

CS380 Exercise 5

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GitHub URL: <https://github.com/davidws22/CS380-EX5>

ifconfig

The screenshot shows two side-by-side terminal windows on an Ubuntu 12.04 desktop environment. Both terminals are running the command `ifconfig`. The left terminal's output is as follows:

```
[10/31/2017 20:28] seed@ubuntu:~$ ifconfig
eth13    Link encap:Ethernet HWaddr 08:00:27:11:f5:29
          inet addr:10.0.2.4 Bcast:10.0.2.255 Mask:255.255.255.0
          inet6 addr: fe80::a00:27ff:fe11:f529/64 Scope:Link
            UP BROADCAST RUNNING MULTICAST MTU:1500 Metric:1
            RX packets:177 errors:0 dropped:0 overruns:0 frame:0
            TX packets:184 errors:0 dropped:0 overruns:0 carrier:0
            collisions:0 txqueuelen:1000
            RX bytes:69856 (69.8 KB) TX bytes:21476 (21.4 KB)

lo      Link encap:Local Loopback
          inet addr:127.0.0.1 Mask:255.0.0.0
          inet6 addr: ::1/128 Scope:Host
            UP LOOPBACK RUNNING MTU:16436 Metric:1
            RX packets:62 errors:0 dropped:0 overruns:0 frame:0
            TX packets:62 errors:0 dropped:0 overruns:0 carrier:0
            collisions:0 txqueuelen:0
            RX bytes:6457 (6.4 KB) TX bytes:6457 (6.4 KB)

[10/31/2017 20:28] seed@ubuntu:~$
```

The right terminal's output is as follows:

```
[10/31/2017 20:28] seed@ubuntu:~$ ifconfig
eth14    Link encap:Ethernet HWaddr 08:00:27:98:12:70
          inet addr:10.0.2.5 Bcast:10.0.2.255 Mask:255.255.255.0
          inet6 addr: fe80::a00:27ff:fe98:1270/64 Scope:Link
            UP BROADCAST RUNNING MULTICAST MTU:1500 Metric:1
            RX packets:127 errors:0 dropped:0 overruns:0 frame:0
            TX packets:188 errors:0 dropped:0 overruns:0 carrier:0
            collisions:0 txqueuelen:1000
            RX bytes:58619 (58.6 KB) TX bytes:21561 (21.5 KB)

lo      Link encap:Local Loopback
          inet addr:127.0.0.1 Mask:255.0.0.0
          inet6 addr: ::1/128 Scope:Host
            UP LOOPBACK RUNNING MTU:16436 Metric:1
            RX packets:66 errors:0 dropped:0 overruns:0 frame:0
            TX packets:66 errors:0 dropped:0 overruns:0 carrier:0
            collisions:0 txqueuelen:0
            RX bytes:6866 (6.8 KB) TX bytes:6866 (6.8 KB)

[10/31/2017 20:29] seed@ubuntu:~$
```

Ping 5

The screenshot shows two side-by-side terminal windows on an Ubuntu 12.04 desktop environment. Both terminals are running the command `ping -c 5` to test connectivity between hosts. The left terminal's output is as follows:

```
[10/31/2017 20:28] seed@ubuntu:~$ ping -c 5 10.0.2.5
PING 10.0.2.5 (10.0.2.5) 56(84) bytes of data.
64 bytes from 10.0.2.5: icmp_req=1 ttl=64 time=0.956 ms
64 bytes from 10.0.2.5: icmp_req=2 ttl=64 time=0.523 ms
64 bytes from 10.0.2.5: icmp_req=3 ttl=64 time=0.562 ms
64 bytes from 10.0.2.5: icmp_req=4 ttl=64 time=0.355 ms
64 bytes from 10.0.2.5: icmp_req=5 ttl=64 time=0.591 ms

--- 10.0.2.5 ping statistics ---
5 packets transmitted, 5 received, 0% packet loss, time 4000ms
rtt min/avg/max/mdev = 0.355/0.597/0.956/0.198 ms
[10/31/2017 20:36] seed@ubuntu:~$
```

