

# Networks Laboratory - Assignment 1

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B190703CS

CSE-B

## 1. ping

```
Muhammed_B190703CS: ~
Muhammed_B190703CS:~$ ping google.com
PING google.com (142.250.185.46) 56(84) bytes of data.
64 bytes from mct01s19-in-f14.1e100.net (142.250.185.46): icmp_seq=1 ttl=116 time=75.1 ms
64 bytes from mct01s19-in-f14.1e100.net (142.250.185.46): icmp_seq=2 ttl=116 time=19.7 ms
64 bytes from mct01s19-in-f14.1e100.net (142.250.185.46): icmp_seq=3 ttl=116 time=20.4 ms
64 bytes from mct01s19-in-f14.1e100.net (142.250.185.46): icmp_seq=4 ttl=116 time=24.1 ms
64 bytes from mct01s19-in-f14.1e100.net (142.250.185.46): icmp_seq=5 ttl=116 time=19.1 ms
64 bytes from mct01s19-in-f14.1e100.net (142.250.185.46): icmp_seq=6 ttl=116 time=23.6 ms
^C
--- google.com ping statistics ---
6 packets transmitted, 6 received, 0% packet loss, time 5037ms
rtt min/avg/max/mdev = 19.084/30.320/75.138/20.131 ms
Muhammed_B190703CS:~$ ping -c 3 google.com
PING google.com (142.250.185.46) 56(84) bytes of data.
64 bytes from mct01s19-in-f14.1e100.net (142.250.185.46): icmp_seq=1 ttl=116 time=19.3 ms
64 bytes from mct01s19-in-f14.1e100.net (142.250.185.46): icmp_seq=2 ttl=116 time=24.8 ms
64 bytes from mct01s19-in-f14.1e100.net (142.250.185.46): icmp_seq=3 ttl=116 time=21.3 ms

--- google.com ping statistics ---
3 packets transmitted, 3 received, 0% packet loss, time 2010ms
rtt min/avg/max/mdev = 19.347/21.805/24.791/2.253 ms
Muhammed_B190703CS:~$
```

## 2. tracert / traceroute

```
Muhammed_B190703CS: ~
Muhammed_B190703CS:~$ traceroute -I google.com
traceroute to google.com (172.217.18.142), 30 hops max, 60 byte packets
 1 _gateway (10.0.2.2) 0.446 ms 0.409 ms 0.400 ms
 2 192.168.1.1 (192.168.1.1) 5.931 ms 6.078 ms 6.071 ms
 3 10.64.0.3 (10.64.0.3) 6.063 ms 6.270 ms 6.261 ms
 4 10.200.204.99 (10.200.204.99) 6.252 ms 6.294 ms 7.021 ms
 5 10.200.204.100 (10.200.204.100) 7.136 ms 7.411 ms 7.583 ms
 6 10.200.204.90 (10.200.204.90) 7.571 ms 5.197 ms 5.227 ms
 7 * * *
 8 212.70.97.144 (212.70.97.144) 20.672 ms 20.667 ms 21.024 ms
 9 216.239.41.109 (216.239.41.109) 20.385 ms 20.652 ms 20.648 ms
10 172.253.51.137 (172.253.51.137) 22.686 ms 22.783 ms 22.778 ms
11 mct01s09-in-f14.1e100.net (172.217.18.142) 21.799 ms 21.967 ms 22.407 ms
Muhammed_B190703CS:~$
```

