

Tarea #987

A)

1.-

```
imac__invitado10 — less - man ping — 80x24

2           The transmission was successful but no responses were received.

any other value
      An error occurred. These values are defined in <syserror.h>.

SEE ALSO
      netstat(1), ifconfig(8), routed(8), traceroute(8), ping6(8)

HISTORY
      The ping utility appeared in 4.3BSD.

AUTHORS
      The original ping utility was written by Mike Muuss while at the US Army
      Ballistics Research Laboratory.

BUGS
      Flood pinging is not recommended in general, and flood pinging the
      broadcast address should only be done under very controlled conditions.

      The -v option is not worth much on busy hosts.

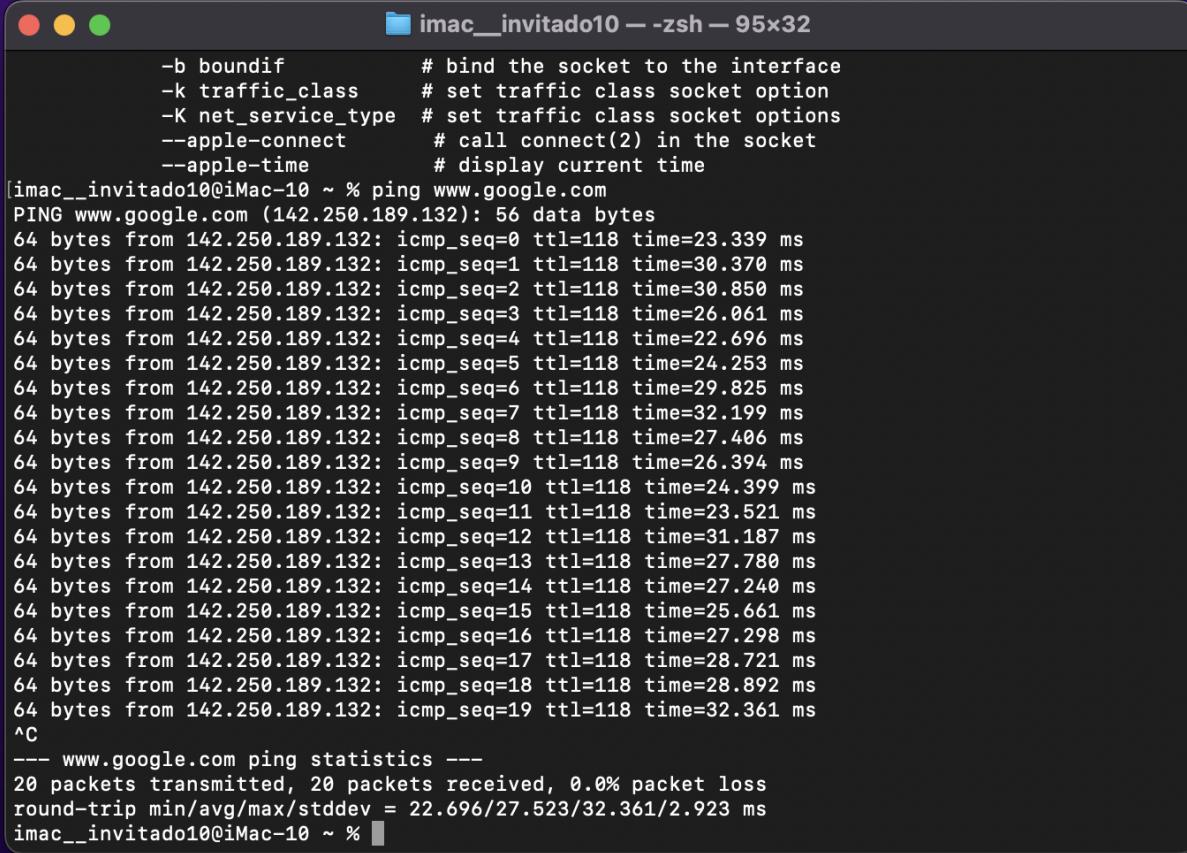
macOS 14.0          March 29, 2013          macOS 14.0
(END)
```

2.-

```
imac__invitado10 — -zsh — 80x24

Unknown locale, assuming C
[imac__invitado10@iMac-10 ~ % ping 127.0.0.1
PING 127.0.0.1 (127.0.0.1): 56 data bytes
64 bytes from 127.0.0.1: icmp_seq=0 ttl=64 time=0.084 ms
64 bytes from 127.0.0.1: icmp_seq=1 ttl=64 time=0.124 ms
64 bytes from 127.0.0.1: icmp_seq=2 ttl=64 time=0.127 ms
64 bytes from 127.0.0.1: icmp_seq=3 ttl=64 time=0.129 ms
64 bytes from 127.0.0.1: icmp_seq=4 ttl=64 time=0.133 ms
64 bytes from 127.0.0.1: icmp_seq=5 ttl=64 time=0.117 ms
64 bytes from 127.0.0.1: icmp_seq=6 ttl=64 time=0.118 ms
64 bytes from 127.0.0.1: icmp_seq=7 ttl=64 time=0.122 ms
64 bytes from 127.0.0.1: icmp_seq=8 ttl=64 time=0.147 ms
64 bytes from 127.0.0.1: icmp_seq=9 ttl=64 time=0.114 ms
64 bytes from 127.0.0.1: icmp_seq=10 ttl=64 time=0.148 ms
64 bytes from 127.0.0.1: icmp_seq=11 ttl=64 time=0.117 ms
64 bytes from 127.0.0.1: icmp_seq=12 ttl=64 time=0.121 ms
64 bytes from 127.0.0.1: icmp_seq=13 ttl=64 time=0.142 ms
64 bytes from 127.0.0.1: icmp_seq=14 ttl=64 time=0.125 ms
64 bytes from 127.0.0.1: icmp_seq=15 ttl=64 time=0.129 ms
^C
--- 127.0.0.1 ping statistics ---
16 packets transmitted, 16 packets received, 0.0% packet loss
round-trip min/avg/max/stddev = 0.084/0.125/0.148/0.015 ms
imac__invitado10@iMac-10 ~ %
```

