EXERCISE 1

```
phyhost$ simctl netapps-basic start

phyhost$ simctl netapps-basic get virt1 0
```

EX 1.1

```
telem@debian:~$ cat /etc/services | grep daytime daytime 13/tcp daytime 13/udp
```

EX 1.2

The port for WInfows/IOs should be the same

EX 1.3

root@virt1:~# ifconfig | grep HWaddr MAC: fe:fd:00:00:01:00 IP: 10.1.1.1/24

root@virt2:~# ifconfig | grep HWaddr MAC: fe:fd:00:00:02:00 IP: 10.1.1.2/24

EX 1.4

root@virt1:~# ifconfig eth0 192.168.0.1 root@virt2:~# ifconfig eth0 192.168.0.3

EX 1.5

root@virt2\$ ping -c 3 192.168.0.1

SImNet0

1 0.000000000	fe:fd:00:00:02:00	Broadcast	ARP	42 Who has 192.168.0.1? Tell 192.168.0.2
2 0.000114593	fe:fd:00:00:01:00	fe:fd:00:00:02:00	ARP	42 192.168.0.1 is at fe:fd:00:00:01:00
3 0.000154096	192.168.0.2	192.168.0.1	ICMP	98 Echo (ping) request id=0x0588, seq=1/25
4 0.000194210	192.168.0.1	192.168.0.2	ICMP	98 Echo (ping) reply id=0x0588, seq=1/25
5 1.009968954	192.168.0.2	192.168.0.1	ICMP	98 Echo (ping) request id=0x0588, seq=2/51
6 1.010109887	192.168.0.1	192.168.0.2	ICMP	98 Echo (ping) reply id=0x0588, seq=2/51
7 2.019665463	192.168.0.2	192.168.0.1	ICMP	98 Echo (ping) request id=0x0588, seq=3/76
8 2.019882206	192.168.0.1	192.168.0.2	ICMP	98 Echo (ping) reply id=0x0588, seq=3/76
9 5.015315819	fe:fd:00:00:01:00	fe:fd:00:00:02:00	ARP	42 Who has 192.168.0.2? Tell 192.168.0.1
10 5.015510315	fe:fd:00:00:02:00	fe:fd:00:00:01:00	ARP	42 192.168.0.2 is at fe:fd:00:00:02:00

EX 1.6

lo is used for loopback interface. It doesnt have a MAC cause it doesn't need a physical address, the interface belong to the inner machine network configuration, and it is used to access the network services that are running on the host.

EX 1.7

root@virt1:~# ifconfig eth0 10.1.1.1 root@virt2:~# ifconfig eth0 10.1.1.2

EXERCISE 2

EX 2.1

```
Active Internet connections (only servers)
Proto Recv-Q Send-Q Local Address
                                               Foreign Address
                                                                          State
                                                                                        PID/Program nam
                                                                                       804/portmap
1383/inetd
                  0 0.0.0.0:111
                                               0.0.0.0:*
                                                                          LISTEN
                0 0.0.0.0:113
                                               0.0.0:*
                                                                          LISTEN
tcp
                                               0.0.0.0:*
                  0 0.0.0.0:32884
                                                                          LISTEN
                                                                                       1383/inetd
1412/sshd
                   0 0.0.0.0:21
                                                0.0.0.0:*
                                                                          LISTEN
                   0 0.0.0.0:22
                                               0.0.0.0:*
                                                                          LISTEN
tcp
                   0 127.0.0.1:25
                                                0.0.0.0:*
                                                                          LISTEN
                                                                                        1341/exim4
tcp
                                                                                       979/apache2
1412/sshd
tcp6
                                                                          LISTEN
                                                                          LISTEN
tcp6
                                                                          LISTEN
                                                                                        1341/exim4
cp6
```

```
oot@virt1:~# cat /etc/inetd.con1
 /etc/inetd.conf: see inetd(8) for further informations.
 Internet superserver configuration database
Lines starting with "#:LABEL:" or "#<off>#" should not
 be changed unless you know what you are doing!
 If you want to disable an entry so it isn't touched during
 package updates just comment it out with a single '#' character.
 Packages should modify this file by using update-inetd(8)
 <service name> <sock type>  <flags> <user> <server path> <args>
:INTERNAL: Internal services
discard
                                      nowait root
                                                      internal
discard
                      dgram udp
                                              root
                                                      internal
daytime
                       stream tcp
                                      nowait
                                              root
                                                      internal
#time
                               nowait root
              stream tcp
                                              internal
:STANDARD: These are standard services.
              stream tcp
                             nowait root
                                              /usr/sbin/tcpd /usr/sbin/in.ftpd
tp
telnet
                                              /usr/sbin/tcpd /usr/sbin/in.telnetd
               stream tcp
                              nowait root
:BSD: Shell, login, exec and talk are BSD protocols.
:MAIL: Mail, news and uucp services.
::INFO: Info services
                               wait
                                       identd /usr/sbin/identd
                                                                      identd
ident
               stream tcp
:BOOT: TFTP service is provided primarily for booting. Most sites
       run this only on machines acting as "boot servers."
:RPC: RPC based services
:HAM-RADIO: amateur-radio services
:OTHER: Other services
```

EX 2.2

root@virt1:~# nano /etc/inetd.conf -> Descomment daytime root@virt1:~# /etc/init.d/openbsd-inetd restart -> Restart super-daemon The port of daytime (13) now is listening:

```
root@virt1:/# netstat -tnlp
                  0 0.0.0.0:13
                                              0.0.0.0:*
                                                                       LISTEN
                                                                                    1551/inetd
                  0 0.0.0.0:113
                                              0.0.0.0:*
                                                                       LISTEN
                                                                                    1551/inetd
tcp
                                              0.0.0.0:*
ср
                  0 127.0.0.1:25
                                                                       LISTEN
                                                                                    1341/exim4
cp6
                                                                                    1341/exim4
```

root@virt2:~# nc 10.1.1.1 13

EX 2.3

root@virt1:~# service ssh stop

EX 2.4

root@virt1:~# nano /etc/ssh/sshd_config

root@virt1:~# service ssh start

EXERCISE 3

EX 3.1

```
virt1.0$ nc -l -p 12345
```

This command starts netcat in mode server and in port 12345.

```
virt2.0$ nc 10.1.1.1 12345
```

Or else this one starts netcat as client in port 12345.