The right terminal's output is as follows:

```
[10/31/2017 20:29] seed@ubuntu:~$ ping -c 5 10.0.2.4
inet6 addr: ::1/128 Scope:Host
            UP LOOPBACK RUNNING MTU:16436 Metric:1
            RX packets:66 errors:0 dropped:0 overruns:0 frame:0
            TX packets:66 errors:0 dropped:0 overruns:0 carrier:0
            collisions:0 txqueuelen:0
            RX bytes:6866 (6.8 KB) TX bytes:6866 (6.8 KB)

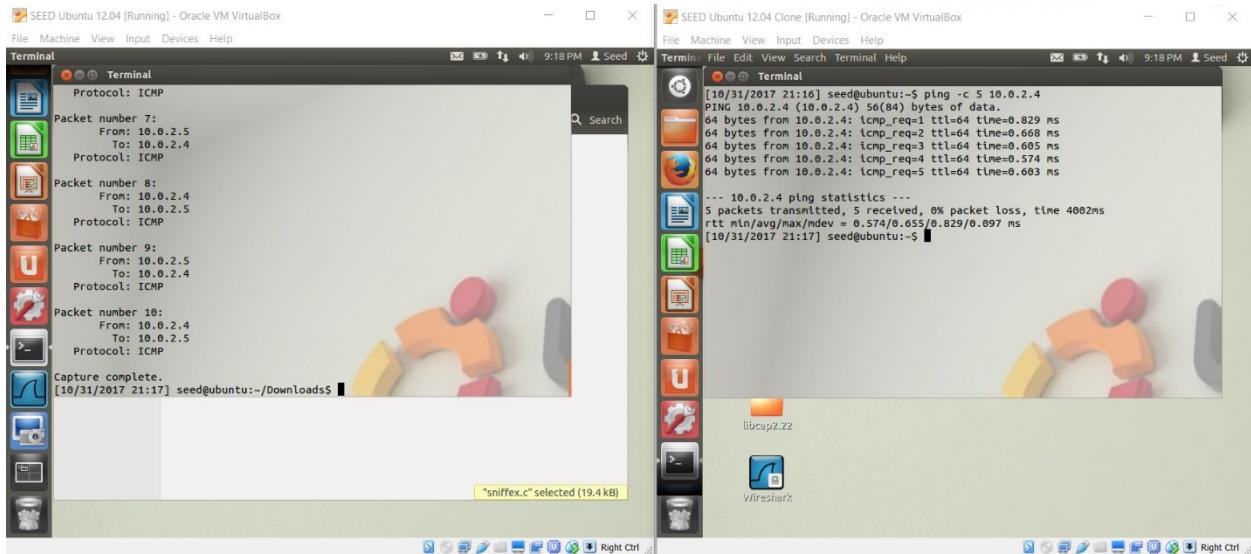
Usage: ping [-LRUbdfnqrVvAD] [-c count] [-i interval] [-w deadline]
          [-p pattern] [-s packetsize] [-t ttl] [-I interface]
          [-P pidfile] [-S source] [-M mark] [-B sndbuf]
          [-T timestamp-options] [-0 tos] [hop... destination]

[10/31/2017 20:37] seed@ubuntu:~$ ping -c 5 10.0.2.4
PING 10.0.2.4 (10.0.2.4) 56(84) bytes of data.
64 bytes from 10.0.2.4: icmp_req=1 ttl=64 time=0.238 ms
64 bytes from 10.0.2.4: icmp_req=2 ttl=64 time=0.557 ms
64 bytes from 10.0.2.4: icmp_req=3 ttl=64 time=0.590 ms
64 bytes from 10.0.2.4: icmp_req=4 ttl=64 time=0.549 ms
64 bytes from 10.0.2.4: icmp_req=5 ttl=64 time=0.638 ms

--- 10.0.2.4 ping statistics ---
5 packets transmitted, 5 received, 0% packet loss, time 3998ms
rtt min/avg/max/mdev = 0.238/0.514/0.638/0.143 ms
[10/31/2017 20:37] seed@ubuntu:~$
```

Use of the PCAP library is generally comprised of five steps. First we need to specify which interface we need to sniff on. In C, we specify which interface we would like to sniff on by providing a command-line argument. In our case it was eth14. Second, we need to set up a valid file handle by calling the pcap_open_live() function, which returns a session handler. Third, we specify which type of packet to sniff for whether it may be TCP or IP. Fourth, we will loop until n number of packets has been saved by using the function pcap_next(), which returns a pointer to an unsigned char. Finally, pcap closes its session and ends the program.