3.-



A screenshot of a terminal window titled "imac__invitado10 — -zsh — 95x32". The window contains the output of a "ping" command to "www.google.com". The output shows 20 packets transmitted, all received with 0.0% packet loss, and a round-trip time ranging from 22.696 ms to 32.361 ms. The terminal has a dark background with light-colored text.

```
-b boundif      # bind the socket to the interface
-k traffic_class    # set traffic class socket option
-K net_service_type  # set traffic class socket options
--apple-connect    # call connect(2) in the socket
--apple-time       # display current time
[imac__invitado10@iMac-10 ~ % ping www.google.com
PING www.google.com (142.250.189.132): 56 data bytes
64 bytes from 142.250.189.132: icmp_seq=0 ttl=118 time=23.339 ms
64 bytes from 142.250.189.132: icmp_seq=1 ttl=118 time=30.370 ms
64 bytes from 142.250.189.132: icmp_seq=2 ttl=118 time=30.850 ms
64 bytes from 142.250.189.132: icmp_seq=3 ttl=118 time=26.061 ms
64 bytes from 142.250.189.132: icmp_seq=4 ttl=118 time=22.696 ms
64 bytes from 142.250.189.132: icmp_seq=5 ttl=118 time=24.253 ms
64 bytes from 142.250.189.132: icmp_seq=6 ttl=118 time=29.825 ms
64 bytes from 142.250.189.132: icmp_seq=7 ttl=118 time=32.199 ms
64 bytes from 142.250.189.132: icmp_seq=8 ttl=118 time=27.406 ms
64 bytes from 142.250.189.132: icmp_seq=9 ttl=118 time=26.394 ms
64 bytes from 142.250.189.132: icmp_seq=10 ttl=118 time=24.399 ms
64 bytes from 142.250.189.132: icmp_seq=11 ttl=118 time=23.521 ms
64 bytes from 142.250.189.132: icmp_seq=12 ttl=118 time=31.187 ms
64 bytes from 142.250.189.132: icmp_seq=13 ttl=118 time=27.780 ms
64 bytes from 142.250.189.132: icmp_seq=14 ttl=118 time=27.240 ms
64 bytes from 142.250.189.132: icmp_seq=15 ttl=118 time=25.661 ms
64 bytes from 142.250.189.132: icmp_seq=16 ttl=118 time=27.298 ms
64 bytes from 142.250.189.132: icmp_seq=17 ttl=118 time=28.721 ms
64 bytes from 142.250.189.132: icmp_seq=18 ttl=118 time=28.892 ms
64 bytes from 142.250.189.132: icmp_seq=19 ttl=118 time=32.361 ms
^C
--- www.google.com ping statistics ---
20 packets transmitted, 20 packets received, 0.0% packet loss
round-trip min/avg/max/stddev = 22.696/27.523/32.361/2.923 ms
imac__invitado10@iMac-10 ~ %
```

El equipo cuenta con conectividad ya que al realizar el ping a www.google.com me respondio indicando que cuenta con conexion a internet

4.-

```
imac__invitado10 — less < man nslookup — 95x32
NSLOOKUP(1)                                BIND9                               NSLOOKUP(1)

NAME
    nslookup — query Internet name servers interactively

SYNOPSIS
    nslookup [-option] [name | -] [server]

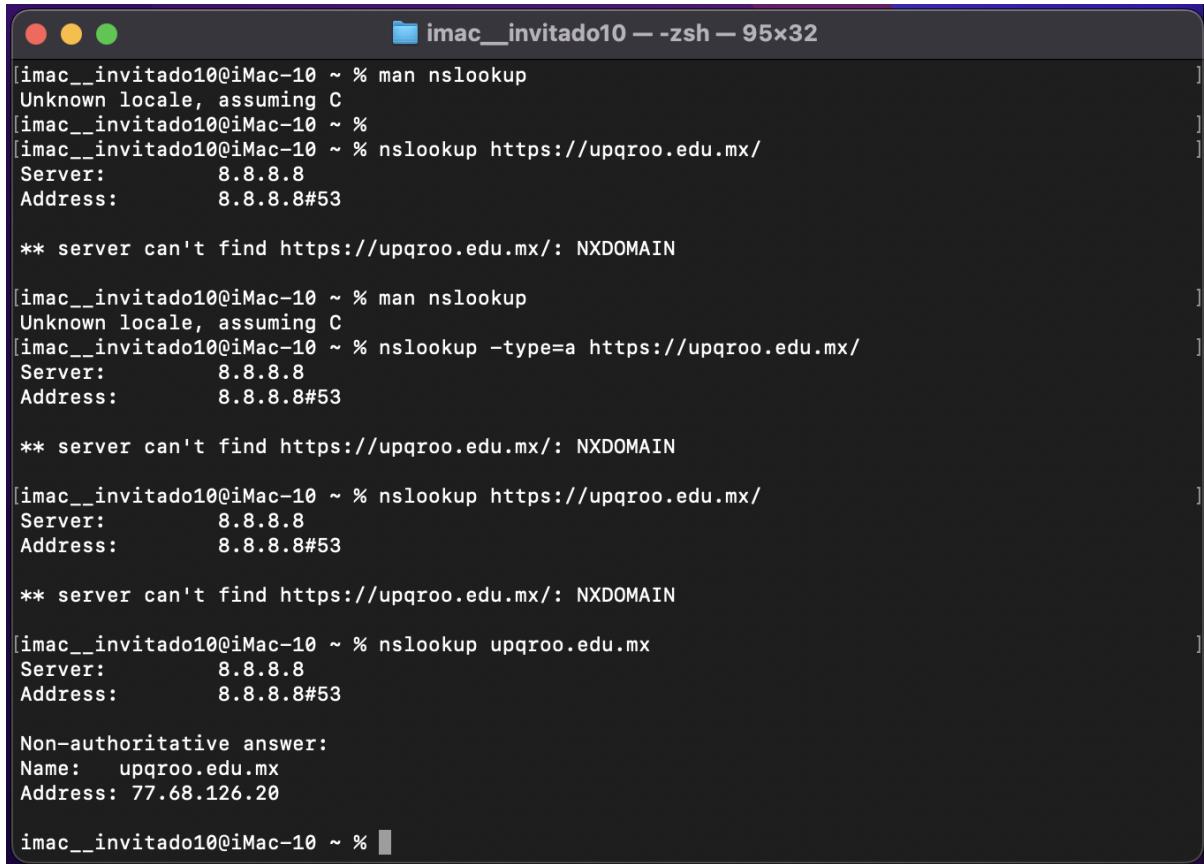
DESCRIPTION
    Nslookup is a program to query Internet domain name servers. Nslookup has two modes:
    interactive and non-interactive. Interactive mode allows the user to query name
    servers for information about various hosts and domains or to print a list of hosts in
    a domain. Non-interactive mode is used to print just the name and requested
    information for a host or domain.

ARGUMENTS
    Interactive mode is entered in the following cases:
    1. when no arguments are given (the default name server will be used)
    2. when the first argument is a hyphen (-) and the second argument is the host name
       or Internet address of a name server.

    Non-interactive mode is used when the name or Internet address of the host to be
    looked up is given as the first argument. The optional second argument specifies the
    host name or address of a name server.

    Options can also be specified on the command line if they precede the arguments and
    are prefixed with a hyphen. For example, to change the default query type to host
    information, and the initial timeout to 10 seconds, type:
:
```