SImNet0

INC	o. IIme	Source	Destination	Profocol	Length into
	1 0.000000000	10.1.1.2	10.1.1.1	TCP	74 35024 → 12345 [SYN] Seq=0 Win=14600 Len=
	2 0.000065517	10.1.1.1	10.1.1.2	TCP	74 12345 → 35024 [SYN, ACK] Seq=0 Ack=1 Wir
	3 0.000104457	10.1.1.2	10.1.1.1	TCP	66 35024 → 12345 [ACK] Seq=1 Ack=1 Win=1460
	4 4.944815578	fe:fd:00:00:02:00	fe:fd:00:00:01:00	ARP	42 Who has 10.1.1.1? Tell 10.1.1.2
	5 4.944910957	fe:fd:00:00:01:00	fe:fd:00:00:02:00	ARP	42 10.1.1.1 is at fe:fd:00:00:01:00
	6 9.120048514	10.1.1.2	10.1.1.1	TCP	72 35024 → 12345 [PSH, ACK] Seq=1 Ack=1 Wir
	7 9.120094849	10.1.1.1	10.1.1.2	TCP	66 12345 → 35024 [ACK] Seq=1 Ack=7 Win=1448
	8 13.194084338	10.1.1.1	10.1.1.2	TCP	70 12345 → 35024 [PSH, ACK] Seq=1 Ack=7 Wir
	9 13.194170098	10.1.1.2	10.1.1.1	TCP	66 35024 → 12345 [ACK] Seq=7 Ack=5 Win=1460
	10 14.946026128	10.1.1.1	10.1.1.2	TCP	70 12345 → 35024 [PSH, ACK] Seq=5 Ack=7 Wir
	11 14.946080341	10.1.1.2	10.1.1.1	TCP	66 35024 → 12345 [ACK] Seq=7 Ack=9 Win=1460
	12 19.256278995	10.1.1.2	10.1.1.1	TCP	72 35024 → 12345 [PSH, ACK] Seg=7 Ack=9 Wir
	13 19.256322908	10.1.1.1	10.1.1.2	TCP	66 12345 → 35024 [ACK] Seq=9 Ack=13 Win=144
	14 55.957132999	10.1.1.1	10.1.1.2	TCP	66 12345 → 35024 [FIN, ACK] Seq=9 Ack=13 Wi
	15 55.957408078	10.1.1.2	10.1.1.1	TCP	66 35024 → 12345 [FIN, ACK] Seq=13 Ack=10 W
	16 55.957443357	10.1.1.1	10.1.1.2	TCP	66 12345 → 35024 [ACK] Seq=10 Ack=14 Win=14
	17 60.965615791	fe:fd:00:00:01:00	fe:fd:00:00:02:00	ARP	42 Who has 10.1.1.2? Tell 10.1.1.1
	18 60.965670051	fe:fd:00:00:02:00	fe:fd:00:00:01:00	ARP	42 10.1.1.2 is at fe:fd:00:00:02:00

EX 3.2

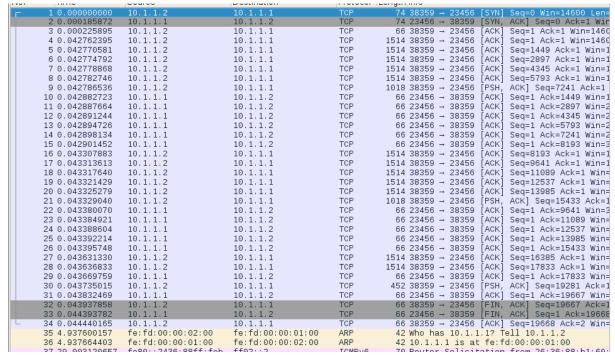
root@virt1:~# nc -l -p 23456

root@virt2:~# cat /etc/services | nc 10.1.1.1 23456 -q0

virt2-> SYN -> virt1 virt1->SYN+ACK->virt2 virt2-> ACK->virt1

					-		
┌ 1 0.0006				TCP	74 38356 →		SYN] Seq=0 Win=14600 Len=
2 0.0000				TCP	74 23456 →		SYN, ACK] Seq=0 Ack=1 Wir
3 0.0001				TCP	66 38356 →		ACK] Seq=1 Ack=1 Win=1460
4 0.0443					514 38356 →		ACK] Seq=1 Ack=1 Win=1460
5 0.0443					514 38356 →		ACK] Seq=1449 Ack=1 Win=1
6 0.0443					514 38356 →		ACK] Seq=2897 Ack=1 Win=1
7 0.0443					514 38356 →		
8 0.0443							ACK] Seq=5793 Ack=1 Win=1
9 0.0443							PSH, ACK] Seq=7241 Ack=1
10 0.0444				TCP			ACK] Seq=1 Ack=1449 Win=1
11 0.0444				TCP	66 23456 →		ACK] Seq=1 Ack=2897 Win=2
12 0.0444				TCP	66 23456 →		ACK] Seq=1 Ack=4345 Win=2
13 0.0444				TCP	66 23456 →		ACK] Seq=1 Ack=5793 Win=2
14 0.0444				TCP	66 23456 →		ACK] Seq=1 Ack=7241 Win=2
15 0.0444				TCP	66 23456 →		ACK] Seq=1 Ack=8193 Win=3
16 0.0448					514 38356 →		ACK] Seq=8193 Ack=1 Win=1
17 0.0449					514 38356 →		ACK] Seq=9641 Ack=1 Win=1
18 0.0449	905951 10.3	1.1.2 10.			514 38356 →	23456 [ACK] Seq=11089 Ack=1 Win=
19 0.0449		1.1.2 10.			514 38356 →	23456 [ACK] Seq=12537 Ack=1 Win=
20 0.0449	913630 10.:	1.1.2 10.	1.1.1	TCP 1	514 38356 →	23456 [ACK] Seq=13985 Ack=1 Win=
21 0.0449					018 38356 →	23456 [PSH, ACK] Seq=15433 Ack=1
22 0.0449	969673 10.:	1.1.1 10.		TCP	66 23456 →	38356 [ACK] Seq=1 Ack=9641 Win=3
23 0.0449	974429 10.:	1.1.1 10.	1.1.2	TCP	66 23456 →	38356 [ACK] Seq=1 Ack=11089 Win=
24 0.0449				TCP	66 23456 →	38356 [ACK] Seq=1 Ack=12537 Win=
25 0.0449				TCP	66 23456 →	38356 [ACK] Seq=1 Ack=13985 Win=
26 0.0449	985322 10.3	1.1.1 10.	1.1.2	TCP	66 23456 →	38356 [ACK] Seq=1 Ack=15433 Win=
27 0.0449	988860 10.3	1.1.1 10.	1.1.2	TCP	66 23456 →	38356 [ACK] Seq=1 Ack=16385 Win=
28 0.0472	237821 10.3	1.1.2 10.	1.1.1	TCP 1	514 38356 →	23456 [ACK] Seq=16385 Ack=1 Win=
29 0.0472	243292 10.3	1.1.2 10.	1.1.1	TCP 1	514 38356 →	23456 [ACK] Seq=17833 Ack=1 Win=
30 0.0472	246988 10.3	1.1.2 10.	1.1.1	TCP			PSH, ACK] Seq=19281 Ack=1
31 0.0472	285713 10.3	1.1.2 10.	1.1.1	TCP	66 38356 →	23456 [FIN, ACK] Seq=19667 Ack=1
32 0.0516	672813 10.1	1.1.1 10.	1.1.2	TCP	66 23456 →	38356 [ACK] Seq=1 Ack=17833 Win=
33 0.0518	358493 10.3	1.1.1 10.	1.1.2	TCP	66 23456 →	38356 [ACK] Seq=1 Ack=19668 Win=
34 0.0685	512419 10.:	1.1.1 10.	1.1.2	TCP	66 23456 →	38356 [FIN, ACK] Seq=1 Ack=19668
35 0.0685	79514 10.:	1.1.2 10.	1.1.1	TCP	66 38356 →	23456 [.	ACK] Seq=19668 Ack=2 Win=
36 4.9328	326069 fe:1	fd:00:00:02:00 fe:	fd:00:00:01:00	ARP	42 Who has	10.1.1.	1? Tell 10.1.1.2
37 4.9329	902744 fe:	fd:00:00:01:00 fe:	fd:00:00:02:00	ARP	42 10.1.1.1	l is at	fe:fd:00:00:01:00