Sniffex1



TCP filtering

SEED Ubuntu 12.04 [Running] - Oracle VM VirtualBox

File Machine View Input Devices Help

Terminal

```
[10/31/2017 21:47] seed@ubuntu:~/Downloads$ sudo ./sniffex eth13
[sudo] password for seed:
sniffex - Sniffer example using libpcap
Copyright (c) 2005 The Tcpdump Group
THERE IS ABSOLUTELY NO WARRANTY FOR THIS PROGRAM.

Device: eth13
Number of packets: 10
Filter expression: tcp

Packet number 1:
    From: 10.0.2.4
        To: 128.230.208.76
    Protocol: TCP
    Src port: 43039
    Dst port: 80

Packet number 2:
    From: 128.230.208.76
        To: 10.0.2.4
    Protocol: TCP
    Src port: 80
    Dst port: 43039

Packet number 3:
    From: 10.0.2.4
        To: 128.230.208.76
    Protocol: TCP
    Src port: 43039
    Dst port: 80

Packet number 4:
    From: 10.0.2.4
        To: 128.230.208.76
    Protocol: TCP
    Src port: 43039
    Dst port: 80
    Payload (302 bytes):
00000  47 45 54 20 2f 66 61 76  69 63 6f 6e 2e 69 63 6f  GET /favicon.ico
00016  20 48 54 54 50 2f 31 2e  31 0d 0a 48 6f 73 74 3a  HTTP/1.1..Host:
00032  20 77 77 77 2e 63 69 73  2e 73 79 72 2e 65 64 75  www.cis.syr.edu
00048  0d 0a 55 73 65 72 2d 41  67 65 6e 74 3a 20 4d 6f  ..User-Agent: Mo
00064  7a 69 6c 6c 61 2f 35 2e  30 20 28 58 31 31 3b 20  zilla/5.0 (X11;
00080  55 62 75 6e 74 75 3b 20  4c 69 6e 75 78 20 69 36  Ubuntu; Linux i6
00096  38 36 3b 20 72 76 3a 32  33 2e 30 29 20 47 65 63  86; rv:23.0) Gec
00112  6b 6f 2f 32 30 31 30 30  31 30 31 20 46 69 72 65  ko/20100101 Fire
00128  66 6f 78 2f 32 33 2e 30  0d 0a 41 63 63 65 70 74  fox/23.0..Accept
```

SEED Ubuntu 12.04 [Running] - Oracle VM VirtualBox

File Machine View Input Devices Help

9:56 PM Seed

Terminal

```
00272 74 65 0d 0a 43 6f 6e 6e 65 63 74 69 6f 6e 3a 20      te..Connection:  
00288 6b 65 65 70 2d 61 6c 69 76 65 0d 0a 0d 0a           keep-alive....
```

```
Packet number 5:  
    From: 128.230.208.76  
    To: 10.0.2.4  
Protocol: TCP  
Src port: 80  
Dst port: 43039
```

```
Packet number 6:  
    From: 128.230.208.76  
    To: 10.0.2.4  
Protocol: TCP  
Src port: 80  
Dst port: 43039  
Payload (424 bytes):
```

```
00000 48 54 54 50 2f 31 2e 31 20 34 30 34 20 4e 6f 74      HTTP/1.1 404 Not  
00016 20 46 6f 75 6e 64 0d 0a 44 61 74 65 3a 20 57 65     Found..Date: We  
00032 64 2c 20 30 31 20 4e 6f 76 20 32 30 31 37 20 30     d, 01 Nov 2017 0  
00048 34 3a 35 32 3a 30 35 20 47 4d 54 0d 0a 53 65 72     4:52:05 GMT..Ser  
00064 76 65 72 3a 20 41 70 61 63 68 65 2f 32 2e 32 2e     ver: Apache/2.2.  
00080 33 34 20 28 55 6e 69 78 29 0d 0a 43 6f 6e 74 65     34 (Unix)..Conte  
00096 6e 74 2d 4c 65 6e 67 74 68 3a 20 32 30 39 0d 0a     nt-Length: 209..  
00112 4b 65 65 70 2d 41 6c 69 76 65 3a 20 74 69 6d 65     Keep-Alive: time  
00128 6f 75 74 3d 35 2c 20 6d 61 78 3d 31 30 30 0d 0a     out=5, max=100..  
00144 43 6f 6e 6e 65 63 74 69 6f 6e 3a 20 4b 65 65 70     Connection: Keep  
00160 2d 41 6c 69 76 65 0d 0a 43 6f 6e 74 65 6e 74 2d     -Alive..Content-  
00176 54 79 70 65 3a 20 74 65 78 74 2f 68 74 6d 6c 3b     Type: text/html;  
00192 20 63 68 61 72 73 65 74 3d 69 73 6f 2d 38 38 35     charset=iso-885  
00208 39 2d 31 0d 0a 0d 0a 3c 21 44 4f 43 54 59 50 45     9-1....<!DOCTYPE  
00224 20 48 54 4d 4c 20 50 55 42 4c 49 43 20 22 2d 2f     HTML PUBLIC "-//  
00240 2f 49 45 54 46 2f 2f 44 54 44 20 48 54 4d 4c 20     /IETF//DTD HTML  
00256 32 2e 30 2f 2f 45 4e 22 3e 0a 3c 68 74 6d 6c 3e     2.0//EN">.<html>  
00272 3c 68 65 61 64 3e 0a 3c 74 69 74 6c 65 3e 34 30     <head>.<title>40  
00288 34 20 4e 6f 74 20 46 6f 75 6e 64 3c 2f 74 69 74     4 Not Found</tit  
00304 6c 65 3e 0a 3c 2f 68 65 61 64 3e 3c 62 6f 64 79     le>.</head><body>  
00320 3e 0a 3c 68 31 3e 4e 6f 74 20 46 6f 75 6e 64 3c     >.h1>Not Found<  
00336 2f 68 31 3e 0a 3c 70 3e 54 68 65 20 72 65 71 75     /h1>.<p>The requ  
00352 65 73 74 65 64 20 55 52 4c 20 2f 66 61 76 69 63     ested URL /favicon.  
00368 6f 6e 2e 69 63 6f 20 77 61 73 20 6e 6f 74 20 66     ico was not f  
00384 6f 75 6e 64 20 6f 6e 20 74 68 69 73 20 73 65 72     ound on this ser  
00400 76 65 72 2e 3c 2f 70 3e 0a 3c 2f 62 6f 64 79 3e     ver.</p>.</body>  
00416 3c 2f 68 74 6d 6c 3e 0a 64 79 3e 2f 62 6f 64 79 3e     </html>.
```

```
Packet number 7:  
From: 10.0.2.4
```