### 3. ip / ifconfig / ipconfig

```
Muhammed_B190703CS: ~
Muhammed_B190703CS:~$ ip addr show
1: lo: <LOOPBACK,UP,LOWER_UP> mtu 65536 qdisc noqueue state UNKNOWN group default qlen 1000
    link/loopback 00:00:00:00:00:00 brd 00:00:00:00:00:00
    inet 127.0.0.1/8 scope host lo
        valid_lft forever preferred_lft forever
    inet6 ::1/128 scope host
        valid_lft forever preferred_lft forever
2: enp0s3: <BROADCAST,MULTICAST,UP,LOWER_UP> mtu 1500 qdisc fq_codel state UP group default qlen 1000
    link/ether 08:00:27:f6:08:a2 brd ff:ff:ff:ff:ff:ff
    inet 10.0.2.15/24 brd 10.0.2.255 scope global dynamic noprefixroute enp0s3
        valid_lft 81793sec preferred_lft 81793sec
    inet6 fe80::cc24:a833:eb68:69b3/64 scope link noprefixroute
        valid_lft forever preferred_lft forever
Muhammed_B190703CS:~$ ip -4 a show
1: lo: <LOOPBACK,UP,LOWER_UP> mtu 65536 qdisc noqueue state UNKNOWN group default qlen 1000
    inet 127.0.0.1/8 scope host lo
        valid_lft forever preferred_lft forever
2: enp0s3: <BROADCAST,MULTICAST,UP,LOWER_UP> mtu 1500 qdisc fq_codel state UP group default qlen 1000
    inet 10.0.2.15/24 brd 10.0.2.255 scope global dynamic noprefixroute enp0s3
        valid_lft 81784sec preferred_lft 81784sec
Muhammed_B190703CS:~$ ip -6 a show
1: lo: <LOOPBACK,UP,LOWER_UP> mtu 65536 state UNKNOWN qlen 1000
    inet6 ::1/128 scope host
        valid_lft forever preferred_lft forever
2: enp0s3: <BROADCAST,MULTICAST,UP,LOWER_UP> mtu 1500 state UP qlen 1000
    inet6 fe80::cc24:a833:eb68:69b3/64 scope link noprefixroute
        valid_lft forever preferred_lft forever
Muhammed_B190703CS:~$ ip a show dev lo
1: lo: <LOOPBACK,UP,LOWER_UP> mtu 65536 qdisc noqueue state UNKNOWN group default qlen 1000
    link/loopback 00:00:00:00:00:00 brd 00:00:00:00:00:00
    inet 127.0.0.1/8 scope host lo
        valid_lft forever preferred_lft forever
    inet6 ::1/128 scope host
        valid_lft forever preferred_lft forever
Muhammed_B190703CS:~$
```

### 4. dig / nslookup / host

```
Muhammed_B190703CS: ~
Muhammed_B190703CS:~$ dig google.com

; <<>> DiG 9.16.1-Ubuntu <<>> google.com
;; global options: +cmd
;; Got answer:
;; ->>HEADER<<- opcode: QUERY, status: NOERROR, id: 20443
;; flags: qr rd ra; QUERY: 1, ANSWER: 1, AUTHORITY: 0, ADDITIONAL: 1

;; OPT PSEUDOSECTION:
; EDNS: version: 0, flags:; udp: 65494
;; QUESTION SECTION:
;google.com.                IN      A

;; ANSWER SECTION:
google.com.                 300     IN      A       172.217.18.142

;; Query time: 7 msec
;; SERVER: 127.0.0.53#53(127.0.0.53)
;; WHEN: 2022 03+ 18:34:39 16 لڤ ح
;; MSG SIZE rcvd: 55
```

```

Muhammed_B190703CS:~$ dig google.com ANY

; <<>> DiG 9.16.1-Ubuntu <<>> google.com ANY
;; global options: +cmd
;; Got answer:
;; ->HEADER<- opcode: QUERY, status: NOERROR, id: 31642
;; flags: qr rd ra; QUERY: 1, ANSWER: 12, AUTHORITY: 0, ADDITIONAL: 1

;; OPT PSEUDOSECTION:
; EDNS: version: 0, flags:; udp: 65494
;; QUESTION SECTION:
;google.com.                IN      ANY

;; ANSWER SECTION:
google.com.                291     IN      A       172.217.18.142
google.com.                152     IN      AAAA    2a00:1450:4018:809::200e
google.com.                536     IN      MX      50 alt4.aspmx.l.google.com.
google.com.                536     IN      MX      20 alt1.aspmx.l.google.com.
google.com.                536     IN      MX      10 aspmx.l.google.com.
google.com.                536     IN      MX      40 alt3.aspmx.l.google.com.
google.com.                536     IN      MX      30 alt2.aspmx.l.google.com.
google.com.                49      IN      SOA     ns1.google.com. dns-admin.google.com. 422014924
900 900 1800 60
google.com.                295009  IN      NS      ns2.google.com.
google.com.                295009  IN      NS      ns4.google.com.
google.com.                295009  IN      NS      ns1.google.com.
google.com.                295009  IN      NS      ns3.google.com.

;; Query time: 7 msec
;; SERVER: 127.0.0.53#53(127.0.0.53)
;; WHEN: 2022 03+ 18:34:48 16 لڤ ح
;; MSG SIZE rcvd: 309

Muhammed_B190703CS:~$