root@virt1:~# nc -l -p 23456 > file.txt root@virt2:~# cat /etc/services | nc 10.1.1.1 23456 -q0 > file.txt



EX 3.3 root@virt1:~# nc -I -p 23456 -u > file.txt root@virt2:~# cat /etc/services | nc 10.1.1.1 23456 -u -q0 > file.txt

140.	THITIC	Jource	Destination	11000001	Longer
	1 0.000000000	10.1.1.2	10.1.1.1	IPv4	1514 Fragmented IP protocol (proto=UDP 17, o
	2 0.000011106	10.1.1.2	10.1.1.1	IPv4	1514 Fragmented IP protocol (proto=UDP 17, o
	3 0.000016476	10.1.1.2	10.1.1.1	IPv4	1514 Fragmented IP protocol (proto=UDP 17, o
	4 0.000021465	10.1.1.2	10.1.1.1	IPv4	1514 Fragmented IP protocol (proto=UDP 17, o
	5 0.000026547	10.1.1.2	10.1.1.1	IPv4	1514 Fragmented IP protocol (proto=UDP 17, o
	6 0.000031192	10.1.1.2	10.1.1.1	UDP	834 52622 → 23456 Len=8192
	7 0.000654651	10.1.1.2	10.1.1.1	IPv4	1514 Fragmented IP protocol (proto=UDP 17, o
	8 0.000662578	10.1.1.2	10.1.1.1	IPv4	1514 Fragmented IP protocol (proto=UDP 17, o
	9 0.000667318	10.1.1.2	10.1.1.1	IPv4	1514 Fragmented IP protocol (proto=UDP 17, o
	10 0.000671914	10.1.1.2	10.1.1.1	IPv4	1514 Fragmented IP protocol (proto=UDP 17, o
	11 0.000692884	10.1.1.2	10.1.1.1	IPv4	1514 Fragmented IP protocol (proto=UDP 17, o
	12 0.000697332	10.1.1.2	10.1.1.1	UDP	834 52622 → 23456 Len=8192
	13 0.000915232	10.1.1.2	10.1.1.1	IPv4	1514 Fragmented IP protocol (proto=UDP 17, o
	14 0.000922025	10.1.1.2	10.1.1.1	IPv4	1514 Fragmented IP protocol (proto=UDP 17, o
	15 0.000927060	10.1.1.2	10.1.1.1	UDP	364 52622 → 23456 Len=3282
	16 4.853393572	fe:fd:00:00:02:00	fe:fd:00:00:01:00	ARP	42 Who has 10.1.1.1? Tell 10.1.1.2
	17 4.853467142	fe:fd:00:00:01:00	fe:fd:00:00:02:00	ARP	42 10.1.1.1 is at fe:fd:00:00:01:00

Main diff:

It is not needed ACK,

UDP uses all Bandwidth during all transmission

EX 3.4

host:~# sudo ifconfig SimNet0 10.1.1.3/24

virt1:~# ping -c1 10.1.1.3 -> It works!

host:~# date | nc.traditional -I -p 12345

virt1:~# nc 10.1.1.3 12345

root@virt1:~# nc 10.1.1.3 12345 Fri Mar 12 12:49:43 CET 2021

The service gives the date when the connection with the server takes place, though the client connects to the server later.

EX 3.5

root@virt1:~# df -h | nc -l -p 22333 root@virt2:~# nc 10.1.1.1 22333

EXERCISE 4

We need to create a file with writing and exec permissions.

New script /root/diskfree.sh:

#!/bin/bash

df -h

virt1:~# chmod u+x diskfree.sh

virt1:~# /etc/init.d/openbsd-inetd start

virt1:~# nano /etc/inetd.conf

Add: diskfree stream tcp nowait root /root/diskfree.sh

virt1:~# nano /etc/services Add diskfree 22333/tcp

virt1:~# /etc/init.d/openbsd-inetd restart

```
oot@virt2:~# nc 10.1.1.1 22333
                       Size
                             Used Avail Use% Montado en
5.ficheros
/dev/ubda
                       2,0G
                              1,6G
                                    385M
                                          81% /
                                            0% /lib/init/rw
                        30M
                                 0
                                     30M
tmpfs
                                            1% /dev
                        10M
                                     10M
udev
                               16K
tmpfs
                        30M
                                 0
                                     30M
                                            0% /dev/shm
                             1,5M
                                     28M
tmpfs
                        30M
                                            5% /tmp
                                     30M
                                            0% /var/tmp
                        30M
tmpfs
                                 0
/dev/ubdb
                       352K
                              352K
                                       0 100% /mnt/vnuml
                        37G
                             8,2G
                                     27G
                                           24% /mnt/hostfs
none
```

La diferència és que el nestat s'utilitza quan es realitzen poques connexions a un port per un servei determinar, en cquest cas s'assigna temporalment un port al servei i un cop finalitzat es tanca. En canvi, amb el servei inetd s'utilitza per quan es realitzen moltes peticions d'un servei concret, en aquest cas, es dedica un port exclusiu per al servei, fent que sempre estigui escoltant.

