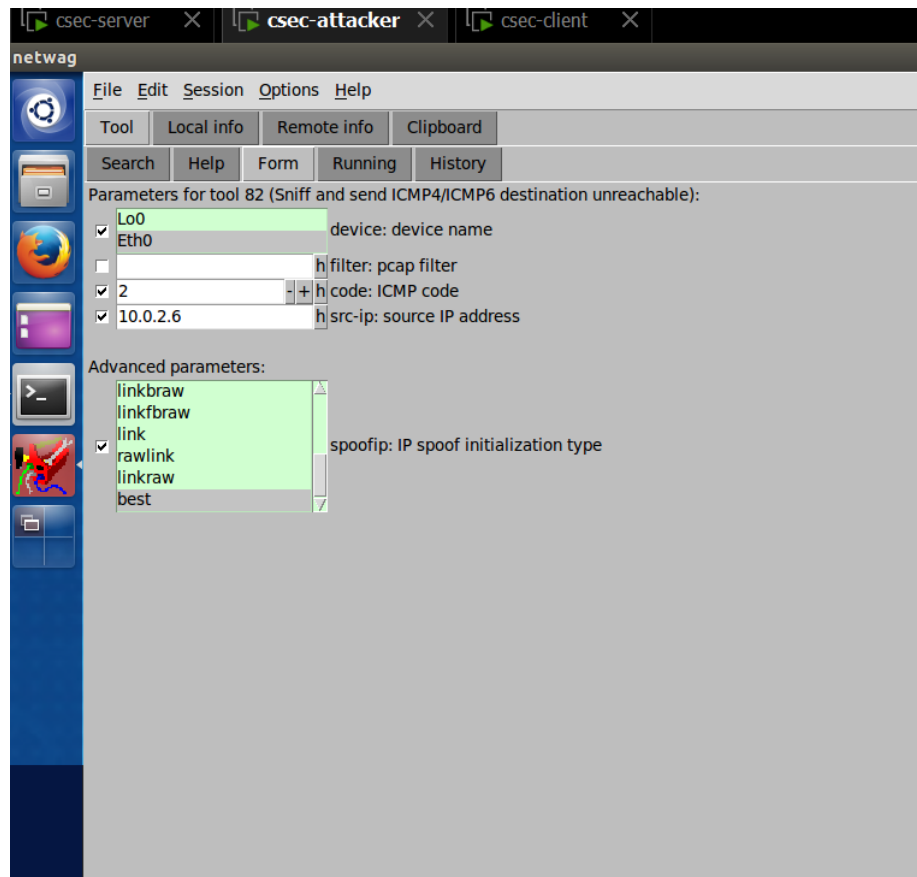
Wireshark packet capture details:

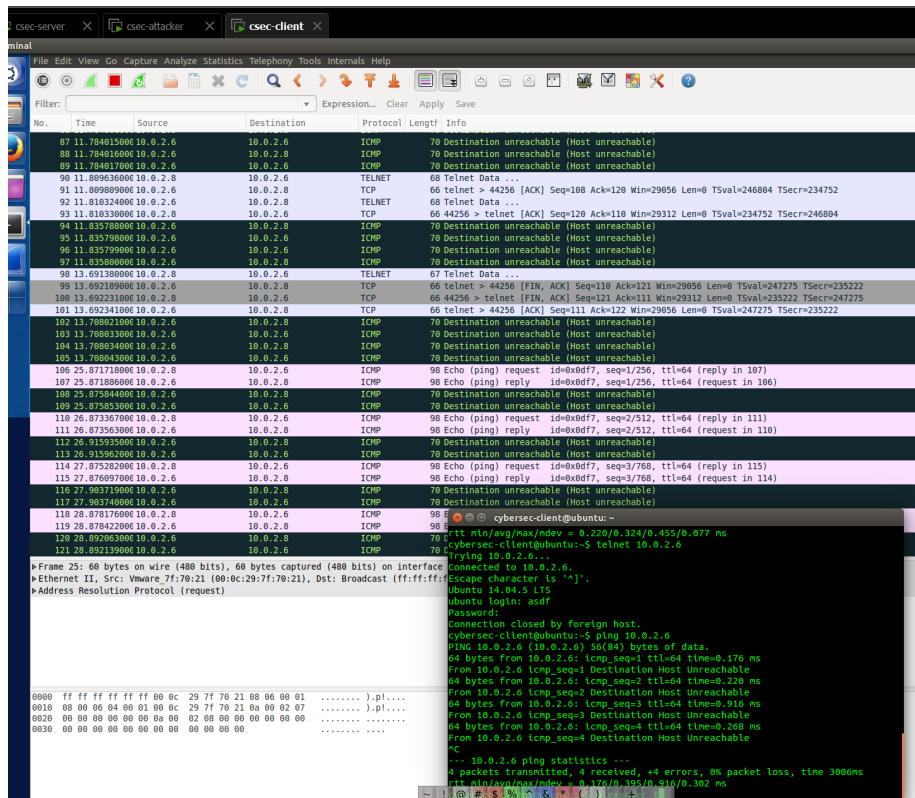
No.	Time	Source	Destination	Protocol	Length	Info
1	0.000000000	10.0.2.8	10.0.2.6	ICMP	98	Echo (ping) request id=0x0df4, seq=1/256, ttl=64 (reply in 2)
2	0.000259000	10.0.2.6	10.0.2.8	ICMP	98	Echo (ping) reply id=0x0df4, seq=1/256, ttl=64 (request in 1)
3	0.999007000	10.0.2.8	10.0.2.6	ICMP	98	Echo (ping) request id=0x0df4, seq=2/512, ttl=64 (reply in 4)
4	0.999214000	10.0.2.6	10.0.2.8	ICMP	98	Echo (ping) reply id=0x0df4, seq=2/512, ttl=64 (request in 3)
5	1.998015000	10.0.2.8	10.0.2.6	ICMP	98	Echo (ping) request id=0x0df4, seq=3/768, ttl=64 (reply in 6)
6	1.998316000	10.0.2.6	10.0.2.8	ICMP	98	Echo (ping) reply id=0x0df4, seq=3/768, ttl=64 (request in 5)
7	2.997081000	10.0.2.8	10.0.2.6	ICMP	98	Echo (ping) request id=0x0df4, seq=4/1024, ttl=64 (reply in 8)
8	2.997512000	10.0.2.6	10.0.2.8	ICMP	98	Echo (ping) reply id=0x0df4, seq=4/1024, ttl=64 (request in 7)
9	3.997584000	10.0.2.8	10.0.2.6	ICMP	98	Echo (ping) request id=0x0df4, seq=5/1280, ttl=64 (reply in 10)
10	3.997797000	10.0.2.6	10.0.2.8	ICMP	98	Echo (ping) reply id=0x0df4, seq=5/1280, ttl=64 (request in 9)
11	4.997336000	10.0.2.8	10.0.2.6	ICMP	98	Echo (ping) request id=0x0df4, seq=6/1536, ttl=64 (reply in 12)
12	4.997676000	10.0.2.6	10.0.2.8	ICMP	98	Echo (ping) reply id=0x0df4, seq=6/1536, ttl=64 (request in 11)
13	12.787844000	192.168.198.1	239.255.255.250	SSDP	217	M-SEARCH HTTP/1.1
14	12.846043000	10.0.2.7	10.0.2.6	DNS	79	Standard query 0x1129 A security.ubuntu.com
15	12.846054000	10.0.2.7	10.0.2.6	DNS	79	Standard query 0x635c AAAA security.ubuntu.com
16	12.846098000	10.0.2.7	10.0.2.6	DNS	77	Standard query 0xfbc4 A extras.ubuntu.com
17	12.846100000	10.0.2.7	10.0.2.6	DNS	77	Standard query 0x908b AAAA extras.ubuntu.com
18	12.846532000	10.0.2.7	10.0.2.6	DNS	81	Standard query 0x1465 A us.archive.ubuntu.com
19	12.846537000	10.0.2.7	10.0.2.6	DNS	81	Standard query 0xd4c7 AAAA us.archive.ubuntu.com
20	12.848770000	10.0.2.6	10.0.2.7	DNS	79	Standard query response 0x1129 Server failure
21	12.848974000	10.0.2.6	10.0.2.7	DNS	79	Standard query response 0x635c Server failure
22	12.849071000	10.0.2.7	10.0.2.6	DNS	79	Standard query 0x1129 A security.ubuntu.com
23	12.849074000	10.0.2.7	10.0.2.6	DNS	79	Standard query 0x635c AAAA security.ubuntu.com
24	12.849218000	10.0.2.6	10.0.2.7	DNS	77	Standard query response 0xfbc4 Server failure
25	12.849320000	10.0.2.6	10.0.2.7	DNS	77	Standard query response 0x908b Server failure
26	12.849434000	10.0.2.7	10.0.2.6	DNS	77	Standard query 0xfbc4 A extras.ubuntu.com
27	12.849436000	10.0.2.7	10.0.2.6	DNS	77	Standard query 0x908b AAAA extras.ubuntu.com
28	12.849437000	10.0.2.6	10.0.2.7	DNS	81	Standard query response 0x1465 Server failure
29	12.849577000	10.0.2.6	10.0.2.7	DNS	81	Standard query response 0xd4c7 Server failure
30	12.849632000	10.0.2.7	10.0.2.6	DNS	81	Standard query 0x1465 A us.archive.ubuntu.com
31	12.849649000	10.0.2.7	10.0.2.6	DNS	81	Standard query 0xd4c7 AAAA us.archive.ubuntu.com
32	12.850004000	10.0.2.6	10.0.2.7	DNS	79	Standard query response 0x1129 Server failure
33	12.850182000	10.0.2.6	10.0.2.7	DNS	79	Standard query response 0x635c Server failure
34	12.850247000	10.0.2.7	10.0.2.6	DNS	79	Standard query 0x1129 A security.ubuntu.com
35	12.850248000	10.0.2.7	10.0.2.6	DNS	79	Standard query 0x635c AAAA security.ubuntu.com