Right Ctrl

SEED Ubuntu 12.04 [Running] - Oracle VM VirtualBox

File Machine View Input Devices Help

Terminal

00176 54 79 70 65 3a 20 74 65 78 74 2f 68 74 6d 6c 3b
00192 20 63 68 61 72 73 65 74 3d 69 73 6f 2d 38 38 35
00208 39 2d 31 0d 0a 0d 0a 3c 21 44 4f 43 54 59 50 45
00224 20 48 54 4d 4c 20 50 55 42 4c 49 43 20 22 2d 2f
00240 2f 49 45 54 46 2f 2f 44 54 44 20 48 54 4d 4c 20
00256 32 2e 30 2f 2f 45 4e 22 3e 0a 3c 68 74 6d 6c 3e
00272 3c 68 65 61 64 3e 0a 3c 74 69 74 6c 65 3e 34 30
00288 34 20 4e 6f 74 20 46 6f 75 6e 64 3c 2f 74 69 74
00304 6c 65 3e 0a 3c 2f 68 65 61 64 3e 3c 62 6f 64 79
00320 3e 0a 3c 68 31 3e 4e 6f 74 20 46 6f 75 6e 64 3c
00336 2f 68 31 3e 0a 3c 70 3e 54 68 65 20 72 65 71 75
00352 65 73 74 65 64 20 55 52 4c 20 2f 66 61 76 69 63
00368 6f 6e 2e 69 63 6f 20 77 61 73 20 6e 6f 74 20 66
00384 6f 75 6e 64 20 6f 6e 20 74 68 69 73 20 73 65 72
00400 76 65 72 2e 3c 2f 70 3e 0a 3c 2f 62 6f 64 79 3e
00416 3c 2f 68 74 6d 6c 3e 0a

Type: text/html;
charset=iso-885
9-1....<!DOCTYPE
HTML PUBLIC "-//
IETF//DTD HTML
2.0//EN">.<html>
<head>.<title>40
4 Not Found</tit
le>.</head><body>
<h1>Not Found<
/h1>.<p>The requ
ested URL /favicon.ico was not f
ound on this ser
ver.</p>.</body>
</html>.

Packet number 7:
From: 10.0.2.4
To: 128.230.208.76
Protocol: TCP
Src port: 43039
Dst port: 80

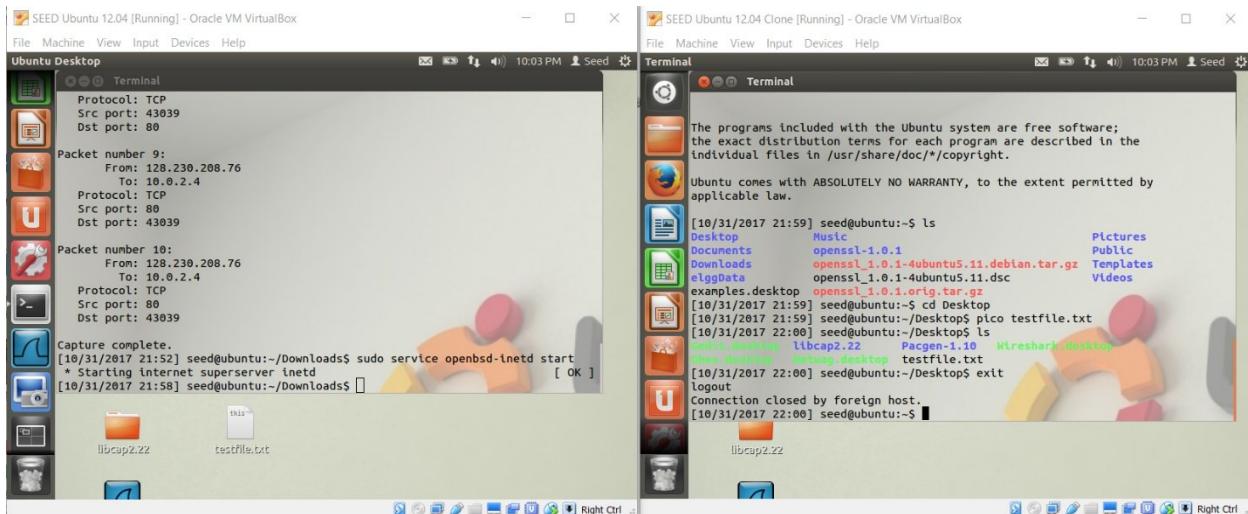
Packet number 8:
From: 10.0.2.4
To: 128.230.208.76
Protocol: TCP
Src port: 43039
Dst port: 80