```

## 5. whois

```

Muhammed_B190703CS:~$ whois google.com
Domain Name: GOOGLE.COM
Registry Domain ID: 2138514_DOMAIN_COM-VRSN
Registrar WHOIS Server: whois.markmonitor.com
Registrar URL: http://www.markmonitor.com
Updated Date: 2019-09-09T15:39:04Z
Creation Date: 1997-09-15T04:00:00Z
Registry Expiry Date: 2028-09-14T04:00:00Z
Registrar: MarkMonitor Inc.
Registrar IANA ID: 292
Registrar Abuse Contact Email: abusecomplaints@markmonitor.com
Registrar Abuse Contact Phone: +1.2083895740
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: NS1.GOOGLE.COM
Name Server: NS2.GOOGLE.COM
Name Server: NS3.GOOGLE.COM
Name Server: NS4.GOOGLE.COM
DNSSEC: unsigned
URL of the ICANN Whois Inaccuracy Complaint Form: https://www.icann.org/wicf/
>>> Last update of whois database: 2022-01-16T07:25:26Z <<<

For more information on Whois status codes, please visit https://icann.org/epp

NOTICE: The expiration date displayed in this record is the date the
registrar's sponsorship of the domain name registration in the registry is
currently set to expire. This date does not necessarily reflect the expiration
date of the domain name registrant's agreement with the sponsoring
registrar. Users may consult the sponsoring registrar's Whois database to
view the registrar's reported date of expiration for this registration.

```

TERMS OF USE: You are not authorized to access or query our Whois database through the use of electronic processes that are high-volume and automated except as reasonably necessary to register domain names or modify existing registrations; the Data in VeriSign Global Registry Services' ("VeriSign") Whois database is provided by VeriSign for information purposes only, and to assist persons in obtaining information about or related to a domain name registration record. VeriSign does not guarantee its accuracy. By submitting a Whois query, you agree to abide by the following terms of use: You agree that you may use this Data only for lawful purposes and that under no circumstances will you use this Data to: (1) allow, enable, or otherwise support the transmission of mass unsolicited, commercial advertising or solicitations via e-mail, telephone, or facsimile; or (2) enable high volume, automated, electronic processes that apply to VeriSign (or its computer systems). The compilation, repackaging, dissemination or other use of this Data is expressly prohibited without the prior written consent of VeriSign. You agree not to use electronic processes that are automated and high-volume to access or query the Whois database except as reasonably necessary to register domain names or modify existing registrations. VeriSign reserves the right to restrict your access to the Whois database in its sole discretion to ensure operational stability. VeriSign may restrict or terminate your access to the Whois database for failure to abide by these terms of use. VeriSign reserves the right to modify these terms at any time.

The Registry database contains ONLY .COM, .NET, .EDU domains and Registrars.

