

```
vinay@jarvis:~$ arp -v
Address                HWtype  HWaddress           Flags Mask            Iface
192.168.55.105         ether   34:e1:2d:17:c6:6d   C                     wlp12s0
_gateway               ether   9c:65:ee:47:ba:8f   C                     wlp12s0
Entries: 2             Skipped: 0           Found: 2

vinay@jarvis:~$ 
vinay@jarvis:~$ arp -n
Address                HWtype  HWaddress           Flags Mask            Iface
192.168.55.105         ether   34:e1:2d:17:c6:6d   C                     wlp12s0
192.168.55.1           ether   9c:65:ee:47:ba:8f   C                     wlp12s0

vinay@jarvis:~$ 
vinay@jarvis:~$ arp -e
Address                HWtype  HWaddress           Flags Mask            Iface
192.168.55.105         ether   34:e1:2d:17:c6:6d   C                     wlp12s0
_gateway               ether   9c:65:ee:47:ba:8f   C                     wlp12s0

vinay@jarvis:~$ 
vinay@jarvis:~$ arp -a
? (192.168.55.105) at 34:e1:2d:17:c6:6d [ether] on wlp12s0
_gateway (192.168.55.1) at 9c:65:ee:47:ba:8f [ether] on wlp12s0
vinay@jarvis:~$ 

[17k61a05f5@online ~]$ finger -s
Login      Name      Tty      Idle   Login Time   Office      Office Phone
17k61a0572 pts/59                Nov 29 12:13 (172.168.3.22)
17k61a0578 pts/54          3   Nov 29 12:04 (172.168.1.175)
17k61a0579 pts/22                Nov 29 12:02 (172.168.2.103)
17k61a0580 pts/55                Nov 29 11:40 (172.168.2.174)
17k61a0595 pts/35          16   Nov 29 10:30 (172.168.4.155)
17k61a05a0 pts/48          1   Nov 29 10:31 (172.168.3.8)
17k61a05a1 pts/8           21   Nov 29 10:20 (172.168.1.77)
17k61a05a5 pts/6                Nov 29 10:17 (172.168.4.187)

[17k61a05f5@online ~]$ finger -m
Login      Name      Tty      Idle   Login Time   Office      Office Phone
17k61a0572 pts/59                Nov 29 12:13 (172.168.3.22)
17k61a0580 pts/55                Nov 29 11:40 (172.168.2.174)
17k61a0595 pts/35          19   Nov 29 10:30 (172.168.4.155)
17k61a05a0 pts/48                Nov 29 10:31 (172.168.3.8)
17k61a05a1 pts/8           24   Nov 29 10:20 (172.168.1.77)

[17k61a05f5@online ~]$ finger -p
Login      Name      Tty      Idle   Login Time   Office      Office Phone
17k61a0572 pts/59                Nov 29 12:13 (172.168.3.22)
17k61a0580 pts/55                Nov 29 11:40 (172.168.2.174)
17k61a0595 pts/35                Nov 29 10:30 (172.168.4.155)
17k61a05a0 pts/48                Nov 29 10:31 (172.168.3.8)
17k61a05a1 pts/8           36   Nov 29 10:20 (172.168.1.77)
17k61a05a1 pts/22                Nov 29 12:29 (172.168.1.77)
17k61a05a5 pts/6           4    Nov 29 10:17 (172.168.4.187)
17k61a05a6 pts/26          1    Nov 29 10:22 (172.168.1.145)

vinay@jarvis:~$ ifconfig -s
Iface      MTU      RX-OK RX-ERR RX-DRP RX-OVR      TX-OK TX-ERR TX-DRP TX-OVR Flg
enp9s0     1500      0      0      0 0          0      0      0      0 BMU
lo         65536    16242      0      0 0        16242      0      0      0 LRU
wlp12s0    1500    121938      0      0 0         87833      0      0      0 BMRU

vinay@jarvis:~$ 
[17k61a05f5@online ~]$ ping -w 5 dccomics.com
PING dccomics.com (35.165.154.218) 56(84) bytes of data.

--- dccomics.com ping statistics ---
6 packets transmitted, 0 received, 100% packet loss, time 4999ms
```

```
[17k61a05f5@online ~]$ finger -l
Login: root                                Name: root
Directory: /root                          Shell: /bin/bash
On since Thu Oct 10 09:19 (IST) on tty7 from :0
    8 days 2 hours idle
On since Thu Oct 10 09:19 (IST) on pts/1 from :0
    50 days 3 hours idle
On since Sat Oct 26 11:24 (IST) on pts/2 from :0
    19 days 22 hours idle
    (messages off)
On since Thu Nov 21 09:49 (IST) on pts/4 from :0
    8 days 2 hours idle
    (messages off)
Last login Mon Nov 25 16:29 (IST) on pts/85 from 172.168.3.107
New mail received Fri Nov 29 04:57 2019 (IST)
    Unread since Thu Feb 19 21:42 2015 (IST)
No Plan.