virt1:~# /etc/init.d/openbsd-inetd stop

EXERCISE 5

EX 5.1

```
virt1.0# /etc/init.d/apache2 start 2> /dev/null
```

Apache listens on port 80.

virt1:~# netstat -tnlp | grep 80

```
root@virt1:~# /etc/init.d/apache2 start 2> /dev/null
Starting web server: apache2httpd (pid 1093) already running
.
root@virt1:~# netstat -tnlp | grep 80
tcp6 0 0 :::80 :::* LISTEN 1093/apache2
```

Debian-based distros store the Apache 2.0 configuration files in the directory /etc/apache2. The PID is 1093.

npi

EX 5.2

Edit file /var/www/index.html:

\$ lynx http://10.1.1.1

```
GNU nano 2.2.4 Fichero: index.html
<html><body><h1>helou klk mis panas!</h1>
This is the default web page for this server.
The web server software is running but no content has been added, yet.
</body></html>
```



EX 5.3

host:~\$ sudo ifconfig SimNet0 10.1.1.3/24 host:~\$ /usr/bin/firefox http://10.1.1.1

Espectacular

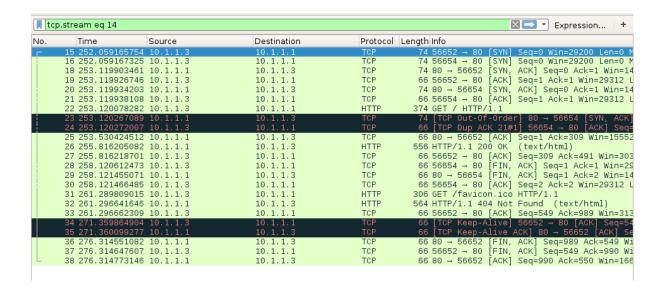


helou klk mis panas!

This is the default web page for this server.

The web server software is running but no content has been added, yet.

SimNet0:



virt1:~# /etc/init.d/apache2 stop

EXERCISE 6

EX 6.1

```
oot@virt2:~# telnet 10.1.1.1
rying 10.1.1.1...
elnet: Unable to connect to remote host: Connection refused
                                             Destination
        ııme
                                                                  Protocol Length Into
                       Source
                                                                               42 Who has 10.1.1.1? Tell 10.1.1.2
42 10.1.1.1 is at fe:fd:00:00:01:00
                       fe:fd:00:00:02:00
fe:fd:00:00:01:00
       2 0.000122982
                                             fe:fd:00:00:02:00
                                                                   ARF
                                                                               74 55532 - 23 [SYN] Seq=0 Win=14600 Len=0 N
54 23 - 55532 [RST, ACK] Seq=1 Ack=1 Win=0
       3 0.000165151
                                                                               42 10.1.1.2 is at fe:fd:00:00:02:00
       6 5.013658197 fe:fd:00:00:02:00 fe:fd:00:00:01:00
                                                                  ARP
```

Unable cause we need to activate the server.

virt1:~# nano /etc/inetd.conf -> telnet

virt1:~# /etc/init.d/openbsd-inetd reload

```
virt1 login: ^CConnection closed by foreign host.
root@virt2:~# telnet 10.1.1.1
Trying 10.1.1.1...
Connected to 10.1.1.1.
Escape character is '^]'.
Debian GNU/Linux 6.0
virt1 login:
```

virt1:~# tail -f /var/log/daemon.log

```
Mar 13 20:42:48 vnx in.telnetd[1564]: connect from 10.1.1.2 (10.1.1.2)

Mar 13 20:42:48 vnx telnetd[1564]: doit: getnameinfo: Success

Mar 13 20:42:48 vnx telnetd[1564]: doit: getaddrinfo: Name or service not known
```

EX 6.2

virt1:~# nano /etc/securetty

With netstat we see the ports listening virt2 are diff and the commons use diff PIDs.

_		etstat -tnlp			
		connections (only serv	ers)		
Proto R	lecv-Q Se	nd-Q Local Address	Foreign Address	State	PID/Program name
tcp	Θ	0 0.0.0.0:111	0.0.0.0:*	LISTEN	712/portmap
tcp	0	0 0.0.0.0:113	0.0.0.0:*	LISTEN	1299/inetd
tcp	0	0 0.0.0.0:47060	0.0.0.0:*	LISTEN	733/rpc.statd
tcp	0	0 0.0.0.0:21	0.0.0.0:*	LISTEN	1299/inetd
tcp	0	0 0.0.0.0:22	0.0.0.0:*	LISTEN	1328/sshd
tcp	0	0 0.0.0.0:23	0.0.0.0:*	LISTEN	1299/inetd
tcp	0	0 127.0.0.1:25	0.0.0.0:*	LISTEN	1257/exim4
tcp6	0	0 :::80		LISTEN	895/apache2
tcp6	0	0 :::22		LISTEN	1328/sshd
tcp6	0	0 ::1:25		LISTEN	1257/exim4
root@vi	.rt2:~# n	etstat -tnlp grep ine	td		
tcp	0	0 0.0.0.0:113	0.0.0.0:*	LISTEN	1299/inetd
tcp	0	0 0.0.0.0:21	0.0.0.0:*	LISTEN	1299/inetd
tcp	0	0 0.0.0.0:23	0.0.0.0:*	LISTEN	1299/inetd

EX 6.3

virt2:~# telnet 10.1.1.1

login: root password: xxxx

		netstat -tlnp								
	Active Internet connections (only servers)									
Proto R	tecv-Q Se	end-Q Local Address	Foreign Address	State	PID/Program name					
tcp	0	0 0.0.0.0:43566	0.0.0.0:*	LISTEN	801/rpc.statd					
tcp	0	0 0.0.0.0:111	0.0.0.0:*	LISTEN	785/portmap					
tcp	0	0 0.0.0.0:113	0.0.0.0:*	LISTEN	1601/inetd					
tcp	0	0 0.0.0.0:21	0.0.0.0:*	LISTEN	1601/inetd					
tcp	0	0 0.0.0.0:22	0.0.0.0:*	LISTEN	1396/sshd					
tcp	0	0 0.0.0.0:23	0.0.0.0:*	LISTEN	1601/inetd					
tcp	0	0 127.0.0.1:25	0.0.0.0:*	LISTEN	1325/exim4					
tcp6	0	0 :::22		LISTEN	1396/sshd					
tcp6	0	0 ::1:25		LISTEN	1325/exim4					

EX 6.4

```
GNU nano 2.2.4

Fichero: file.txt

hei im mireia from a remote connection in virt2 to virt1.

Hope u see this file.

kisses

xxxx
```

Done;)

EX 6.5

The data is tal cual, not encrypted, INCLUDING PASSWORDS. Such a rubbish the security.