Domain Name: google.com

Registry Domain ID: 2138514\_DOMAIN\_COM-VRSN

Registrar WHOIS Server: whois.markmonitor.com

Registrar URL: <http://www.markmonitor.com>

Updated Date: 2019-09-09T15:39:04+0000

Creation Date: 1997-09-15T07:00:00+0000

Registrar Registration Expiration Date: 2028-09-13T07:00:00+0000

Registrar: MarkMonitor, Inc.

Registrar IANA ID: 292

Registrar Abuse Contact Email: [abusecomplaints@markmonitor.com](mailto:abusecomplaints@markmonitor.com)

Registrar Abuse Contact Phone: +1.2083895770

Domain Status: clientUpdateProhibited (<https://www.icann.org/epp#clientUpdateProhibited>)

Domain Status: clientTransferProhibited (<https://www.icann.org/epp#clientTransferProhibited>)

Domain Status: clientDeleteProhibited (<https://www.icann.org/epp#clientDeleteProhibited>)

Domain Status: serverUpdateProhibited (<https://www.icann.org/epp#serverUpdateProhibited>)

Domain Status: serverTransferProhibited (<https://www.icann.org/epp#serverTransferProhibited>)

Domain Status: serverDeleteProhibited (<https://www.icann.org/epp#serverDeleteProhibited>)

Registrant Organization: Google LLC

Registrant State/Province: CA

Registrant Country: US

Registrant Email: Select Request Email Form at <https://domains.markmonitor.com/whois/google.com>

Admin Organization: Google LLC

Admin State/Province: CA

Admin Country: US

Admin Email: Select Request Email Form at <https://domains.markmonitor.com/whois/google.com>

Tech Organization: Google LLC

Tech State/Province: CA

Tech Country: US

Tech Email: Select Request Email Form at <https://domains.markmonitor.com/whois/google.com>

Name Server: ns2.google.com

Name Server: ns1.google.com

Name Server: ns4.google.com

Name Server: ns3.google.com

DNSSEC: unsigned

URL of the ICANN WHOIS Data Problem Reporting System: <http://wdprs.internic.net/>

>>> Last update of WHOIS database: 2022-01-16T10:11:08+0000 <<<

For more information on WHOIS status codes, please visit:

<https://www.icann.org/resources/pages/epp-status-codes>

If you wish to contact this domain's Registrant, Administrative, or Technical contact, and such email address is not visible above, you may do so via our web form, pursuant to ICANN's Temporary Specification. To verify that you are not a robot, please enter your email address to receive a link to a page that facilitates email communication with the relevant contact(s).

Web-based WHOIS:

<https://domains.markmonitor.com/whois>

If you have a legitimate interest in viewing the non-public WHOIS details, send your request and the reasons for your request to [whoisrequest@markmonitor.com](mailto:whoisrequest@markmonitor.com) and specify the domain name in the subject line. We will review that request and may ask for supporting documentation and explanation.



The data in MarkMonitor's WHOIS database is provided for information purposes, and to assist persons in obtaining information about or related to a domain name's registration record. While MarkMonitor believes the data to be accurate, the data is provided "as is" with no guarantee or warranties regarding its accuracy.

By submitting a WHOIS query, you agree that you will use this data only for lawful purposes and that, under no circumstances will you use this data to:

- (1) allow, enable, or otherwise support the transmission by email, telephone, or facsimile of mass, unsolicited, commercial advertising, or spam; or
- (2) enable high volume, automated, or electronic processes that send queries, data, or email to MarkMonitor (or its systems) or the domain name contacts (or its systems).

MarkMonitor reserves the right to modify these terms at any time.

By submitting this query, you agree to abide by this policy.

MarkMonitor Domain Management(TM)  
Protecting companies and consumers in a digital world.