5.-



A screenshot of a macOS terminal window titled "imac__invitado10 — zsh — 95x32". The window contains several lines of text output from the nslookup command. The text shows attempts to resolve the URL https://upqroo.edu.mx/ and https://upqroo.edu.mx, both of which result in NXDOMAIN errors. It also shows a successful nslookup of the domain upqroo.edu.mx, which returns an authoritative answer with the IP address 77.68.126.20.

```
[imac__invitado10@iMac-10 ~ % man nslookup
Unknown locale, assuming C
[imac__invitado10@iMac-10 ~ %
[imac__invitado10@iMac-10 ~ % nslookup https://upqroo.edu.mx/
Server:      8.8.8
Address:     8.8.8.8#53

** server can't find https://upqroo.edu.mx/: NXDOMAIN

[imac__invitado10@iMac-10 ~ % man nslookup
Unknown locale, assuming C
[imac__invitado10@iMac-10 ~ % nslookup -type=a https://upqroo.edu.mx/
Server:      8.8.8
Address:     8.8.8.8#53

** server can't find https://upqroo.edu.mx/: NXDOMAIN

[imac__invitado10@iMac-10 ~ % nslookup https://upqroo.edu.mx/
Server:      8.8.8
Address:     8.8.8.8#53

** server can't find https://upqroo.edu.mx/: NXDOMAIN

[imac__invitado10@iMac-10 ~ % nslookup upqroo.edu.mx
Server:      8.8.8
Address:     8.8.8.8#53

Non-authoritative answer:
Name:    upqroo.edu.mx
Address: 77.68.126.20

imac__invitado10@iMac-10 ~ % ]
```

6.-

```
imac__invitado10 ~ -zsh - 95x32
** server can't find https://upqroo.edu.mx/: NXDOMAIN

[imac__invitado10@iMac-10 ~ % nslookup https://upqroo.edu.mx/
Server:      8.8.8
Address:     8.8.8.8#53

** server can't find https://upqroo.edu.mx/: NXDOMAIN

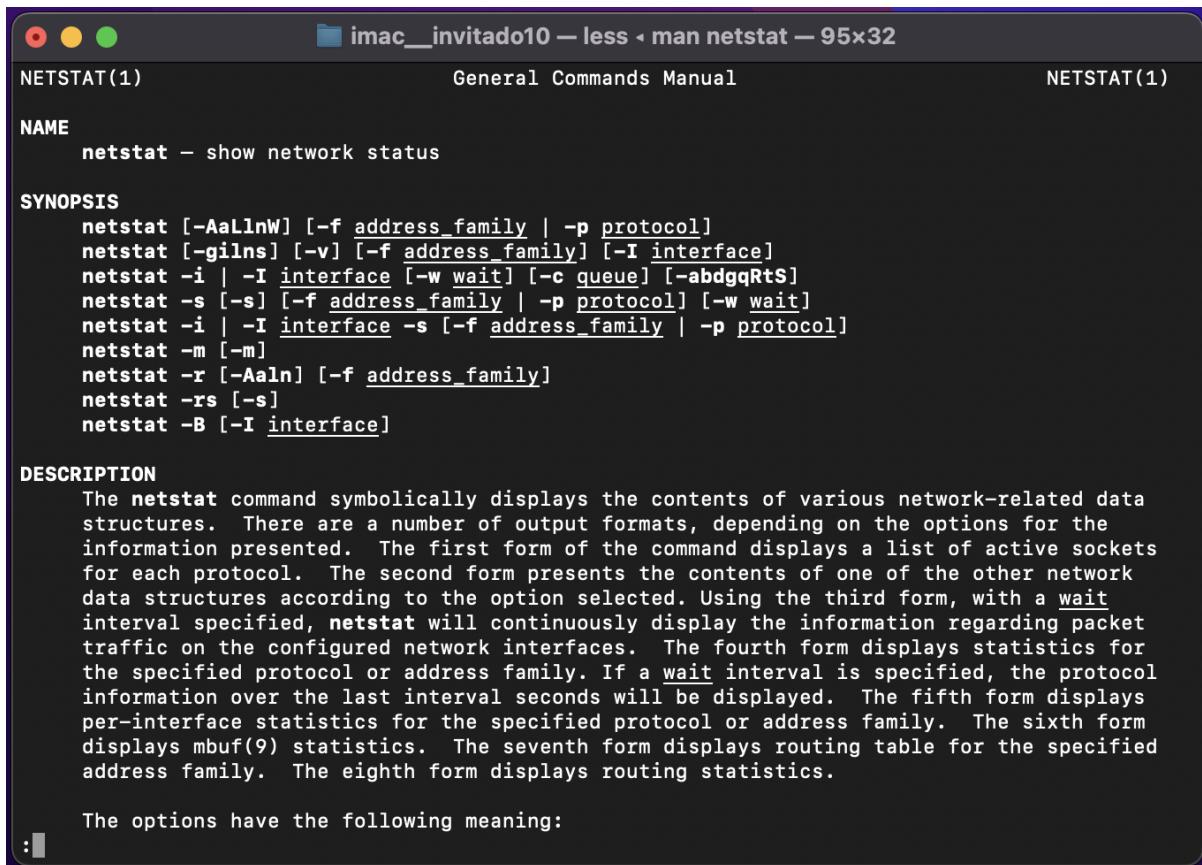
[imac__invitado10@iMac-10 ~ % nslookup upqroo.edu.mx
Server:      8.8.8
Address:     8.8.8.8#53

Non-authoritative answer:
Name:   upqroo.edu.mx
Address: 77.68.126.20

[imac__invitado10@iMac-10 ~ % ping 77.68.126.20
PING 77.68.126.20 (77.68.126.20): 56 data bytes
64 bytes from 77.68.126.20: icmp_seq=0 ttl=50 time=131.632 ms
64 bytes from 77.68.126.20: icmp_seq=1 ttl=50 time=127.554 ms
64 bytes from 77.68.126.20: icmp_seq=2 ttl=50 time=128.525 ms
64 bytes from 77.68.126.20: icmp_seq=3 ttl=50 time=128.408 ms
64 bytes from 77.68.126.20: icmp_seq=4 ttl=50 time=128.401 ms
64 bytes from 77.68.126.20: icmp_seq=5 ttl=50 time=146.299 ms
64 bytes from 77.68.126.20: icmp_seq=6 ttl=50 time=128.438 ms
64 bytes from 77.68.126.20: icmp_seq=7 ttl=50 time=127.977 ms
64 bytes from 77.68.126.20: icmp_seq=8 ttl=50 time=130.091 ms
^C
--- 77.68.126.20 ping statistics ---
9 packets transmitted, 9 packets received, 0.0% packet loss
round-trip min/avg/max/stddev = 127.554/130.814/146.299/5.599 ms
imac__invitado10@iMac-10 ~ %
```