Frame 1: 98 bytes on wire (784 bits), 98 bytes captured (784 bits) on interface 00:0c:29:e8:83:c1  
Ethernet II, Src: Vmware e8:83:c1 (00:0c:29:e8:83:c1), Dst: Vmware 9d:94:e2 (08:00:0c:29:94:e2)  
Internet Protocol Version 4, Src: 10.0.2.8 (10.0.2.8), Dst: 10.0.2.6 (10.0.2.6)  
Internet Control Message Protocol

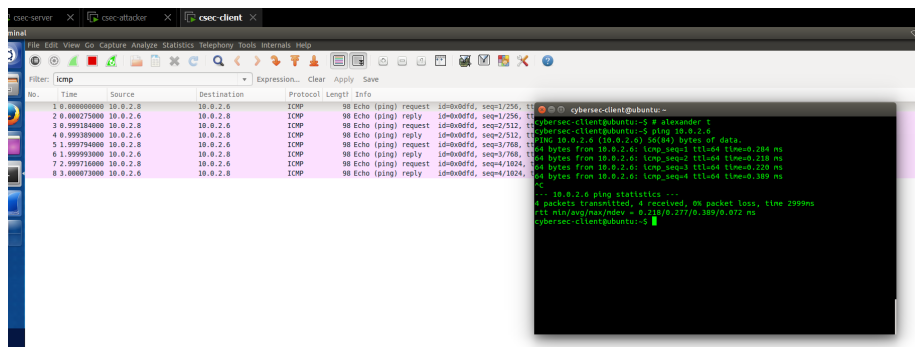
Terminal output:

```
cybersec-client@ubuntu:~$ ping 10.0.2.6
PING 10.0.2.6 (10.0.2.6) 64(64) bytes of data:
64 bytes from 10.0.2.6: icmp_seq=1 ttl=64 time=0.210 ms
64 bytes from 10.0.2.6: icmp_seq=2 ttl=64 time=0.159 ms
--- 10.0.2.6 ping statistics ---
2 packets transmitted, 2 received, 0% packet loss, time 999ms
rtt min/avg/max/mdev = 0.159/0.184/0.210/0.028 ms
cybersec-client@ubuntu:~$ alexander.t
cybersec-client@ubuntu:~$ ping 10.0.2.6
PING 10.0.2.6 (10.0.2.6) 64(64) bytes of data:
64 bytes from 10.0.2.6: icmp_seq=1 ttl=64 time=0.267 ms
64 bytes from 10.0.2.6: icmp_seq=2 ttl=64 time=0.220 ms
64 bytes from 10.0.2.6: icmp_seq=3 ttl=64 time=0.321 ms
64 bytes from 10.0.2.6: icmp_seq=4 ttl=64 time=0.455 ms
64 bytes from 10.0.2.6: icmp_seq=5 ttl=64 time=0.314 ms
64 bytes from 10.0.2.6: icmp_seq=6 ttl=64 time=0.371 ms
^C
--- 10.0.2.6 ping statistics ---
6 packets transmitted, 6 received, 0% packet loss, time 499ms
rtt min/avg/max/mdev = 0.220/0.324/0.455/0.077 ms
cybersec-client@ubuntu:~$
```