Visit MarkMonitor at <https://www.markmonitor.com>  
Contact us at +1.8007459229  
In Europe, at +44.02032062220  
--

Muhammed\_B190703CS:~\$

## 6. route

```
Muhammed_B190703CS: ~  
Muhammed_B190703CS:~$ route  
Kernel IP routing table  
Destination      Gateway         Genmask         Flags Metric Ref    Use Iface  
default          _gateway       0.0.0.0         UG    100    0      0 enp0s3  
link-local       0.0.0.0        255.255.0.0     U     1000   0      0 enp0s3  
192.168.1.0      0.0.0.0        255.255.255.0   U     100    0      0 enp0s3  
Muhammed_B190703CS:~$
```

## 7. tcpdump

```
Muhammed_B190703CS: ~  
Muhammed_B190703CS:~$ sudo tcpdump -c 10 -i enp0s3  
tcpdump: verbose output suppressed, use -v or -vv for full protocol decode  
listening on enp0s3, link-type EN10MB (Ethernet), capture size 262144 bytes  
13:48:02.191393 IP MuhammedB190703CS.46840 > arn09s05-in-f14.1e100.net.https: Flags [..], ack 794  
95243, win 62780, length 0  
13:48:02.191432 IP MuhammedB190703CS.46842 > arn09s05-in-f14.1e100.net.https: Flags [..], ack 796  
23243, win 62780, length 0  
13:48:02.191440 IP MuhammedB190703CS.32792 > server-13-227-9-55.bah53.r.cloudfront.net.https: FL  
ags [..], ack 78406571, win 62780, length 0  
13:48:02.191446 IP MuhammedB190703CS.38494 > mct01s19-in-f1.1e100.net.https: Flags [..], ack 7924  
0102, win 62780, length 0  
13:48:02.191802 IP arn09s05-in-f14.1e100.net.https > MuhammedB190703CS.46840: Flags [..], ack 1,  
win 65535, length 0  
13:48:02.191814 IP arn09s05-in-f14.1e100.net.https > MuhammedB190703CS.46842: Flags [..], ack 1,  
win 65535, length 0  
13:48:02.191817 IP server-13-227-9-55.bah53.r.cloudfront.net.https > MuhammedB190703CS.32792: FL  
ags [..], ack 1, win 65535, length 0  
13:48:02.191820 IP mct01s19-in-f1.1e100.net.https > MuhammedB190703CS.38494: Flags [..], ack 1, w  
in 65535, length 0  
13:48:02.192302 IP MuhammedB190703CS.41383 > 192.168.1.1.domain: 41847+ PTR? 142.209.58.216.in-a  
ddr.arpa. (45)  
13:48:02.201833 IP 192.168.1.1.domain > MuhammedB190703CS.41383: 41847 3/0/0 PTR arn09s05-in-f14  
.1e100.net., PTR arn09s05-in-f142.1e100.net., PTR mct01s13-in-f14.1e100.net. (145)  
10 packets captured  
14 packets received by filter  
0 packets dropped by kernel  
Muhammed_B190703CS:~$
```