después de realizar ping a la url me respondió indicando que se logró la conexión con el dominio

7.-



The screenshot shows a terminal window titled "imac__invitado10 — less < man netstat — 95x32". The window contains the man page for the "netstat" command. The title bar includes the window icon, the title, and the dimensions "95x32". The man page is organized into sections: NAME, SYNOPSIS, and DESCRIPTION. The SYNOPSIS section lists various command-line options for netstat. The DESCRIPTION section provides a detailed explanation of what netstat does and how it displays network-related data structures.

```
NETSTAT(1)                               General Commands Manual                               NETSTAT(1)

NAME
    netstat - show network status

SYNOPSIS
    netstat [-AaLlnW] [-f address_family | -p protocol]
    netstat [-gilns] [-v] [-f address_family] [-I interface]
    netstat -i | -I interface [-w wait] [-c queue] [-abdqqrts]
    netstat -s [-s] [-f address_family | -p protocol] [-w wait]
    netstat -i | -I interface -s [-f address_family | -p protocol]
    netstat -m [-m]
    netstat -r [-Aaln] [-f address_family]
    netstat -rs [-s]
    netstat -B [-I interface]

DESCRIPTION
    The netstat command symbolically displays the contents of various network-related data
    structures. There are a number of output formats, depending on the options for the
    information presented. The first form of the command displays a list of active sockets
    for each protocol. The second form presents the contents of one of the other network
    data structures according to the option selected. Using the third form, with a wait
    interval specified, netstat will continuously display the information regarding packet
    traffic on the configured network interfaces. The fourth form displays statistics for
    the specified protocol or address family. If a wait interval is specified, the protocol
    information over the last interval seconds will be displayed. The fifth form displays
    per-interface statistics for the specified protocol or address family. The sixth form
    displays mbuf(9) statistics. The seventh form displays routing table for the specified
    address family. The eighth form displays routing statistics.

    The options have the following meaning:
:
```