## (ii) Source-Quench Attacks



Filter: icmp

No.	Time	Source	Destination	Protocol	Length	Info
1	0.000000000	10.0.2.8	10.0.2.6	ICMP	98	Echo (ping) request id=0x00ff, seq=1/256, ttl=64
2	0.000275000	10.0.2.6	10.0.2.8	ICMP	98	Echo (ping) reply id=0x00ff, seq=1/256, ttl=64
3	0.000344000	10.0.2.8	10.0.2.6	ICMP	98	Echo (ping) request id=0x00ff, seq=2/512, ttl=64
4	0.000393000	10.0.2.6	10.0.2.8	ICMP	98	Echo (ping) reply id=0x00ff, seq=2/512, ttl=64
5	0.000794000	10.0.2.8	10.0.2.6	ICMP	98	Echo (ping) request id=0x00ff, seq=3/768, ttl=64
6	0.000833000	10.0.2.6	10.0.2.8	ICMP	98	Echo (ping) reply id=0x00ff, seq=3/768, ttl=64
7	0.000716000	10.0.2.8	10.0.2.6	ICMP	98	Echo (ping) request id=0x00ff, seq=4/1024, ttl=64
8	0.000833000	10.0.2.6	10.0.2.8	ICMP	98	Echo (ping) reply id=0x00ff, seq=4/1024, ttl=64

... 10.0.2.6 ping statistics ...  
 4 packets transmitted, 4 received, 0% packet loss, time 299ms  
 rtt min/avg/max/mdev = 0.210/0.277/0.389/0.072 ms  
 cybersec-client@ubuntu:~\$