EX 6.6

```
root@virt2:~# ssh 10.1.1.1

The authenticity of host '10.1.1.1 (10.1.1.1)' can't be established.

RSA key fingerprint is 6c:f3:c4:44:e8:1c:fd:3c:93:e5:9d:cc:50:58:cb:11.

Are you sure you want to continue connecting (yes/no)? yes

Warning: Permanently added '10.1.1.1' (RSA) to the list of known hosts.

root@10.1.1.1's password:

Linux vnx 3.3.8 #1 Sun Nov 6 04:59:42 MST 2016 i686

The programs included with the Debian GNU/Linux system are free software;
the exact distribution terms for each program are described in the
individual files in /usr/share/doc/*/copyright.

Debian GNU/Linux comes with ABSOLUTELY NO WARRANTY, to the extent
permitted by applicable law.

Last login: Sat Mar 13 21:02:05 2021
root@virt1:~#
```

27 10.892880798 28 10.934250510 29 10.934343922 30 10.938916047	10.1.1.1 10.1.1.2	10.1.1.1 10.1.1.2 10.1.1.1	SSHv2 SSHv2 TCP SSHv2	210 Client: Encrypted packet (len=144) 98 Server: Encrypted packet (len=32) 66 44484 → 22 [ACK] Seq=1330 Ack=1842 Win 194 Client: Encrypted packet (len=128)
31 10.978307268 32 10.979175235	10.1.1.1	10.1.1.2 10.1.1.1	SSHv2 SSHv2	114 Server: Encrypted packet (len=48) 514 Client: Encrypted packet (len=448)
33 10.993635457	10.1.1.1	10.1.1.2	SSHv2 SSHv2	178 Server: Encrypted packet (len=112) 162 Server: Encrypted packet (len=96)
35 11.029821146		10.1.1.1	TCP	66 44484 → 22 [ACK] Seq=1906 Ack=2098 Win

The info is encrypted.

EXERCISE 7

EX 7.1

```
Connected to 10.1.1.1.

220 virt1 FTP server (Version 6.4/OpenBSD/Linux-ftpd-0.17) ready.

Name (10.1.1.1:root): root

331 Password required for root.

Password:

530 Login incorrect.

Login failed.

ftp>
```

SimNet0:

_					
VC	. Iime	Source	Destination	Protocol	Length Info
_	1 0.000000000	10.1.1.2	10.1.1.1	TCP	74 52971 → 21 [SYN] Seq=0 Win=14600 Len=0 M
	2 0.000063880	10.1.1.1	10.1.1.2	TCP	74 21 → 52971 [SYN, ACK] Seq=0 Ack=1 Win=14
	3 0.000109936	10.1.1.2	10.1.1.1	TCP	66 52971 → 21 [ACK] Seq=1 Ack=1 Win=14608 L
	4 0.149404976	10.1.1.1	10.1.1.2	FTP	133 Response: 220 virt1 FTP server (Version
	5 0.149546121	10.1.1.2	10.1.1.1	TCP	66 52971 → 21 [ACK] Seq=1 Ack=68 Win=14608
	8 8.284565037	10.1.1.2	10.1.1.1	FTP	77 Request: USER root
	9 8.284775430	10.1.1.1	10.1.1.2	TCP	66 21 → 52971 [ACK] Seq=68 Ack=12 Win=14480
	10 8.331012388	10.1.1.1	10.1.1.2	FTP	99 Response: 331 Password required for root
	11 8.331128407	10.1.1.2	10.1.1.1	TCP	66 52971 → 21 [ACK] Seq=12 Ack=101 Win=1460
	12 11.876224311	10.1.1.2	10.1.1.1	FTP	77 Request: PASS xxxx
	13 11.931798432	10.1.1.1	10.1.1.2	TCP	66 21 → 52971 [ACK] Seq=101 Ack=23 Win=1448
	14 13.749301403	10.1.1.1	10.1.1.2	FTP	88 Response: 530 Login incorrect.
	15 13.749414044	10.1.1.2	10.1.1.1	TCP	66 52971 → 21 [ACK] Seq=23 Ack=123 Win=1460
	16 13.750271055	10.1.1.2	10.1.1.1	FTP	72 Request: SYST
	17 13.750414498	10.1.1.1	10.1.1.2	TCP	66 21 → 52971 [ACK] Seq=123 Ack=29 Win=1448
	18 13.750668472	10.1.1.1	10.1.1.2	FTP	104 Response: 530 Please login with USER and
L	19 13.784448400	10.1.1.2	10.1.1.1	TCP	66 52971 → 21 [ACK] Seq=29 Ack=161 Win=1460

After login, virt2 sends a SYST request and we receive an 503 error ("Please login with USER and ...")

EX 7.2

virt1.0:~# vi /etc/ftpusers → comentar amb un # el root (és la màquina que volem entrar)

EX 7.3 virt2.0:~# ftp 10.1.1.1

```
oot@virt2:~# ftp 10.1.1.1
Connected to 10.1.1.1.
220 virt1 FTP server (Version 6.4/OpenBSD/Linux-ftpd-0.17) ready.
Name (10.1.1.1:root): root
331 Password required for root.
Password:
230- Linux vnx 3.3.8 #1 Sun Nov 6 04:59:42 MST 2016 i686
230-
230- The programs included with the Debian GNU/Linux system are free software;
230- the exact distribution terms for each program are described in the
230- individual files in /usr/share/doc/*/copyright.
230-
230- Debian GNU/Linux comes with ABSOLUTELY NO WARRANTY, to the extent
230- permitted by applicable law.
230 User root logged in.
Remote system type is UNIX.
```

SimNet0:

	r 3 14.007629803	10.1.1.2	10.1.1.1	TCP	74 52972 → 21 [SYN] Seq=0 Win=14600 Len=0 M
- 1	4 14.007694537	10.1.1.1	10.1.1.2	TCP	74 21 → 52972 [SYN, ACK] Seq=0 Ack=1 Win=14
	5 14.007746523	10.1.1.2	10.1.1.1	TCP	66 52972 → 21 [ACK] Seq=1 Ack=1 Win=14608 L
	6 14.132785403	10.1.1.1	10.1.1.2	FTP	133 Response: 220 virt1 FTP server (Version
	7 14.133070348	10.1.1.2	10.1.1.1	TCP	66 52972 → 21 [ACK] Seq=1 Ack=68 Win=14608
	8 17.468086095	10.1.1.2	10.1.1.1	FTP	77 Request: USER root
	9 17.468236392	10.1.1.1	10.1.1.2	TCP	66 21 → 52972 [ACK] Seq=68 Ack=12 Win=14480
	10 17.488568151	10.1.1.1	10.1.1.2	FTP	99 Response: 331 Password required for root
	11 17.488685605	10.1.1.2	10.1.1.1	TCP	66 52972 → 21 [ACK] Seq=12 Ack=101 Win=1460
	12 20.301656097	10.1.1.2	10.1.1.1	FTP	77 Request: PASS xxxx
	13 20.351547243	10.1.1.1	10.1.1.2	TCP	66 21 → 52972 [ACK] Seq=101 Ack=23 Win=1448
	14 20.352302245	10.1.1.1	10.1.1.2	FTP	124 Response: 230- Linux vnx 3.3.8 #1 Sun No
	15 20.352367964	10.1.1.2	10.1.1.1	TCP	66 52972 → 21 [ACK] Seq=23 Ack=159 Win=1460
	16 20.352534194	10.1.1.1	10.1.1.2	FTP	73 Response: 230-
	17 20.352578974	10.1.1.2	10.1.1.1	TCP	66 52972 → 21 [ACK] Seq=23 Ack=166 Win=1460
	18 20.352688336	10.1.1.1	10.1.1.2	FTP	146 Response: 230- The programs included wit
	19 20.352734152	10.1.1.2	10.1.1.1	TCP	66 52972 → 21 [ACK] Seq=23 Ack=246 Win=1460
	20 20.352844408	10.1.1.1	10.1.1.2	FTP	139 Response: 230- the exact distribution te
	21 20.352889719	10.1.1.2	10.1.1.1	TCP	66 52972 → 21 [ACK] Seq=23 Ack=319 Win=1460
	22 20.353023165	10.1.1.1	10.1.1.2	FTP	120 Response: 230- individual files in /usr/
	23 20.353069900	10.1.1.2	10.1.1.1	TCP	66 52972 → 21 [ACK] Seq=23 Ack=373 Win=1460
	24 20.353178532		10.1.1.2	FTP	73 Response: 230-
	25 20.353222565	10.1.1.2	10.1.1.1	TCP	66 52972 → 21 [ACK] Seq=23 Ack=380 Win=1460
	26 20.353328145	10.1.1.1	10.1.1.2	FTP	138 Response: 230- Debian GNU/Linux comes wi
	27 20.353373102	10.1.1.2	10.1.1.1	TCP	66 52972 → 21 [ACK] Seq=23 Ack=452 Win=1460
	28 20.353481420	10.1.1.1	10.1.1.2	FTP	101 Response: 230- permitted by applicable l
	29 20.353525584	10.1.1.2	10.1.1.1	TCP	66 52972 → 21 [ACK] Seq=23 Ack=487 Win=1460
	30 20.353737070	10.1.1.1	10.1.1.2	FTP	92 Response: 230 User root logged in.
	31 20.353785958	10.1.1.2	10.1.1.1	TCP	66 52972 → 21 [ACK] Seq=23 Ack=513 Win=1460
	32 20.354071671	10.1.1.2	10.1.1.1	FTP	72 Request: SYST
	33 20.354107262		10.1.1.2	TCP	66 21 → 52972 [ACK] Seq=513 Ack=29 Win=1448
	34 20.354224531	10.1.1.1	10.1.1.2	FTP	93 Response: 215 UNIX Type: L8 (Linux)
	L 35 20.387155785	10.1.1.2	10.1.1.1	TCP	66 52972 → 21 [ACK] Seq=29 Ack=540 Win=1460

```
virt2.1:~# netstat -tlnp | grep 21 (ftp) -> PID= 1299 virt1:~# netstat -tlnp | grep 21 (ftp) -> PID= 1601 virt2.1:~# lsof -a -p 1299 -d0-10 -> 4u virt1:~# lsof -a -p 1601 -d0-10 -> 4u
```

```
0 0.0.0.0:21
                                              0.0.0.0:*
                                                                       LISTEN
                                                                                     1299/inetd
oot@virt2:~# lsof -a -p 1299 -d0-10
OMMAND PID USER
                         TYPE DEVICE SIZE/OFF NODE NAME
                    FD
inetd
       1299 root
                     0u
                                            0t0 41 /dev/null
netd
                          CHR
                                            0t0 41 /dev/null
                                           0t0 41 /dev/null
0t0 TCP *:ftp (LISTEN)
netd
                     2u
                          CHR
       1299 root
                         IPv4
netd
netd
       1299 root
                         IPv4
                                 2280
                                            0t0 TCP *:telnet (LISTEN)
                                                 TCP *:auth (LISTEN)
       1299 root
                         IPv4
                                 2283
                                            0t0
netd
```

```
0 0.0.0.0:21
                                                                                            1601/inetd
                                                  0.0.0.0:*
                                                                              LISTEN
root@virt1:~# lsof -a -p 1601 -d0-10
                            TYPE DEVICE SIZE/OFF NODE NAME CHR 1,3 0t0 41 /dev
COMMAND PID USER
                      FD
inetd
         1601 root
                                                       41 /dev/null
                                      1,3
inetd
         1601 root
                                                0t0
                                                     41 /dev/null
TCP *:ftp (LISTEN)
         1601 root
                             CHR
inetd
                                      1,3
                            IPv4
inetd
         1601 root
                                     2855
                                                     TCP *:telnet (LISTEN)
         1601 root
                            IPv4
                                    2858
                                                0t0
inetd
                            IPv4
                                    2861
                                                     TCP *:auth (LISTEN)
inetd
         1601 root
                        6u
                                                0t0
```

EX 7.4

ftp> dir /usr/bin/z*

```
ftp> dir /usr/bin/z*
200 PORT command successful.
150 Opening ASCII mode data connection for '/bin/ls'.
-rwxr-xr-x 1 root root 13764 jun 8 2012 /usr/bin/zdump
-rwxr-xr-x 1 root root 2953 feb 21 2010 /usr/bin/zipgrep
-rwxr-xr-x 2 root root 145692 feb 21 2010 /usr/bin/zipinfo
-rwxr-xr-x 1 root root 95852 ene 3 2011 /usr/bin/zsoelim
226 Transfer complete.
```

The default data is in binary.