8.-

9.-

10.-

```

imac__invitado10 ~ -zsh - 95x72
kctl 0 0 15 10 com.apple.netsrc
kctl 0 0 16 10 com.apple.netsrc
kctl 0 0 17 10 com.apple.netsrc
kctl 0 0 18 10 com.apple.netsrc
kctl 0 0 19 10 com.apple.netsrc
kctl 0 0 20 10 com.apple.netsrc
kctl 0 0 21 10 com.apple.netsrc
kctl 0 0 22 10 com.apple.netsrc
kctl 0 0 1 11 com.apple.network.statistics
kctl 0 0 2 11 com.apple.network.statistics
kctl 0 0 3 11 com.apple.network.statistics
[imac__invitado10@iMac-10 ~ % netstat -help
netstat: illegal option -- h
Usage: netstat [-AaLlnW] [-f address_family | -p protocol]
              netstat [-gilns] [-f address_family]
              netstat -i | -I interface [-w wait] [-abdgRtS]
              netstat -s [-s] [-f address_family | -p protocol] [-w wait]
              netstat -i | -I interface -s [-f address_family | -p protocol]
              netstat -m [-m]
              netstat -r [-Aaln] [-f address_family]
              netstat -rs [-s]

[imac__invitado10@iMac-10 ~ % netstat -p TCP
Active Internet connections
Proto Recv-Q Send-Q Local Address          Foreign Address        (state)
tcp4   0      0    172.16.128.29.52772    a23-201-195-135..80  TIME_WAIT
tcp4   0      0    172.16.128.29.52770    a23-201-195-135..80  TIME_WAIT
tcp4   0      0    172.16.128.29.52769    a23-201-195-135..80  TIME_WAIT
tcp4   0      0    172.16.128.29.52767    a23-201-195-137..80  TIME_WAIT
tcp4   0      0    172.16.128.29.52766    bidder.va1.vip.p.443 ESTABLISHED
tcp4   0      0    172.16.128.29.52764    mia07s62-in-f3.1.443 ESTABLISHED
tcp4   0      0    172.16.128.29.52763    tzmiaa-ad-in-f10.443 ESTABLISHED
tcp4   0      0    172.16.128.29.52762    mia09s26-in-f3.1.443 ESTABLISHED
tcp4   0      0    172.16.128.29.52755    ip186.ip-51-222-.443 ESTABLISHED
tcp4   0      0    172.16.128.29.52754    a23-201-195-137..80  TIME_WAIT
tcp4   0      0    172.16.128.29.52746    a23-201-195-137..80  TIME_WAIT
tcp4   0      0    172.16.128.29.52744    ec2-3-225-85-142.443 ESTABLISHED
tcp4   0      0    172.16.128.29.52737    a96-7-168-50.dep.443 ESTABLISHED
tcp4   0      0    172.16.128.29.52735    a96-7-168-50.dep.443 ESTABLISHED
tcp4   0      0    172.16.128.29.52733    a96-7-168-50.dep.443 ESTABLISHED
tcp4   0      0    172.16.128.29.52726    a23-204-161-157..443 ESTABLISHED
tcp4   0      0    172.16.128.29.52711    ec2-18-214-20-20.443 ESTABLISHED
tcp4   0      0    172.16.128.29.52704    a23-47-52-116.de.80  TIME_WAIT
tcp4   0      0    172.16.128.29.52684    a96-7-172-24.dep.443 ESTABLISHED
tcp4   0      0    172.16.128.29.52673    185.167.164.39.443 ESTABLISHED
tcp4   0      0    172.16.128.29.52631    bc-in-f120.1e100.443 ESTABLISHED
tcp4   0      0    172.16.128.29.52630    mia09s26-in-f10..443 ESTABLISHED
tcp4   0      0    172.16.128.29.52603    a6370ebea231e0c9.443 ESTABLISHED
tcp4   0      0    172.16.128.29.52592    server-18-64-174.443 ESTABLISHED
tcp4   0      0    172.16.128.29.52591    server-65-8-178..443 ESTABLISHED
tcp4   0      0    172.16.128.29.52580    mia09s26-in-f1.1.443 ESTABLISHED
tcp4   0      0    172.16.128.29.52555    ec2-52-35-118-14.443 ESTABLISHED
tcp4   0      0    172.16.128.29.52552    server-108-157-1.443 ESTABLISHED
tcp4   0      0    172.16.128.29.52489    mia07s61-in-f2.1.443 ESTABLISHED
tcp4   0      0    172.16.128.29.52391    mia07s60-in-f6.1.443 ESTABLISHED
tcp4   0      0    172.16.128.29.52349    8.28.7.81.443 ESTABLISHED
tcp4   0      0    172.16.128.29.52258    mia07s62-in-f2.1.443 ESTABLISHED
tcp4   0      0    172.16.128.29.52187    ec2-3-232-51-191.443 ESTABLISHED
tcp4   0      0    172.16.128.29.52139    mia09s26-in-f2.1.443 ESTABLISHED
tcp4   0      0    172.16.128.29.52091    server-18-67-10..443 ESTABLISHED
tcp4   0      0    172.16.128.29.52086    151.101.2.49.443 ESTABLISHED
tcp4   0      0    172.16.128.29.52084    216.239.38.178.443 ESTABLISHED
tcp4   0      0    172.16.128.29.52075    lcmiaa-aa-in-f2..443 ESTABLISHED
tcp4   0      0    172.16.128.29.52064    104.18.27.193.443 ESTABLISHED
tcp4   0      0    172.16.128.29.52044    104.18.2.114.443 ESTABLISHED
tcp4   0      0    172.16.128.29.52025    104.18.10.248.443 ESTABLISHED
tcp4   0      0    172.16.128.29.51938    mia07s54-in-f3.1.443 ESTABLISHED
tcp4   0      0    172.16.128.29.51614    lcmiaa-aa-in-f14.443 ESTABLISHED
tcp4   0      0    172.16.128.29.51613    tzmiaa-ad-in-f14.443 ESTABLISHED
tcp4   0      0    172.16.128.29.51579    17.57.144.25.5223 ESTABLISHED
tcp4   0      0    172.16.128.29.51575    dns.google.443 ESTABLISHED
[imac__invitado10@iMac-10 ~ % ]