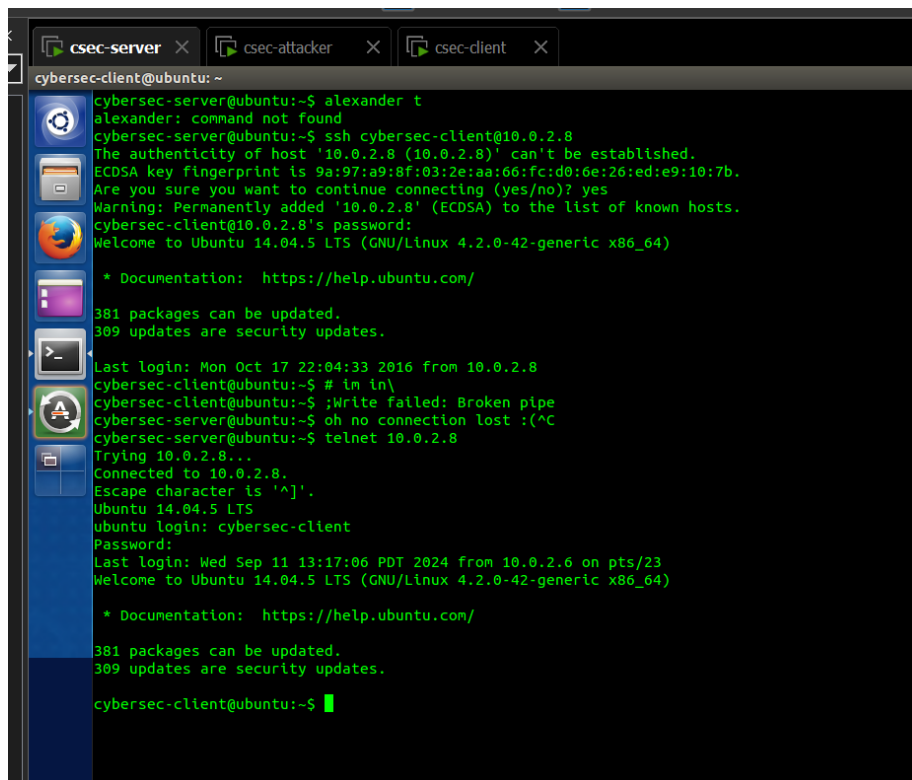
Filter: icmp

No.	Time	Source	Destination	Protocol	Length	Info
1	0.000000000	10.0.2.8	10.0.2.6	ICMP	98	Echo (ping) request id=0x00ff, seq=1/256, ttl=64
2	0.000275000	10.0.2.6	10.0.2.8	ICMP	98	Echo (ping) reply id=0x00ff, seq=1/256, ttl=64
3	0.000344000	10.0.2.8	10.0.2.6	ICMP	98	Echo (ping) request id=0x00ff, seq=2/512, ttl=64
4	0.000393000	10.0.2.6	10.0.2.8	ICMP	98	Echo (ping) reply id=0x00ff, seq=2/512, ttl=64
5	0.000794000	10.0.2.8	10.0.2.6	ICMP	98	Echo (ping) request id=0x00ff, seq=3/768, ttl=64
6	0.000833000	10.0.2.6	10.0.2.8	ICMP	98	Echo (ping) reply id=0x00ff, seq=3/768, ttl=64
7	0.000716000	10.0.2.8	10.0.2.6	ICMP	98	Echo (ping) request id=0x00ff, seq=4/1024, ttl=64
8	0.000833000	10.0.2.6	10.0.2.8	ICMP	98	Echo (ping) reply id=0x00ff, seq=4/1024, ttl=64
24	0.186785000	10.0.2.8	10.0.2.6	ICMP	98	Echo (ping) request id=0x00ff, seq=1/256, ttl=64
25	0.186890000	10.0.2.6	10.0.2.8	ICMP	98	Echo (ping) reply id=0x00ff, seq=1/256, ttl=64
26	0.187155000	10.0.2.8	10.0.2.6	ICMP	78	Source quench (flow control)
27	0.187155000	10.0.2.6	10.0.2.8	ICMP	78	Source quench (flow control)
31	0.198414000	10.0.2.8	10.0.2.6	ICMP	98	Echo (ping) request id=0x00ff, seq=2/512, ttl=64
32	0.198414000	10.0.2.6	10.0.2.8	ICMP	98	Echo (ping) reply id=0x00ff, seq=2/512, ttl=64
33	0.198414000	10.0.2.8	10.0.2.6	ICMP	78	Source quench (flow control)
34	0.198414000	10.0.2.6	10.0.2.8	ICMP	78	Source quench (flow control)
34	0.200711000	10.0.2.8	10.0.2.6	ICMP	98	Echo (ping) request id=0x00ff, seq=3/768, ttl=64
35	0.201540000	10.0.2.6	10.0.2.8	ICMP	98	Echo (ping) reply id=0x00ff, seq=3/768, ttl=64
36	0.201540000	10.0.2.8	10.0.2.6	ICMP	78	Source quench (flow control)
37	0.201540000	10.0.2.6	10.0.2.8	ICMP	78	Source quench (flow control)
38	0.202711000	10.0.2.8	10.0.2.6	ICMP	98	Echo (ping) request id=0x00ff, seq=4/1024, ttl=64
39	0.202711000	10.0.2.6	10.0.2.8	ICMP	98	Echo (ping) reply id=0x00ff, seq=4/1024, ttl=64
40	0.202711000	10.0.2.8	10.0.2.6	ICMP	78	Source quench (flow control)
41	0.202711000	10.0.2.6	10.0.2.8	ICMP	78	Source quench (flow control)

... 10.0.2.6 ping statistics ...  
 4 packets transmitted, 4 received, 0% packet loss, time 299ms  
 rtt min/avg/max/mdev = 0.210/0.277/0.389/0.072 ms  
 cybersec-client@ubuntu:~\$ ping 10.0.2.6  
 PING 10.0.2.6 (10.0.2.6): 56(64) bytes of data:  
 64 bytes from 10.0.2.6: icmp\_seq=1 ttl=64 time=0.284 ms  
 from 10.0.2.6: icmp\_seq=1 Source Quench  
 64 bytes from 10.0.2.6: icmp\_seq=2 ttl=64 time=0.228 ms  
 from 10.0.2.6: icmp\_seq=2 Source Quench  
 64 bytes from 10.0.2.6: icmp\_seq=3 ttl=64 time=0.228 ms  
 from 10.0.2.6: icmp\_seq=3 Source Quench  
 64 bytes from 10.0.2.6: icmp\_seq=4 ttl=64 time=0.389 ms  
 from 10.0.2.6: icmp\_seq=4 Source Quench  
 ^C  
 ... 10.0.2.6 ping statistics ...  
 4 packets transmitted, 4 received, 0% packet loss, time 388ms  
 rtt min/avg/max/mdev = 0.240/0.326/0.411/0.063 ms  
 cybersec-client@ubuntu:~\$