EX 7.5

+	117 688.181367965	10.1.1.2	10.1.1.1	FTP	89 Request: PORT 10,1,1,2,147,240
	118 688.188743478	10.1.1.1	10.1.1.2	FTP	96 Response: 200 PORT command successful
	119 688.188840413	10.1.1.2	10.1.1.1	TCP	66 52972 → 21 [ACK] Seq=95 Ack=708 Win=1
-	120 688.189000060	10.1.1.2	10.1.1.1	FTP	84 Request: LIST /usr/bin/z*
	121 688.207052221	10.1.1.1	10.1.1.2	TCP	74 20 → 37872 [SYN] Seq=0 Win=14600 Len=
	122 688.207215466	10.1.1.2	10.1.1.1	TCP	74 37872 → 20 [SYN, ACK] Seq=0 Ack=1 Win:
	123 688.217025889	10.1.1.1	10.1.1.2	TCP	66 20 → 37872 [ACK] Seq=1 Ack=1 Win=1460
	124 688.217583181	10.1.1.1	10.1.1.2	FTP	121 Response: 150 Opening ASCII mode data
	125 688.263312720	10.1.1.2	10.1.1.1	TCP	66 52972 → 21 [ACK] Seq=113 Ack=763 Win=
-	126 688.312954694	10.1.1.1	10.1.1.2	FTP-DA	308 FTP Data: 242 bytes (PORT) (LIST /usr.
-	127 688.313119749	10.1.1.2	10.1.1.1	TCP	66 37872 → 20 [ACK] Seq=1 Ack=243 Win=15!
	128 688.313442585	10.1.1.1	10.1.1.2	FTP	90 Response: 226 Transfer complete.
L	129 688.313488388	10.1.1.2	10.1.1.1	TCP	66 52972 → 21 [ACK] Seq=113 Ack=787 Win=
	130 688.313532876	10.1.1.1	10.1.1.2	TCP	66 20 → 37872 [FIN, ACK] Seq=243 Ack=1 W.
	131 688.313670564	10.1.1.2	10.1.1.1	TCP	66 37872 → 20 [FIN, ACK] Seq=1 Ack=244 W.
	132 688 313713087	10 1 1 1	10 1 1 2	TCP	66 20 → 37872 [ACK] Seg=244 Ack=2 Win=14

port on virt2: 37872

EX 7.6

files on virt1:

```
13764 jun
rwxr-xr-x 1 root
                    root
                                         8
                                             2012 zdump
                                2953 feb 21
                                              2010 zipgrep
rwxr-xr-x 1 root
                    root
                              145692 feb 21
rwxr-xr-x 2 root
                                              2010 zipinfo
                    root
                                          3
                               95852 ene
                                             2011 zsoelim
-rwxr-xr-x 1 root
                    root
```

files on virt2:

same?

EX 7.7

ю.	111116	Jource	Destination	I TOLOCOL L	engenino
_	1 0.000000000	10.1.1.2	10.1.1.1	TCP	74 44491 → 22 [SYN] Seq=0 Win=14600 Len=0 M
	2 0.000064982	10.1.1.1	10.1.1.2	TCP	74 22 → 44491 [SYN, ACK] Seq=0 Ack=1 Win=14
	3 0.000110757	10.1.1.2	10.1.1.1	TCP	66 44491 → 22 [ACK] Seq=1 Ack=1 Win=14608 L
	4 0.222320033	10.1.1.1	10.1.1.2	SSHv2	107 Server: Protocol (SSH-2.0-OpenSSH_5.5p1
	5 0.222393454	10.1.1.2	10.1.1.1	TCP	66 44491 → 22 [ACK] Seq=1 Ack=42 Win=14608
	6 0.224093951	10.1.1.2	10.1.1.1	SSHv2	107 Client: Protocol (SSH-2.0-OpenSSH_5.5p1
	7 0.224127784	10.1.1.1	10.1.1.2	TCP	66 22 → 44491 [ACK] Seq=42 Ack=42 Win=14480
	8 0.225690359	10.1.1.2	10.1.1.1	SSHv2	914 Client: Key Exchange Init
	9 0.225724168	10.1.1.1	10.1.1.2	TCP	66 22 → 44491 [ACK] Seq=42 Ack=890 Win=1617
	10 0.287303867	10.1.1.1	10.1.1.2	SSHv2	850 Server: Key Exchange Init
	11 0.288357040	10.1.1.2	10.1.1.1	SSHv2	90 Client: Diffie-Hellman Group Exchange Re
	12 0.296143925	10.1.1.1	10.1.1.2	SSHv2	218 Server: Diffie-Hellman Group Exchange Gr
	13 0.300519646	10.1.1.2	10.1.1.1	SSHv2	210 Client: Diffie-Hellman Group Exchange Ir
	14 0.331882288	10.1.1.1	10.1.1.2	SSHv2	786 Server: Diffie-Hellman Group Exchange Re
	15 0.338590405	10.1.1.2	10.1.1.1	SSHv2	82 Client: New Keys
	16 0.338649294	10.1.1.1	10.1.1.2	TCP	66 22 → 44491 [ACK] Seq=1698 Ack=1074 Win=1
	17 0.339134250	10.1.1.2	10.1.1.1	SSHv2	114 Client: Encrypted packet (len=48)
	18 0.339178863	10.1.1.1	10.1.1.2	TCP	66 22 → 44491 [ACK] Seg=1698 Ack=1122 Win=1
	19 0.339386338	10.1.1.1	10.1.1.2	SSHv2	114 Server: Encrypted packet (len=48)
	20 0.339940240	10.1.1.2	10.1.1.1	SSHv2	130 Client: Encrypted packet (len=64)
	21 0.366261899	10.1.1.1	10.1.1.2	SSHv2	130 Server: Encrypted packet (len=64)
	22 0.408908719	10.1.1.2	10.1.1.1	TCP	66 44491 → 22 [ACK] Seg=1186 Ack=1810 Win=1
	23 3.133918219	10.1.1.2	10.1.1.1	SSHv2	210 Client: Encrypted packet (len=144)
	24 3.181665654	10.1.1.1	10.1.1.2	TCP	66 22 → 44491 [ACK] Seq=1810 Ack=1330 Win=1
	25 3.186647569	10.1.1.1	10.1.1.2	SSHv2	98 Server: Encrypted packet (len=32)
	26 3.186742892	10.1.1.2	10.1.1.1	TCP	66 44491 → 22 [ACK] Seg=1330 Ack=1842 Win=1
	27 3.191643565	10.1.1.2	10.1.1.1	SSHv2	194 Client: Encrypted packet (len=128)
	28 3.191679153	10.1.1.1	10.1.1.2	TCP	66 22 → 44491 [ACK] Seg=1842 Ack=1458 Win=2
	29 3.221443797	10.1.1.1	10.1.1.2	SSHv2	114 Server: Encrypted packet (len=48)
	30 3.221909890	10.1.1.2	10.1.1.1	SSHv2	194 Client: Encrypted packet (len=128)
	31 3.233047585	10.1.1.1	10.1.1.2	TCP	66 22 → 44491 [ACK] Seq=1890 Ack=1586 Win=2
	32 3.255505022	10.1.1.1	10.1.1.2	SSHv2	146 Server: Encrypted packet (len=80)
	33 3.255813568	10.1.1.2	10.1.1.1	SSHv2	114 Client: Encrypted packet (len=48)
	34 3.255853473	10.1.1.1	10.1.1.2	TCP	66 22 → 44491 [ACK] Seg=1970 Ack=1634 Win=2
	35 3.425001368	10.1.1.1	10.1.1.2	SSHv2	210 Server: Encrypted packet (len=144)
	36 3.436304719	10.1.1.2	10.1.1.1	SSHv2	114 Client: Encrypted packet (len=48)
	37 3.436366563	10.1.1.1	10.1.1.2	TCP	
	38 3.438510552	10.1.1.1	10.1.1.2	SSHv2	146 Server: Encrypted packet (len=80)
_	39 3.471783738	10.1.1.2	10.1.1.1	TCP	66 44491 → 22 [ACK] Seg=1682 Ack=2194 Win=2
_	38 3.438510552	10.1.1.1	10.1.1.2	SSHv2	