Packet number 9:
From: 128.230.208.76
To: 10.0.2.4
Protocol: TCP
Src port: 80
Dst port: 43039

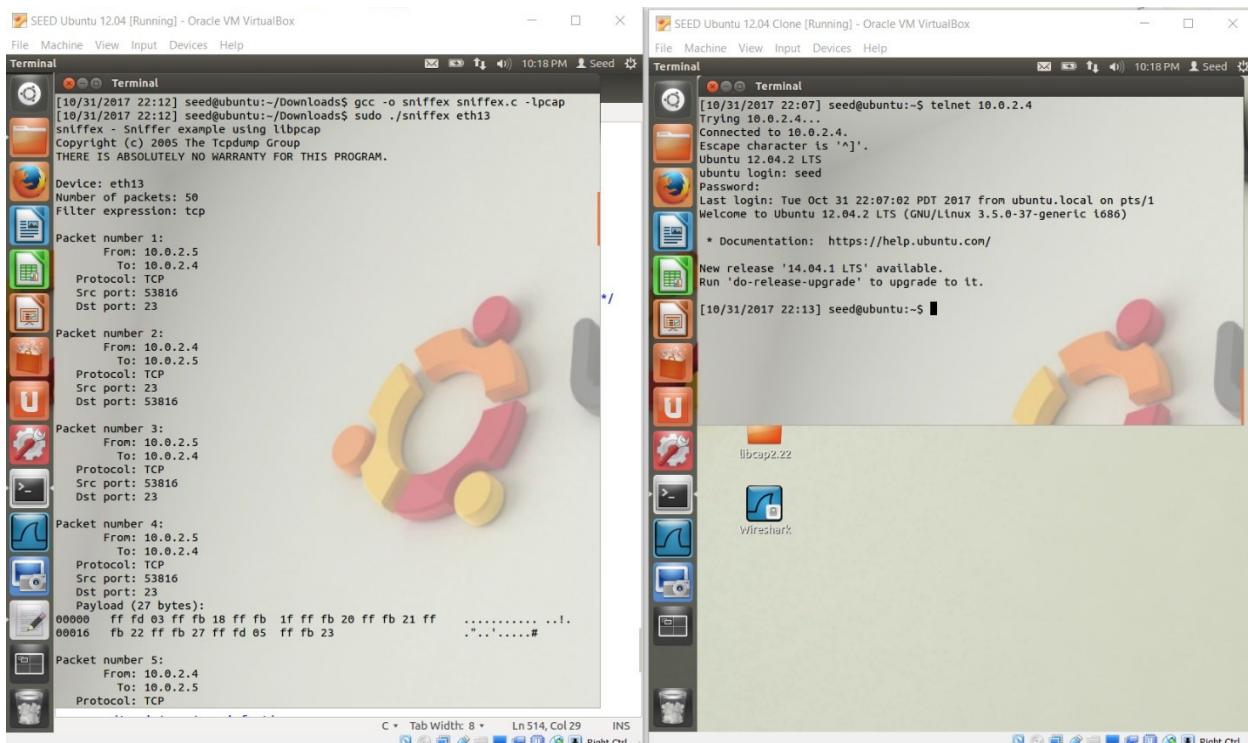
Packet number 10:
From: 128.230.208.76
To: 10.0.2.4
Protocol: TCP
Src port: 80
Dst port: 43039

Capture complete.
[10/31/2017 21:52] seed@ubuntu:~/Downloads\$

telnet remote file 1



Finding the password with sniffix



SEED Ubuntu 12.04 [Running] - Oracle VM VirtualBox

File Machine View Input Devices Help

Terminal

```
Terminal
Dst port: 53816
Payload (14 bytes):
00000 75 62 75 6e 74 75 20 6c 6f 67 69 6e 3a 20      ubuntu login:

Packet number 19:
    From: 10.0.2.5
        To: 10.0.2.4
    Protocol: TCP
    Src port: 53816
    Dst port: 23

Packet number 20:
    From: 10.0.2.5
        To: 10.0.2.4
    Protocol: TCP
    Src port: 53816
    Dst port: 23
    Payload (1 bytes):
00000 73

Packet number 21:
    From: 10.0.2.4
        To: 10.0.2.5
    Protocol: TCP
    Src port: 23
    Dst port: 53816
    Payload (1 bytes):
00000 73

Packet number 22:
    From: 10.0.2.5
        To: 10.0.2.4
    Protocol: TCP
    Src port: 53816
    Dst port: 23

Packet number 23:
    From: 10.0.2.5
        To: 10.0.2.4
    Protocol: TCP
    Src port: 53816
    Dst port: 23
    Payload (1 bytes):
00000 65
```