Frame 1: 98 bytes on wire (784 bits), 98 bytes captured (784 bits) on interface 0  
 Ethernet II, Src: VMware 08:00:00:08:00:08, Dst: VMware 08:00:00:08:00:08  
 Internet Protocol Version 4, Src: 10.0.2.8 (10.0.2.8), Dst: 10.0.2.6 (10.0.2.6)  
 Internet Control Message Protocol

## Task 6 - TCP Session Hijacking



The image shows a terminal window with three tabs: 'csec-server', 'csec-attacker', and 'csec-client'. The 'csec-client' tab is active, showing a series of commands and their outputs. The user 'alexander' attempts to run 'alexander t', which fails. Then, they attempt to SSH into 'cybersec-client@10.0.2.8', which fails due to an authenticity issue. The user then enters the password for 'cybersec-client@10.0.2.8'. The terminal shows the login process, including the Ubuntu logo, version (14.04.5 LTS), and login details. The user then enters a command that causes a 'Broken pipe' error, and the terminal shows the connection being lost. Finally, the user enters 'telnet 10.0.2.8', which successfully connects to the target IP.

```
cybersec-client@ubuntu:~  
cybersec-server@ubuntu:~$ alexander t  
alexander: command not found  
cybersec-server@ubuntu:~$ ssh cybersec-client@10.0.2.8  
The authenticity of host '10.0.2.8 (10.0.2.8)' can't be established.  
ECDSA key fingerprint is 9a:97:a9:8f:03:2e:aa:66:fc:d0:6e:26:ed:e9:10:7b.  
Are you sure you want to continue connecting (yes/no)? yes  
Warning: Permanently added '10.0.2.8' (ECDSA) to the list of known hosts.  
cybersec-client@10.0.2.8's password:  
Welcome to Ubuntu 14.04.5 LTS (GNU/Linux 4.2.0-42-generic x86_64)  
  
* Documentation:  https://help.ubuntu.com/  
  
381 packages can be updated.  
309 updates are security updates.  
  
Last login: Mon Oct 17 22:04:33 2016 from 10.0.2.8  
cybersec-client@ubuntu:~$ # in in  
cybersec-client@ubuntu:~$ ;Write failed: Broken pipe  
cybersec-server@ubuntu:~$ oh no connection lost :(^C  
cybersec-server@ubuntu:~$ telnet 10.0.2.8  
Trying 10.0.2.8...  
Connected to 10.0.2.8.  
Escape character is '^]'.  
Ubuntu 14.04.5 LTS  
ubuntu login: cybersec-client  
Password:  
Last login: Wed Sep 11 13:17:06 PDT 2024 from 10.0.2.6 on pts/23  
Welcome to Ubuntu 14.04.5 LTS (GNU/Linux 4.2.0-42-generic x86_64)  
  
* Documentation:  https://help.ubuntu.com/  
  
381 packages can be updated.  
309 updates are security updates.  
  
cybersec-client@ubuntu:~$
```

Wireshark 1.10.6 (v1.10.6 from master-1.10)