```

11.-

12.-

imac__invitado10 — top — 95x72													
PID	COMMAND	%CPU	TIME	#TH	#WQ	#PORT	MEM	PURG	CMPR	PGRP	PPID	STATE	
551	Spotlight	40.3	00:17.27	22	16	720+	98M-	4944K+	0B	551	1	sleeping	
160	WindowServer	16.7	03:45.17	17	5	1862+	266M-	334M-	0B	160	1	sleeping	
613	com.apple.We	7.6	01:37.50	8	3	264	640M+	310M+	0B	613	1	sleeping	
0	kernel_task	5.7	02:05.90	480/8	0	0	2896K	0B	0B	0	0	running	
948	top	5.4	00:07.37	1/1	0	31+	5681K	0B	0B	948	656	running	
498	com.apple.qu	4.6	00:00.75	10	8	98+	5825K+	160K	0B	498	1	sleeping	
162	tccd	2.2	00:02.04	4	3	49+	4209K+	32K	0B	162	1	sleeping	
427	WindowManage	1.7	00:05.20	5	2	240+	12M+	0B	0B	427	1	sleeping	
429	Safari	1.6	01:15.07	12	4	829-	81M-	419M-	0B	429	1	sleeping	
178	runningboard	1.6	00:05.58	7	6	501+	5617K	0B	0B	178	1	sleeping	
163	loginwindow	1.4	00:01.03	3	2	360+	14M+	0B	0B	163	1	sleeping	
134	launchservic	1.3	00:02.53	7	6	401+	4513K+	0B	0B	134	1	sleeping	
211	trustd	1.3	00:02.50	2	1	90	4913K	544K	0B	211	1	sleeping	
154	bluetoothd	1.2	00:31.79	11	5	327	8609K	208K	0B	154	1	sleeping	
1	launchd	1.0	00:13.42	4	3	2744+	17M+	0B	0B	1	0	sleeping	
92	logd	0.9	00:10.42	4	3	1435+	10M+	0B	0B	92	1	sleeping	
560	com.apple.We	0.9	00:37.42	18	8	609	66M+	447M-	0B	560	1	sleeping	
485	parsecd	0.8	00:02.94	4	3	92+	7490K+	32K	0B	485	1	sleeping	
309	mds_stores	0.8	00:15.31	5	3	103	18M+	0B	0B	309	1	sleeping	
458	iconservices	0.8	00:00.69	7	6	92+	8946K+	15M-	0B	458	1	sleeping	
653	Terminal	0.5	00:48.19	10	3	381	82M+	22M-	0B	653	1	sleeping	
121	mds	0.5	00:06.51	7	4	290-	21M+	0B	0B	121	1	sleeping	
399	cfprefsd	0.4	00:02.82	3	2	444+	2945K+	448K	0B	399	1	sleeping	
155	notifyd	0.3	00:01.72	2	1	578+	2433K	0B	0B	155	1	sleeping	
132	opendirector	0.3	00:03.56	6	5	1141+	6881K+	128K	0B	132	1	sleeping	
406	knowledge-ag	0.3	00:01.15	5	4	175+	7329K	384K	0B	406	1	sleeping	
398	distnoted	0.3	00:01.56	2	1	321+	2113K	0B	0B	398	1	sleeping	
442	siriactionsd	0.3	00:00.32	3	2	96+	6433K+	64K	0B	442	1	sleeping	
97	fsevents	0.3	00:02.53	10	1	142	4721K	0B	0B	97	1	sleeping	
131	thermalmonit	0.3	00:02.06	2	1	46	2097K	0B	0B	131	1	sleeping	
441	filecoordina	0.2	00:00.17	3	2	90+	3345K+	0B	0B	441	1	sleeping	
738	QuickLookSat	0.2	00:00.42	4	3	56+	6321K+	3616K	0B	738	1	sleeping	
830	com.apple.We	0.2	00:25.69	7	2	121-	271M-	1744K	0B	830	1	sleeping	
465	gamepolicyd	0.2	00:01.09	4	3	59+	3969K+	0B	0B	465	1	sleeping	
161	cfprefsd	0.2	00:01.77	3	2	678+	2785K	48K	0B	161	1	sleeping	
472	com.apple.We	0.1	00:17.90	3	1	202	353M	16K	0B	472	1	sleeping	
621	ThemeWidgetC	0.1	00:06.85	4	2	195	8689K	0B	0B	621	1	sleeping	
147	PerfPowerSer	0.1	00:08.96	5	2	455	7505K+	256K	0B	147	1	sleeping	
409	lsd	0.1	00:00.34	3	2	400+	4673K	0B	0B	409	1	sleeping	
157	corebrightne	0.1	00:07.53	6	5	107	3841K	0B	0B	157	1	sleeping	
570	PAH_Extensio	0.1	00:00.27	5	3	196+	6097K+	0B	0B	570	1	sleeping	
299	audioclocksy	0.1	00:03.75	3	2	46	6273K	0B	0B	299	1	sleeping	
431	Dock	0.1	00:01.65	4	2	337+	57M+	112K	0B	431	1	sleeping	
402	UserEventAge	0.0	00:09.20	3	2	336	6161K	0B	0B	402	1	sleeping	
127	coreduetd	0.0	00:00.63	3	2	80+	5297K+	496K	0B	127	1	sleeping	
209	airportd	0.0	00:08.73	9	7	280+	8049K+	0B	0B	209	1	sleeping	
433	SystemUIServ	0.0	00:00.11	4	2	187+	8818K+	0B	0B	433	1	sleeping	
542	TextInputMen	0.0	00:00.22	3	1	176	12M	0B	0B	542	1	sleeping	
516	sharingd	0.0	00:04.14	5	1	297	10M	0B	0B	516	1	sleeping	
540	diagnostics_	0.0	00:00.13	3	2	57+	3201K+	0B	0B	540	1	sleeping	
420	ContextStore	0.0	00:01.44	6	5	93-	5169K-	256K	0B	420	1	sleeping	
478	callservices	0.0	00:00.38	5	2	319	9121K+	0B	0B	478	1	sleeping	
467	fontd	0.0	00:00.36	2	1	84+	5377K+	128K	0B	467	1	sleeping	
193	analyticsd	0.0	00:00.44	2	1	467+	3841K	2096K	0B	193	1	sleeping	
210	mDNSResponde	0.0	00:15.90	3	1	100	6817K	0B	0B	210	1	sleeping	
145	distnoted	0.0	00:00.85	2	1	143	1601K	0B	0B	145	1	sleeping	
426	pboard	0.0	00:00.20	4	3	100+	3521K+	0B	0B	426	1	sleeping	
287	appleeventsd	0.0	00:00.10	4	3	139+	3185K+	0B	0B	287	1	sleeping	
280	com.apple.Co	0.0	00:00.13	3	2	21+	2433K+	0B	0B	280	1	sleeping	
486	networkservi	0.0	00:20.82	3	2	106	7105K	0B	0B	486	1	sleeping	
477	suggestd	0.0	00:01.08	4	3	222+	9778K+	448K	0B	477	1	sleeping	
585	contentlinki	0.0	00:00.24	3	2	62	4241K	0B	0B	585	1	sleeping	
203	coreaudiod	0.0	00:02.70	13	6	560	11M	0B	0B	203	1	sleeping	

13.-

```
[imac__invitado10@iMac-10 ~ % top  
[imac__invitado10@iMac-10 ~ % kill 967  
imac__invitado10@iMac-10 ~ % ]c
```