*/

e

C Tab Width: 8 Ln 514, Col 29 INS

Right Ctrl

SEED Ubuntu 12.04 [Running] - Oracle VM VirtualBox

File Machine View Input Devices Help

Terminal

```
Src port: 53816
Dst port: 23
Payload (1 bytes):
00000 65
e

Packet number 27:
From: 10.0.2.4
To: 10.0.2.5
Protocol: TCP
Src port: 23
Dst port: 53816
Payload (1 bytes):
00000 65
e

Packet number 28:
From: 10.0.2.5
To: 10.0.2.4
Protocol: TCP
Src port: 53816
Dst port: 23
*/
d

Packet number 29:
From: 10.0.2.5
To: 10.0.2.4
Protocol: TCP
Src port: 53816
Dst port: 23
Payload (1 bytes):
00000 64
d

Packet number 30:
From: 10.0.2.4
To: 10.0.2.5
Protocol: TCP
Src port: 23
Dst port: 53816
Payload (1 bytes):
00000 64
d

Packet number 31:
From: 10.0.2.5
To: 10.0.2.4
Protocol: TCP
Src port: 53816
Dst port: 23
d
```

C Tab Width: 8 Ln 514, Col 29 INS

Right Ctrl

SEED Ubuntu 12.04 [Running] - Oracle VM VirtualBox

File Machine View Input Devices Help

Terminal

```
Src port: 23
Dst port: 53816
Payload (10 bytes):
00000 50 61 73 73 77 6f 72 64 3a 20
                                         Password: *
```

```
Packet number 36:
    From: 10.0.2.5
    To: 10.0.2.4
    Protocol: TCP
    Src port: 53816
    Dst port: 23
```

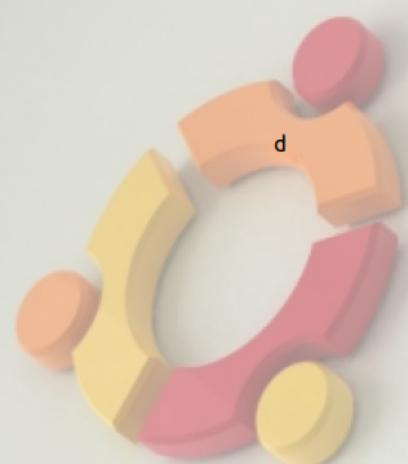
```
Packet number 37:
    From: 10.0.2.5
    To: 10.0.2.4
    Protocol: TCP
    Src port: 53816
    Dst port: 23
    Payload (1 bytes):
00000 64
```

```
Packet number 38:
    From: 10.0.2.4
    To: 10.0.2.5
    Protocol: TCP
    Src port: 23
    Dst port: 53816
```

```
Packet number 39:
    From: 10.0.2.5
    To: 10.0.2.4
    Protocol: TCP
    Src port: 53816
    Dst port: 23
    Payload (1 bytes):
00000 65
```

```
Packet number 40:
    From: 10.0.2.4
    To: 10.0.2.5
    Protocol: TCP
    Src port: 23
    Dst port: 53816
```

```
Packet number 41:
```



d

e

C Tab Width: 8 Ln 514, Col 29 INS

Right Ctrl

SEED Ubuntu 12.04 [Running] - Oracle VM VirtualBox

File Machine View Input Devices Help

Terminal

```
Payload (1 bytes):
00000 65

e

Packet number 42:
    From: 10.0.2.4
    To: 10.0.2.5
    Protocol: TCP
    Src port: 23
    Dst port: 53816

Packet number 43:
    From: 10.0.2.5
    To: 10.0.2.4
    Protocol: TCP
    Src port: 53816
    Dst port: 23
    Payload (1 bytes):
00000 73

*/s

Packet number 44:
    From: 10.0.2.4
    To: 10.0.2.5
    Protocol: TCP
    Src port: 23
    Dst port: 53816

Packet number 45:
    From: 10.0.2.5
    To: 10.0.2.4
    Protocol: TCP
    Src port: 53816
    Dst port: 23
    Payload (2 bytes):
00000 0d 00

...

```

...