Filter: telnet

No.	Time	Source	Destination	Protocol	Length	Info
391	39.711621000	10.0.2.6	10.0.2.8	TELNET	67	Telnet Data ...
392	39.711729000	10.0.2.8	10.0.2.6	TELNET	67	Telnet Data ...
397	39.726222000	10.0.2.6	10.0.2.8	TELNET	67	Telnet Data ...
398	39.726274000	10.0.2.8	10.0.2.6	TELNET	67	Telnet Data ...
403	40.231087000	10.0.2.6	10.0.2.8	TELNET	68	Telnet Data ...
404	40.231342000	10.0.2.8	10.0.2.6	TELNET	68	Telnet Data ...
406	40.232309000	10.0.2.8	10.0.2.6	TELNET	315	Telnet Data ...
413	40.744884000	10.0.2.6	10.0.2.8	TELNET	67	Telnet Data ...
414	40.744884000	10.0.2.8	10.0.2.6	TELNET	67	Telnet Data ...
419	41.326455000	10.0.2.6	10.0.2.8	TELNET	67	Telnet Data ...
420	41.326564000	10.0.2.8	10.0.2.6	TELNET	67	Telnet Data ...
425	41.939414000	10.0.2.6	10.0.2.8	TELNET	67	Telnet Data ...
426	41.939517000	10.0.2.8	10.0.2.6	TELNET	67	Telnet Data ...
431	42.270555000	10.0.2.6	10.0.2.8	TELNET	67	Telnet Data ...
432	42.270693000	10.0.2.8	10.0.2.6	TELNET	67	Telnet Data ...
437	42.403116000	10.0.2.6	10.0.2.8	TELNET	67	Telnet Data ...
438	42.403213000	10.0.2.8	10.0.2.6	TELNET	67	Telnet Data ...
443	42.535851000	10.0.2.6	10.0.2.8	TELNET	67	Telnet Data ...
444	42.535984000	10.0.2.8	10.0.2.6	TELNET	67	Telnet Data ...
449	42.671637000	10.0.2.6	10.0.2.8	TELNET	67	Telnet Data ...
450	42.671781000	10.0.2.8	10.0.2.6	TELNET	67	Telnet Data ...
455	42.742332000	10.0.2.6	10.0.2.8	TELNET	67	Telnet Data ...
456	42.742473000	10.0.2.8	10.0.2.6	TELNET	67	Telnet Data ...
461	42.806912000	10.0.2.6	10.0.2.8	TELNET	67	Telnet Data ...
462	42.807063000	10.0.2.8	10.0.2.6	TELNET	67	Telnet Data ...
467	42.866110000	10.0.2.6	10.0.2.8	TELNET	67	Telnet Data ...
468	42.866228000	10.0.2.8	10.0.2.6	TELNET	67	Telnet Data ...
473	42.973784000	10.0.2.6	10.0.2.8	TELNET	67	Telnet Data ...
474	42.973884000	10.0.2.8	10.0.2.6	TELNET	67	Telnet Data ...
479	43.052362000	10.0.2.6	10.0.2.8	TELNET	67	Telnet Data ...
480	43.052365000	10.0.2.8	10.0.2.6	TELNET	67	Telnet Data ...
485	43.160799000	10.0.2.6	10.0.2.8	TELNET	67	Telnet Data ...
486	43.160911000	10.0.2.8	10.0.2.6	TELNET	67	Telnet Data ...
491	43.226582000	10.0.2.6	10.0.2.8	TELNET	68	Telnet Data ...
492	43.226727000	10.0.2.8	10.0.2.6	TELNET	124	Telnet Data ...

Frame 413: 67 bytes on wire (536 bits), 67 bytes captured (536 bits) on interface 0  
 Ethernet II, Src: Vmware 9d:94:e2 (00:0c:29:9d:94:e2), Dst: Vmware e8:83:c1 (00:0c:29:e8:83:c1)  
 Internet Protocol Version 4, Src: 10.0.2.6 (10.0.2.6), Dst: 10.0.2.8 (10.0.2.8)  
 Transmission Control Protocol, Src Port: 35456 (35456), Dst Port: telnet (23), Seq: 174, Ack: 856, Len: 1  
 Telnet  
 Data: #

```

0000  00 0c 29 e8 83 c1 00 0c 29 9d 94 e2 08 00 45 10  ..)....E.
0010  00 25 5b 3f 40 00 00 c7 66 0a 00 02 06 0a 00  ..5[70-0..f.....
0020  02 08 0a 00 00 17 b0 4d 49 f7 a4 4e 7c 9a 80 18  .....M I.N]...
0030  00 f5 4d da 00 00 01 01 08 0a 00 05 3b 4e 00 05  ..M.....;N...
0040  00 ba 23                                     ...#
  
```



Wireshark 1.10.6 (v1.10.6 from master-1.10)

Filter: telnet

No.	Time	Source	Destination	Protocol	Length	Info
391	39.711621000	10.0.2.6	10.0.2.8	TELNET	67	Telnet Data ...
392	39.711729000	10.0.2.8	10.0.2.6	TELNET	67	Telnet Data ...
397	39.726220000	10.0.2.6	10.0.2.8	TELNET	67	Telnet Data ...
398	39.726274000	10.0.2.8	10.0.2.6	TELNET	67	Telnet Data ...
403	40.231007000	10.0.2.6	10.0.2.8	TELNET	68	Telnet Data ...
404	40.231342000	10.0.2.8	10.0.2.6	TELNET	68	Telnet Data ...
405	40.233300000	10.0.2.6	10.0.2.8	TELNET	315	Telnet Data ...