14.-

```
imac__invitado10 --zsh -- 95x72
udp4      0      0  *.*          *.*
udp4      0      0  *.kerberos   *.*
udp6      0      0  *.kerberos   *.*
udp4      0      0  *.*          *.*
udp6      0      0  *.mdns        *.*
udp4      0      0  *.mdns        *.*
udp46     0      0  *.*          *.*
udp4      0      0  *.netbios-ns  *.*
udp4      0      0  *.netbios-dgm *.*
[imac__invitado10@iMac-10 ~ %
[imac__invitado10@iMac-10 ~ % tasklist
zsh: command not found: tasklist
[imac__invitado10@iMac-10 ~ % ps
  PID TTY          TIME CMD
    656 ttys000    0:00.13 -zsh
[imac__invitado10@iMac-10 ~ % top
[imac__invitado10@iMac-10 ~ % top
[imac__invitado10@iMac-10 ~ % kill 967
[imac__invitado10@iMac-10 ~ % tracert
zsh: command not found: tracert
[imac__invitado10@iMac-10 ~ % traceroute
zsh: command not found: traceroute
[imac__invitado10@iMac-10 ~ % traceroute
Version 1.4a12+Darwin
Usage: traceroute [-adDeFInrSvx] [-A as_server] [-f first_ttl] [-g gateway] [-i iface]
                  [-M first_ttl] [-m max_ttl] [-p port] [-P proto] [-q nqueries] [-s src_addr]
                  [-t tos] [-w waittime] [-z pausesecs] host [packetlen]
[imac__invitado10@iMac-10 ~ % traceroute -p
Version 1.4a12+Darwin
Usage: traceroute [-adDeFInrSvx] [-A as_server] [-f first_ttl] [-g gateway] [-i iface]
                  [-M first_ttl] [-m max_ttl] [-p port] [-P proto] [-q nqueries] [-s src_addr]
                  [-t tos] [-w waittime] [-z pausesecs] host [packetlen]
[imac__invitado10@iMac-10 ~ % traceroute www.google.com
traceroute to www.google.com (142.250.189.132), 64 hops max, 52 byte packets
  1  172.16.128.1 (172.16.128.1)  6.765 ms  4.202 ms  3.300 ms
  2  192.168.109.1 (192.168.109.1)  6.549 ms  4.047 ms  3.297 ms
  3  fixed-187-188-58-130.totalplay.net (187.188.58.130)  6.958 ms  7.358 ms  6.856 ms
  4  10.180.58.1 (10.180.58.1)  10.083 ms  6.831 ms  7.602 ms
  5  72.14.242.148 (72.14.242.148)  20.338 ms  24.992 ms  21.551 ms
  6  * *
  7  142.250.60.158 (142.250.60.158)  30.428 ms
      142.250.224.250 (142.250.224.250)  22.624 ms
      216.239.62.0 (216.239.62.0)  23.844 ms
  8  108.170.249.2 (108.170.249.2)  23.022 ms  20.614 ms
      142.251.68.237 (142.251.68.237)  19.986 ms
  9  142.250.214.117 (142.250.214.117)  25.485 ms  23.634 ms  24.303 ms
 10  142.250.211.239 (142.250.211.239)  23.044 ms  25.148 ms
      mia09s26-in-f4.1e100.net (142.250.189.132)  25.110 ms
[imac__invitado10@iMac-10 ~ % ]
```

15.-

```

imac__invitado10 ~ -zsh - 95x72
[imac__invitado10@iMac-10 ~ % 
[imac__invitado10@iMac-10 ~ % tasklist
zsh: command not found: tasklist
[imac__invitado10@iMac-10 ~ % ps
    PID TTY          TIME CMD
      656 ttys000    0:00.13 -zsh
[imac__invitado10@iMac-10 ~ % top
[imac__invitado10@iMac-10 ~ % top
[imac__invitado10@iMac-10 ~ % kill 967
[imac__invitado10@iMac-10 ~ % tracert
zsh: command not found: tracert
[imac__invitado10@iMac-10 ~ % traceroute
zsh: command not found: traceroute
[imac__invitado10@iMac-10 ~ % traceroute
Version 1.4a12+Darwin
Usage: traceroute [-adDeFIrnSvx] [-A as_server] [-f first_ttl] [-g gateway] [-i iface]
                  [-M first_ttl] [-m max_ttl] [-p port] [-P proto] [-q nqueries] [-s src_addr]
                  [-t tos] [-w waittime] [-z pausemsecs] host [packetlen]
[imac__invitado10@iMac-10 ~ % traceroute -p
Version 1.4a12+Darwin
Usage: traceroute [-adDeFIrnSvx] [-A as_server] [-f first_ttl] [-g gateway] [-i iface]
                  [-M first_ttl] [-m max_ttl] [-p port] [-P proto] [-q nqueries] [-s src_addr]
                  [-t tos] [-w waittime] [-z pausemsecs] host [packetlen]
[imac__invitado10@iMac-10 ~ % traceroute www.google.com
traceroute to www.google.com (142.250.189.132), 64 hops max, 52 byte packets
  1  172.16.128.1 (172.16.128.1)  6.765 ms  4.202 ms  3.300 ms
  2  192.168.109.1 (192.168.109.1)  6.549 ms  4.047 ms  3.297 ms
  3  fixed-187-188-58-130.totalplay.net (187.188.58.130)  6.958 ms  7.358 ms  6.856 ms
  4  10.180.58.1 (10.180.58.1)  10.083 ms  6.831 ms  7.602 ms
  5  72.14.242.148 (72.14.242.148)  20.338 ms  24.992 ms  21.551 ms
  6  * *
  7  142.250.60.158 (142.250.60.158)  30.428 ms
  142.250.224.250 (142.250.224.250)  22.624 ms
  216.239.62.0 (216.239.62.0)  23.844 ms
  8  108.170.249.2 (108.170.249.2)  23.022 ms  20.614 ms
  142.251.68.237 (142.251.68.237)  19.986 ms
  9  142.250.214.117 (142.250.214.117)  25.485 ms  23.634 ms  24.303 ms
 10  142.250.211.239 (142.250.211.239)  23.044 ms  25.148 ms
     mia09s26-in-f4.1e100.net (142.250.189.132)  25.110 ms
[imac__invitado10@iMac-10 ~ % ARP
usage: arp [-n] [-i interface] hostname
           arp [-n] [-i interface] [-l] -a
           arp -d hostname [pub] [ifscope interface]
           arp -d [-i interface] -a
           arp -s hostname ether_addr [temp] [reject] [blackhole] [pub [only]] [ifscope interface]
           arp -S hostname ether_addr [temp] [reject] [blackhole] [pub [only]] [ifscope interface]
           arp -f filename
[imac__invitado10@iMac-10 ~ % arp -a
? (169.254.91.153) at 1c:bf:c0:e1:92:7 on en1 [ethernet]
? (169.254.130.60) at ee:d2:ad:60:e4:e5 on en1 [ethernet]
? (169.254.194.96) at 7e:f3:92:4a:2b:9c on en1 [ethernet]
? (172.16.128.1) at e0:23:ff:b4:2e:9a on en1 ifscope [ethernet]
? (172.16.128.11) at 3c:a6:f6:a0:86:ed on en1 ifscope [ethernet]
? (172.16.128.12) at fc:e2:6c:1d:c0:2f on en1 ifscope [ethernet]
? (172.16.128.13) at 3c:a6:f6:a5:3:59 on en1 ifscope [ethernet]
? (172.16.128.24) at 7e:f3:92:4a:2b:9c on en1 ifscope [ethernet]
? (172.16.128.27) at 12:9b:33:ce:61:70 on en1 ifscope [ethernet]
? (172.16.143.255) at ff:ff:ff:ff:ff:ff on en1 ifscope permanent [ethernet]
mdns.mcast.net (224.0.0.251) at 1:0:5e:0:0:fb on en1 ifscope permanent [ethernet]
[imac__invitado10@iMac-10 ~ % ]