```

```
vinay@jarvis:~$ ifconfig
```

```
enp9s0: flags=4099<UP,BROADCAST,MULTICAST> mtu 1500
    ether f0:4d:a2:67:8d:6b txqueuelen 1000 (Ethernet)
    RX packets 0 bytes 0 (0.0 B)
    RX errors 0 dropped 0 overruns 0 frame 0
    TX packets 0 bytes 0 (0.0 B)
    TX errors 0 dropped 0 overruns 0 carrier 0 collisions 0

lo: flags=73<UP,LOOPBACK,RUNNING> mtu 65536
    inet 127.0.0.1 netmask 255.0.0.0
    inet6 ::1 prefixlen 128 scopeid 0x10<host>
    loop txqueuelen 1000 (Local Loopback)
    RX packets 17144 bytes 2869630 (2.8 MB)
    RX errors 0 dropped 0 overruns 0 frame 0
    TX packets 17144 bytes 2869630 (2.8 MB)
    TX errors 0 dropped 0 overruns 0 carrier 0 collisions 0
```

```
[17k61a05f5@online ~]$ ping facebook.com
PING facebook.com (157.240.192.35) 56(84) bytes of data.
64 bytes from edge-star-mini-shv-02-maa2.facebook.com (157.240.192.35): icmp_seq=2 ttl=54 time=29.9 ms
64 bytes from edge-star-mini-shv-02-maa2.facebook.com (157.240.192.35): icmp_seq=6 ttl=54 time=27.5 ms
64 bytes from edge-star-mini-shv-02-maa2.facebook.com (157.240.192.35): icmp_seq=7 ttl=54 time=29.3 ms
64 bytes from edge-star-mini-shv-02-maa2.facebook.com (157.240.192.35): icmp_seq=8 ttl=54 time=29.9 ms
64 bytes from edge-star-mini-shv-02-maa2.facebook.com (157.240.192.35): icmp_seq=9 ttl=54 time=28.7 ms
64 bytes from edge-star-mini-shv-02-maa2.facebook.com (157.240.192.35): icmp_seq=12 ttl=54 time=30.0 ms
64 bytes from edge-star-mini-shv-02-maa2.facebook.com (157.240.192.35): icmp_seq=13 ttl=54 time=26.5 ms
64 bytes from edge-star-mini-shv-02-maa2.facebook.com (157.240.192.35): icmp_seq=14 ttl=54 time=28.9 ms
```

```
--- facebook.com ping statistics ---
```

```
14 packets transmitted, 8 received, 42% packet loss, time 23419ms
rtt min/avg/max/mdev = 26.580/28.886/30.027/1.170 ms
```

```
[17k61a05f5@online ~]$
```

```
[17k61a05f5@online ~]$ ping -c 2 www.instagram.com
```

```
PING z-p42-instagram.c10r.facebook.com (157.240.192.174) 56(84) bytes of data.
64 bytes from instagram-p42-shv-02-maa2.fbcdn.net (157.240.192.174): icmp_seq=1 ttl=54 time=30.9 ms
64 bytes from instagram-p42-shv-02-maa2.fbcdn.net (157.240.192.174): icmp_seq=2 ttl=54 time=30.8 ms
```

```
--- z-p42-instagram.c10r.facebook.com ping statistics ---
```

```
2 packets transmitted, 2 received, 0% packet loss, time 5090ms
rtt min/avg/max/mdev = 30.875/30.890/30.905/0.015 ms
```

```
[17k61a05f5@online ~]$
```

```
[17k61a05f5@online ~]$ ping -i 3 -c 4 marvel.com
```

```
PING marvel.com (72.32.138.96) 56(84) bytes of data.