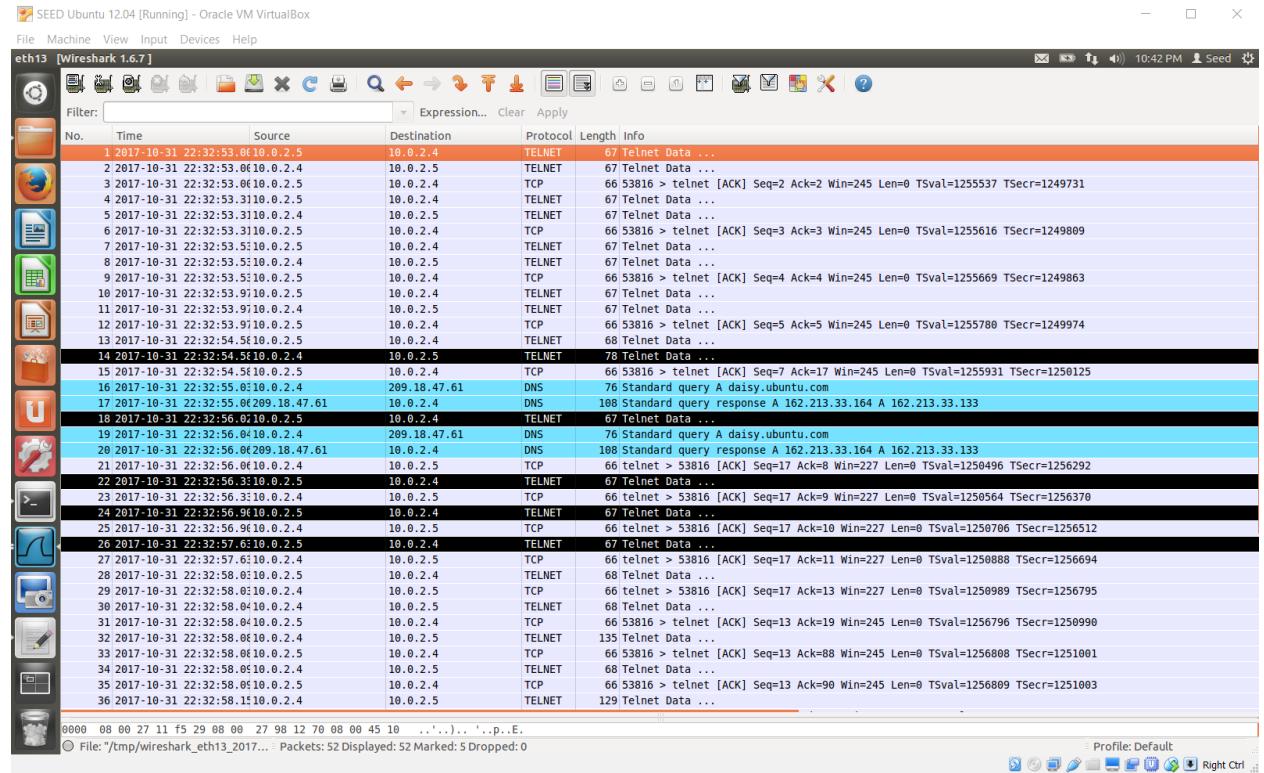
```
Packet number 46:
    From: 10.0.2.4
    To: 10.0.2.5
    Protocol: TCP
    Src port: 23
    Dst port: 53816

Packet number 47:
    From: 10.0.2.4
    To: 10.0.2.5
```

C Tab Width: 8 Ln 514, Col 29 INS

Right Ctrl

Wireshark (password found in marked packets)



Thoughts on Telnet:

Telnet is not secure because when using a program such as sniffex.c to sniff for TCP packets, data is presented in clear-text, meaning there is no encryption to hide what is being sent over the network, which raises a security issue.

Wireshark vs ssh (password not identifiable)

SEED Ubuntu 12.04 [Running] - Oracle VM VirtualBox

File Machine View Input Devices Help

eth13 [Wireshark 1.6.7]