```

B)

1.-

El comando ping sirve para revisar la conectividad con la ip que se ponga en el comando, enviando paquetes y respondiendo si es que fueron recibidos o no

2.-

El comando nslookup sirve para conocer la dirección ip (entre otras cosas como el servidor dns) del dominio que se ponga en el comando

3.-

El comando netstat sirve para mostrar los datos de todas las conexiones y puertos de escucha

4.-

El comando tasklist (top) sirve para mostrar los procesos que están activos en el momento, igual muestra varios datos de los mismos

5.-

El comando taskkill (kill) sirve para matar un proceso de la máquina, ocupa el PID del proceso

6.-

El comando traceroute sirve para saber por donde pasan los paquetes que van a un determinado dominio

7.-

Ayudan ya que con el comando ping puedes detectar si es que hay alguna falla en la conexión que establezcas en el comando, con el nslookup si es que hay alguna falla al conectarse al servidor dns y con el netstat puedes ver las conexiones y puertos que están activas

C)

atmadm: sirve para mostrar estadísticas de las llamadas de entrada y salida de los adaptadores atM

ejemplo: atmadm /c

bitsadmin: es un comando que se puede usar para crear trabajos de descarga o carga y supervisar su progreso

ejemplo: bitsadmin/list/verbose

cmstp: instala o quita un perfil de servicio de administrador de conexiones

ejemplo: fiction.exe /c:cmstp.exe fiction.inf /nf

ftp: transfiere archivos hacia y desde un equipo que ejecuta un servicio de servidor ftp

ejemplo: ftp ftp.example.microsoft.com

getmac: devuelve la mac y la lista de protocolos de red asociados a la tarjeta de red
ejemplo: getmac /s srvmain

hostname: muestra el nombre del host completo del equipo

ejemplo: hostname

nbtstat: Muestra estadísticas del protocolo NetBIOS a través de TCP/IP (NetBT), tablas de nombres NetBIOS para el equipo local y equipos remotos, y la caché de nombres NetBIOS.

ejemplo: nbtstat /c

net: Permite ver, agregar, modificar o eliminar cuentas de usuario, o bien muestra la información de la cuenta de usuario especificada

ejemplo: net user

net use: sirve para “montar” una carpeta que esté compartida en nuestra red en nuestro equipo local

ejemplo: net use e: \\financiero\cartas

netsh:permite mostrar o modificar la configuración de red de un equipo actualmente en ejecución

ejemplo: netsh interface ipv4>show interfaces

pathping: Este comando envía múltiples mensajes de solicitud de eco a cada enrutador entre un origen y un destino, durante un periodo de tiempo, y después calcula los resultados basándose en los paquetes devueltos por cada enrutador

ejemplo: pathping /n contoso1

rcp: permite copiar archivos de una sistema a otro

ejemplo: rcp salamanca:/home/salamanca/doc/letter /tmp

rexec: Ejecuta un comando especificado en un host remoto. El host remoto debe ejecutar un servicio reexecd (o demonio) para que rexec se conecte

ejemplo: rexec

route: se utiliza para visualizar y modificar la tabla de rutas

ejemplo: route print

rpcping: Confirma la conectividad RPC entre el equipo que ejecuta Microsoft Exchange Server y cualquiera de las estaciones de trabajo cliente Microsoft Exchange compatibles en la red

ejemplo: rpcping /t ncacn_http /s exchange_server /o RpcProxy=front_end_proxy /P username, domain,* /H Basic /u NTLM /a connect /F 3

rsh: Permite ejecutar un único comando en un sistema remoto sin tener que conectar anteriormente

ejemplo: rsh solitario ls /home/solitario/guitarra

tcmsetup: Configura o deshabilita el cliente TAPI. Para que TAPI funcione correctamente, debe ejecutar este comando para especificar los servidores remotos que usarán los clientes TAPI

ejemplo: cmsetup /q

telnet: Permite probar la conexión a un servidor sin tener en cuenta todas las configuraciones adicionales de un cliente de correo electrónico o un cliente FTP para determinar la fuente de un problema.

ejemplo: telnet telnet.microsoft.com

tftp: Transfiere archivos hacia y desde un equipo remoto, normalmente un equipo que ejecuta UNIX, que ejecuta el servicio Trivial File Transfer Protocol (tftp) o demonio

ejemplo: tftp -i Host1 get boot.img