64 bytes from 72.32.138.96: icmp_seq=1 ttl=239 time=281 ms
64 bytes from 72.32.138.96: icmp_seq=3 ttl=239 time=282 ms
64 bytes from 72.32.138.96: icmp_seq=4 ttl=239 time=284 ms
```

```
--- marvel.com ping statistics ---
```

```
4 packets transmitted, 3 received, 25% packet loss, time 11607ms
rtt min/avg/max/mdev = 281.482/282.847/284.736/1.445 ms
```

```
[17k61a05f5@online ~]$
```



```
vinay@jarvis:~$ whois instagram.com
Domain Name: INSTAGRAM.COM
Registry Domain ID: 121748357_DOMAIN_COM-VRSN
Registrar WHOIS Server: whois.registrarsafe.com
Registrar URL: http://www.registrarsafe.com
Updated Date: 2018-03-01T19:43:29Z
Creation Date: 2004-06-04T13:37:18Z
Registry Expiry Date: 2027-06-04T13:37:18Z
Registrar: RegistrarSafe, LLC
Registrar IANA ID: 3237
Registrar Abuse Contact Email: abusecomplaints@registrarsafe.com
Registrar Abuse Contact Phone: +1-650-308-7004
Domain Status: clientDeleteProhibited https://icann.org/epp#clientDeleteProhibited
Domain Status: clientTransferProhibited https://icann.org/epp#clientTransferProhibited
Domain Status: clientUpdateProhibited https://icann.org/epp#clientUpdateProhibited
Domain Status: serverDeleteProhibited https://icann.org/epp#serverDeleteProhibited
Domain Status: serverTransferProhibited https://icann.org/epp#serverTransferProhibited
Domain Status: serverUpdateProhibited https://icann.org/epp#serverUpdateProhibited
Name Server: NS-1349.AWSDNS-40.ORG
Name Server: NS-2016.AWSDNS-60.CO.UK
Name Server: NS-384.AWSDNS-48.COM
Name Server: NS-868.AWSDNS-44.NET
DNSSEC: unsigned
URL of the ICANN Whois Inaccuracy Complaint Form: https://www.icann.org/wicf/
```

```
vinay@jarvis:~$ whois facebook.com
Domain Name: FACEBOOK.COM
Registry Domain ID: 2320948_DOMAIN_COM-VRSN
Registrar WHOIS Server: whois.registrarsafe.com
Registrar URL: http://www.registrarsafe.com
Updated Date: 2019-10-17T18:52:06Z
Creation Date: 1997-03-29T05:00:00Z
Registry Expiry Date: 2028-03-30T04:00:00Z
Registrar: RegistrarSafe, LLC
Registrar IANA ID: 3237
Registrar Abuse Contact Email: abusecomplaints@registrarsafe.com
Registrar Abuse Contact Phone: +1-650-308-7004
Domain Status: clientDeleteProhibited https://icann.org/epp#clientDeleteProhibited
Domain Status: clientTransferProhibited https://icann.org/epp#clientTransferProhibited
Domain Status: clientUpdateProhibited https://icann.org/epp#clientUpdateProhibited
Domain Status: serverDeleteProhibited https://icann.org/epp#serverDeleteProhibited
Domain Status: serverTransferProhibited https://icann.org/epp#serverTransferProhibited
Domain Status: serverUpdateProhibited https://icann.org/epp#serverUpdateProhibited
Name Server: A.NS.FACEBOOK.COM
Name Server: B.NS.FACEBOOK.COM
DNSSEC: unsigned
URL of the ICANN Whois Inaccuracy Complaint Form: https://www.icann.org/wicf/
```

```
vinay@jarvis:~$ netstat -v
```

```
Active Internet connections (w/o servers)
```

Proto	Recv-Q	Send-Q	Local Address	Foreign Address	State
tcp	0	0	jarvis:42748	maa05s06-in-f10.1:https	ESTABLISHED
tcp	0	0	jarvis:42756	bom07s15-in-f14.1:https	ESTABLISHED
tcp	0	0	jarvis:34014	maa05s02-in-f10.1:https	ESTABLISHED
tcp	0	0	jarvis:33152	maa05s05-in-f14.1:https	ESTABLISHED
tcp	0	0	jarvis:34016	maa05s02-in-f10.1:https	ESTABLISHED
tcp	0	0	jarvis:45960	104.20.50.118:https	ESTABLISHED
tcp	0	0	jarvis:54652	bom05s10-in-f4.1e:https	ESTABLISHED
tcp	0	0	jarvis:33150	maa05s05-in-f14.1:https	ESTABLISHED
tcp	0	0	jarvis:54614	maa03s22-in-f174.:https	ESTABLISHED
tcp	0	0	localhost:44454	localhost:7337	ESTABLISHED

```
ftp> get package.json
local: package.json remote: package.json
200 PORT command successful