EX 7.8 host:~\$ nano file.txt host:~\$ scp root@10.1.1.1: file.txt

**ERROR:

scp: .: not a regular file

1 0.000000000	10.1.1.3	10.1.1.1	TCP	74 52334 → 22 [SYN] Seq=0 Win=29200 Len=0
4 0.000220241	10.1.1.1	10.1.1.3	TCP	74 22 → 52334 [SYN, ACK] Seg=0 Ack=1 Win=1
5 0.000231357	10.1.1.3	10.1.1.1	TCP	66 52334 → 22 [ACK] Seq=1 Ack=1 Win=29312
6 0.004124384	10.1.1.3	10.1.1.1	SSHv2	106 Client: Protocol (SSH-2.0-OpenSSH_7.4p1
7 0.004220072	10.1.1.1	10.1.1.3	TCP	66 22 → 52334 [ACK] Seq=1 Ack=41 Win=14480
8 0.137781299	10.1.1.1	10.1.1.3	SSHv2	107 Server: Protocol (SSH-2.0-OpenSSH_5.5p1
9 0.137881473	10.1.1.3	10.1.1.1	TCP	66 52334 → 22 [ACK] Seq=41 Ack=42 Win=2931
10 0.138022139	10.1.1.3	10.1.1.1	SSHv2	1498 Client: Key Exchange Init
11 0.176507204	10.1.1.1	10.1.1.3	SSHv2	850 Server: Key Exchange Init
12 0.176643091	10.1.1.3	10.1.1.1	SSHv2	90 Client: Diffie-Hellman Group Exchange R
13 0.184627958	10.1.1.1	10.1.1.3	SSHv2	474 Server: Diffie-Hellman Group Exchange G
14 0.186473681	10.1.1.3	10.1.1.1	SSHv2	466 Client: Diffie-Hellman Group Exchange I
15 0.244507588	10.1.1.1	10.1.1.3	SSHv2	1042 Server: Diffie-Hellman Group Exchange R
16 0.288004998	10.1.1.3	10.1.1.1	TCP	66 52334 → 22 [ACK] Seg=1897 Ack=2210 Win=
17 3.386293417	10.1.1.3	10.1.1.1	SSHv2	82 Client: New Keys
18 3.421333151	10.1.1.1	10.1.1.3	TCP	66 22 → 52334 [ACK] Seq=2210 Ack=1913 Win=
19 3.489559663	10.1.1.3	10.1.1.1	SSHv2	106 Client: Encrypted packet (len=40)
20 3.489994159	10.1.1.1	10.1.1.3	TCP	66 22 → 52334 [ACK] Seg=2210 Ack=1953 Win=
21 3.490326023	10.1.1.1	10.1.1.3	SSHv2	106 Server: Encrypted packet (len=40)
22 3.490346030	10.1.1.3	10.1.1.1	TCP	66 52334 → 22 [ACK] Seg=1953 Ack=2250 Win=
23 3.490443948	10.1.1.3	10.1.1.1	SSHv2	122 Client: Encrypted packet (len=56)
24 3.535734153	10.1.1.1	10.1.1.3	SSHv2	122 Server: Encrypted packet (len=56)
25 3.579640461	10.1.1.3	10.1.1.1	TCP	66 52334 → 22 [ACK] Seq=2009 Ack=2306 Win=
26 6.012498424	10.1.1.3	10.1.1.1	SSHv2	202 Client: Encrypted packet (len=136)
27 6.062006953	10.1.1.1	10.1.1.3	SSHv2	90 Server: Encrypted packet (len=24)
28 6.062081428	10.1.1.3	10.1.1.1	TCP	66 52334 → 22 [ACK] Seq=2145 Ack=2330 Win=
29 6.062214765	10.1.1.3	10.1.1.1	SSHv2	178 Client: Encrypted packet (len=112)
30 6.100079743	10.1.1.1	10.1.1.3	SSHv2	106 Server: Encrypted packet (len=40)
31 6.100235129	10.1.1.3	10.1.1.1	SSHv2	178 Client: Encrypted packet (len=112)
32 6.110119256	10.1.1.1	10.1.1.3	SSHv2	130 Server: Encrypted packet (len=64)
33 6.110223611	10.1.1.3	10.1.1.1	SSHv2	106 Client: Encrypted packet (len=40)
34 6.253897355	10.1.1.1	10.1.1.3	SSHv2	122 Server: Encrypted packet (len=56)
35 6.255061526	10.1.1.1	10.1.1.3	SSHv2	90 Server: Encrypted packet (len=24)
36 6.255134263	10.1.1.3	10.1.1.1	TCP	66 52334 → 22 [ACK] Seq=2409 Ack=2514 Win=
37 6.255404005	10.1.1.1	10.1.1.3	SSHv2	202 Server: Encrypted packet (len=136)
38 6.255438931	10.1.1.3	10.1.1.1	SSHv2	90 Client: Encrypted packet (len=24)
39 6.255448334	10.1.1.3	10.1.1.1	SSHv2	122 Client: Encrypted packet (len=56)
40 6.255457964	10.1.1.3	10.1.1.1	TCP	66 52334 → 22 [FIN, ACK] Seq=2489 Ack=2650
41 6.255960215	10.1.1.1	10.1.1.3	TCP	66 22 → 52334 [ACK] Seq=2650 Ack=2490 Win=
42 6.265607258	10.1.1.1	10.1.1.3	TCP	66 22 → 52334 [FIN, ACK] Seq=2650 Ack=2490
43 6.265621040	10.1.1.3	10.1.1.1	TCP	66 52334 → 22 [ACK] Seg=2490 Ack=2651 Win=