Filter: Expression... Clear Apply

No.	Time	Source	Destination	Protocol	Length	Info
29	2017-11-02 09:22:43.32fe80::a00:27ff:fe11:ffff02::fb		224.0.0.251	MDNS	94	Standard query response FKR, cache flush ubuntu-2.local
30	2017-11-02 09:22:43.3210.0.2.4		224.0.0.251	MDNS	74	Standard query A ubuntu-2.local, "OM" question
31	2017-11-02 09:22:43.3210.0.2.5		224.0.0.251	MDNS	84	Standard query response A, cache flush 10.0.2.5
32	2017-11-02 09:22:43.3210.0.2.4		10.0.2.5	TCP	130	[TCP segment of a reassembled PDU]
33	2017-11-02 09:22:43.3210.0.2.5		10.0.2.4	TCP	66	59503 > ssh [ACK] Seq=1522 Ack=1450 Win=18560 Len=0 TStamp=182169
34	2017-11-02 09:22:44.3610.0.2.4		209.18.47.61	DNS	76	Standard query A daisy.ubuntu.com
35	2017-11-02 09:22:44.31209.18.47.61		10.0.2.4	DNS	108	Standard query response A 162.213.33.133 A 162.213.33.164
36	2017-11-02 09:22:49.9E10.0.2.5		10.0.2.4	TCP	210	[TCP segment of a reassembled PDU]
37	2017-11-02 09:22:49.9E10.0.2.4		10.0.2.5	TCP	66	ssh > 59503 [ACK] Seq=1452 Ack=1666 Win=19968 Len=0 TStamp=188705
38	2017-11-02 09:22:49.9E10.0.2.4		10.0.2.5	TCP	98	[TCP segment of a reassembled PDU]
39	2017-11-02 09:22:49.9E10.0.2.5		10.0.2.4	TCP	66	59503 > ssh [ACK] Seq=1666 Ack=1482 Win=18560 Len=0 TStamp=183833
40	2017-11-02 09:22:49.9E10.0.2.5	10.0.2.4		TCP	194	[TCP segment of a reassembled PDU]
41	2017-11-02 09:22:49.9E10.0.2.4	10.0.2.5		TCP	66	ssh > 59503 [ACK] Seq=1482 Ack=1794 Win=22464 Len=0 TStamp=188721
42	2017-11-02 09:22:50.7510.0.2.4		10.0.2.5	TCP	114	[TCP segment of a reassembled PDU]
43	2017-11-02 09:22:50.7510.0.2.5		10.0.2.4	TCP	514	[TCP segment of a reassembled PDU]
44	2017-11-02 09:22:50.7510.0.2.4		10.0.2.5	TCP	66	ssh > 59503 [ACK] Seq=1530 Ack=2242 Win=25024 Len=0 TStamp=188913
45	2017-11-02 09:22:50.7710.0.2.4		10.0.2.5	TCP	178	[TCP segment of a reassembled PDU]
46	2017-11-02 09:22:50.7710.0.2.4		10.0.2.5	TCP	370	[TCP segment of a reassembled PDU]
47	2017-11-02 09:22:50.7710.0.2.5		10.0.2.4	TCP	66	59503 > ssh [ACK] Seq=2242 Ack=1946 Win=20544 Len=0 TStamp=184031
48	2017-11-02 09:22:51.2410.0.2.4		10.0.2.5	TCP	146	[TCP segment of a reassembled PDU]
49	2017-11-02 09:22:51.2E10.0.2.5		10.0.2.4	TCP	66	59503 > ssh [ACK] Seq=2242 Ack=2026 Win=20544 Len=0 TStamp=184158

Frame 40: 194 bytes on wire (1552 bits), 194 bytes captured (1552 bits)
 Ethernet II, Src: CadmusCo_98:12:70 (08:00:27:98:12:70), Dst: CadmusCo_11:f5:29 (08:00:27:11:f5:29)
 Internet Protocol Version 4, Src: 10.0.2.5 (10.0.2.5), Dst: 10.0.2.4 (10.0.2.4)
 Transmission Control Protocol, Src Port: 59503 (59503), Dst Port: ssh (22), Seq: 1666, Ack: 1482, Len: 128

0020 02 04 e8 6f 00 16 16 20 1a 52 c5 c0 eb 32 80 18 ...0....R....2.
 0030 01 22 96 73 00 00 01 01 08 0a 00 02 ce 19 00 02 .".s....
 0040 e1 31 06 d4 1d 62 64 6f 24 91 5a ee 71 c7 a4 bc 1..bdo \$.Z.q...
 0050 69 f4 49 e2 97 3d 99 34 c2 76 54 79 1c 48 14 35 i.I.=.4 .Vty.H.5
 0060 96 fa be 1d b9 c8 b0 d3 b2 04 97 1d ce 11 53 60S`
 0070 af 3b 90 f0 f3 ee c8 a7 cd c3 ae 41 20 fb 66 d3 ;.....A.f.
 0080 17 79 89 5f 5a 40 a1 3c f4 df df 30 32 9f d1 63 .y. Z@.< ..02..c
 0090 61 c1 68 a5 f2 5a 36 94 3b 85 3f 05 ba 8f 3b 0c a.h.Z6. ;?;...;
 00a0 84 4d ad 90 f0 70 db ab f5 2f d0 96 85 07 10 a7 .M..p.. /.....
 00b0 37 ba cc cb 7b 27 93 30 57 95 9f 9b 97 a7 67 1f 7...{'.0 W....g.
 00c0 7e f4

File: "/tmp/wireshark_eth13_2017... Packets: 49 Displayed: 49 Marked: 0 Dropped: 0 Profile: Default