Frame 492: 124 bytes on wire (992 bits), 124 bytes captured (992 bits) on interface 0

Ethernet II, Src: Vmware e8:83:c1 (00:0c:29:e8:83:c1), Dst: Vmware 9d:94:e2 (00:0c:29:9d:94:e2)

Internet Protocol Version 4, Src: 10.0.2.8 (10.0.2.8), Dst: 10.0.2.6 (10.0.2.6)

Transmission Control Protocol, Src Port: telnet (23), Dst Port: 35456 (35456), Seq: 2756607143, Ack: 2957855238, Len: 58

Source port: telnet (23)

Destination port: 35456 (35456)

[Stream index: 0]

Sequence number: 2756607143

[Next sequence number: 2756607201]

Acknowledgment number: 2957855238

Header length: 32 bytes

Flags: 0x018 (PSH, ACK)

Window size value: 227

[Calculated window size: 29056]

[Window size scaling factor: 128]

Checksum: 0x1866 [validation disabled]

Options: (12 bytes), No-Operation (NOP), No-Operation (NOP), Timestamps

[SEQ/ACK analysis]

Telnet

```

0000  00 0c 29 9d 94 e2 00 0c 29 e8 83 c1 00 00 45 10  .....).....E.
0010  00 0e 9d 90 40 00 40 06 84 dc 0a 00 02 08 0a 00  .n..@.....
0020  02 06 00 17 8a 80 a4 4e 7c a7 b0 4d 4a 06 00 10  ....N|.MJ...
0030  00 a3 18 0e 00 00 01 01 08 0a 00 05 0e a6 00 05  ..n.....
0040  00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00  ....
0050  2d 63 6c 69 65 6e 74 40 75 62 75 6e 74 75 3a 20  ~client@ ubuntu:
0060  7e 07 63 79 62 65 72 73 65 63 2d 63 6c 69 65 6e  ~cybers ec-clien
0070  74 40 75 62 75 6e 74 75 3a 7e 24 20  t@ubuntu :~$

```

1052 1875.4593356 10.0.2.8 10.0.2.6 TELNET 70 Telnet Data ...

1218 2542.0241526 10.0.2.6 10.0.2.8 TELNET 65 Telnet Data ...

1219 2542.0252426 10.0.2.6 10.0.2.6 TELNET 78 Telnet Data ...

1220 2542.2265090 10.0.2.8 10.0.2.6 TELNET 122 Telnet Data ...

1222 2542.4311590 10.0.2.6 10.0.2.6 TELNET 134 [TCP Retransmission] Telnet Data ...

1223 2542.0401630 10.0.2.8 10.0.2.6 TELNET 134 [TCP Retransmission] Telnet Data ...

1224 2543.0549930 10.0.2.8 10.0.2.6 TELNET 134 [TCP Retransmission] Telnet Data ...

1225 2545.2910770 10.0.2.6 10.0.2.6 TELNET 134 [TCP Retransmission] Telnet Data ...

1230 2540.3450490 10.0.2.6 10.0.2.6 TELNET 134 [TCP Retransmission] Telnet Data ...

1231 2555.1032050 10.0.2.8 10.0.2.6 TELNET 134 [TCP Retransmission] Telnet Data ...

1232 2568.1920840 10.0.2.8 10.0.2.6 TELNET 134 [TCP Retransmission] Telnet Data ...

Frame 1219: 78 bytes on wire (624 bits), 78 bytes captured (624 bits) on interface 0

Ethernet II, Src: Vmware e8:83:c1 (00:0c:29:e8:83:c1), Dst: Vmware 9d:94:e2 (00:0c:29:9d:94:e2)

Internet Protocol Version 4, Src: 10.0.2.8 (10.0.2.8), Dst: 10.0.2.6 (10.0.2.6)

Transmission Control Protocol, Src Port: telnet (23), Dst Port: 35456 (35456), Seq: 2756607272, Ack: 2957855262, Len: 12

Telnet

Data: mkdir alex\r\n

```

From 10.0.2.6: icmp_seq=4 Source Quench
^X^C
--- 10.0.2.6 ping statistics ---
4 packets transmitted, 4 received, 0% packet loss, time 3005ms
rtt min/avg/max/mdev = 0.240/0.326/0.411/0.063 ms
cybersec-client@ubuntu:~$ ls
alex  Documents  examples.desktop  Pictures  Templates
Desktop Downloads Music                Public    Videos
cybersec-client@ubuntu:~$

```