150 Opening BINARY mode data connection for package.json (1392 bytes)
226 Transfer complete
1392 bytes received in 0.00 secs (1.6209 MB/s)
ftp> █
```

```
vinay@jarvis:~$ netstat -e
Active Internet connections (w/o servers)
Proto Recv-Q Send-Q Local Address           Foreign Address          State      User      Inode
tcp        0      0 jarvis:33150           maa05s05-in-f14.1:https ESTABLISHED vinay     113872
tcp        0      0 localhost:44454         localhost:7337           ESTABLISHED daemon    52737
tcp        0      0 jarvis:52512           172.217.194.189:https   ESTABLISHED vinay     50215
tcp        0      0 jarvis:40678           maa05s09-in-f3.1e:https ESTABLISHED vinay     45997
tcp        0      0 jarvis:58266           ec2-54-69-196-86.:https ESTABLISHED vinay     75676
```

```
vinay@jarvis:~$ netstat -o -i
Kernel Interface table
Iface      MTU      RX-OK RX-ERR RX-DRP RX-OVR      TX-OK TX-ERR TX-DRP TX-OVR Flg
enp9s0     1500      0      0      0 0          0      0      0      0 BMU
lo         65536    15729      0      0 0        15729      0      0      0 LRU
wlp12s0    1500    121262      0      0 0         87610      0      0      0 BMRU
```

```
vinay@jarvis:~$ █
```

```
vinay@jarvis:~$ ftp ftp.siteieee.org
Connected to ftp.siteieee.org.
220 FTP Server ready.
Name (ftp.siteieee.org:vinay): u169460047.sitecsi.com
331 Password required for u169460047.sitecsi.com
Password:
230 User u169460047.sitecsi.com logged in
Remote system type is UNIX.
Using binary mode to transfer files.
ftp> █
```

```
vinay@jarvis:~$ netstat -n
Active Internet connections (w/o servers)
Proto Recv-Q Send-Q Local Address           Foreign Address          State
tcp        0      0 192.168.55.106:42748    172.217.163.202:443     ESTABLISHED
tcp        0      0 192.168.55.106:42756    172.217.27.206:443      TIME_WAIT
tcp        0      0 192.168.55.106:34014    172.217.163.74:443      ESTABLISHED
tcp        0      0 192.168.55.106:33152    172.217.163.174:443     ESTABLISHED
tcp        0      0 192.168.55.106:34016    172.217.163.74:443      ESTABLISHED
tcp        0      0 192.168.55.106:54652    216.58.203.132:443      TIME_WAIT
tcp        0      0 192.168.55.106:33150    172.217.163.174:443     ESTABLISHED
```

```
[17k61a05f5@online ~]$ traceroute -4 www.facebook.com
traceroute to www.facebook.com (157.240.16.35), 30 hops max, 40 byte packets
 1  172.168.0.254 (172.168.0.254)  0.750 ms  1.192 ms  0.709 ms
 2  172.168.0.7 (172.168.0.7)  0.378 ms  0.302 ms  0.284 ms
 3  117.211.106.161 (117.211.106.161)  11.228 ms  12.059 ms  12.524 ms
 4  (218.248.172.218)  22.668 ms  22.360 ms  21.986 ms
 5  (218.248.235.142)  30.557 ms  30.028 ms  *
 6  * * *
 7  * ae2.pr01.bom1.tfbnw.net (157.240.68.26)  47.275 ms  47.013 ms
 8  * * po101.psw02.bom1.tfbnw.net (157.240.33.239)  43.666 ms
 9  173.252.67.135 (173.252.67.135)  43.357 ms  173.252.67.53 (173.252.67.53)  43.567 ms
```

```
[17k61a05f5@online ~]$ traceroute -F google.com
traceroute to google.com (216.58.196.174), 30 hops max, 40 byte packets
 1  172.168.0.254 (172.168.0.254)  1.463 ms  1.573 ms  2.000 ms
 2  172.168.0.7 (172.168.0.7)  0.311 ms  0.315 ms  0.247 ms
 3  117.211.106.161 (117.211.106.161)  14.750 ms  14.509 ms  14.256 ms
 4  * * *
 5  * * *
 6  72.14.211.114 (72.14.211.114)  32.943 ms  34.129 ms  34.782 ms
 7  * 108.170.253.97 (108.170.253.97)  30.256 ms  108.170.253.113 (108.170.253.113)  29.633 ms
```

```
[17k61a05f5@online ~]$ traceroute -4 172.168.2.52
traceroute to 172.168.2.52 (172.168.2.52), 30 hops
 1  * * *
 2  * * *
 3  * * *
 4  * * *
 5  * * *
 6  * * *
 7  * * *
```