## 8. netstat / ss

```
Muhammed_B190703CS: ~
Muhammed_B190703CS:~$ ss -u
Recv-Q Send-Q Local Address:Port Peer Address:Port Process
0 0 10.0.2.15%enp0s3:bootpc 10.0.2.2:bootps
Muhammed_B190703CS:~$ ss -l
Netid State Recv-Q Send-Q Local Address:Port Peer Address:Port Process
nl UNCONN 0 0 * * * rtnl:systemd-resolve/586
nl UNCONN 0 0 * * * rtnl:evolution-calen/1434
nl UNCONN 0 0 * * * rtnl:evolution-sourc/1419
nl UNCONN 0 0 * * * rtnl:xdg-desktop-por/1798
nl UNCONN 0 0 * * * rtnl:evolution-addre/1448
nl UNCONN 0 0 * * * rtnl:NetworkManager/641
nl UNCONN 0 0 * * * rtnl:kernel
nl UNCONN 0 0 * * * rtnl:whoopsie/817
nl UNCONN 0 0 * * * rtnl:avahi-daemon/634
nl UNCONN 0 0 * * * rtnl:goa-daemon/1093
nl UNCONN 0 0 * * * rtnl:chrome/2886
nl UNCONN 0 0 * * * rtnl:chrome/2839
nl UNCONN 0 0 * * * rtnl:chrome/2886
nl UNCONN 0 0 * * * rtnl:chrome/2839
* 0 * 35908
u_dgr UNCONN 0 0 * 0 * 21816
u_dgr UNCONN 0 0 * 21815 * 32277
u_dgr UNCONN 0 0 * 17687 * 21818
u_dgr UNCONN 0 0 * 21817 *:ipv6-icmp
icmp6 UNCONN 0 0 *:*
udp UNCONN 0 0 0.0.0.0:* 0.0.0.0:631
udp UNCONN 0 0 0.0.0.0:* 0.0.0.0:mdns
udp UNCONN 0 0 0.0.0.0:* 0.0.0.0:55014
udp UNCONN 0 0 0.0.0.0:* 127.0.0.53%lo:domain
udp UNCONN 0 0 0.0.0.0:* [::]:mdns
udp UNCONN 0 0 [::]:* [::]:40760
udp UNCONN 0 0 [::]:* [fe80::cc24:a833:eb68:69b3]%enp0s3:dhcpv6-client
tcp LISTEN 0 4096 [::]:* 127.0.0.53%lo:domain
tcp LISTEN 0 5 0.0.0.0:* 127.0.0.1:ipp
tcp LISTEN 0 5 0.0.0.0:* [::1]:ipp
Muhammed_B190703CS:~$^C
```

## 9. dstat

```
Muhammed_B190703CS: ~
Muhammed_B190703CS:~$ dstat
You did not select any stats, using -cdngy by default.
--total-cpu-usage-- -dsk/total- -net/total- ---paging-- ---system--
usr sys idl wai stl | _read_ |_writ_|_recv_|_send_|_in_|_out_|_int_|_csw_|
0 0 99 0 0 | 224k | 66k | 0 | 0 | 0 | 0 | 184 | 309 |
0 0 100 0 0 | 0 | 0 | 0 | 0 | 0 | 0 | 214 | 321 |
2 1 96 0 0 | 0 | 0 | 0 | 0 | 0 | 0 | 918 | 2123 |
1 1 98 0 0 | 0 | 56k | 0 | 0 | 0 | 0 | 477 | 841 |
1 0 99 0 0 | 0 | 64k | 0 | 0 | 0 | 0 | 339 | 652 |
1 0 99 0 0 | 0 | 0 | 0 | 0 | 0 | 0 | 677 | 1301 |
1 0 99 0 0 | 0 | 0 | 0 | 0 | 0 | 0 | 455 | 920 |
0 0 99 0 0 | 0 | 76k | 0 | 0 | 0 | 0 | 222 | 411 ^C

Muhammed_B190703CS:~$ dstat -c --top-cpu
/usr/bin/dstat:2619: DeprecationWarning: the imp module is deprecated in favour of importlib; see
the module's documentation for alternative uses
import imp
--total-cpu-usage-- -most-expensive-
usr sys idl wai stl | _cpu_process_
0 0 99 0 0 | gnome-shell 0.1
0 0 100 0 0 |
1 1 99 0 0 | gnome-shell 0.5
0 0 100 0 0 | Xorg 0.2
0 0 99 0 0 | Xorg 0.2
1 0 99 0 0 | VBoxClient 0.5
0 0 99 0 0 | gnome-shell 0.2
0 0 100 0 0 | gnome-shell 0.2
1 0 99 0 0 | gnome-shell 0.2 ^C

Muhammed_B190703CS:~$ dstat -c --top-mem
/usr/bin/dstat:2619: DeprecationWarning: the imp module is deprecated in favour of importlib; see
the module's documentation for alternative uses
import imp
--total-cpu-usage-- -most-expensive-
usr sys idl wai stl | _memory_process_
0 0 99 0 0 | gnome-shell 393M
1 0 99 0 0 | gnome-shell 393M
1 0 99 0 0 | gnome-shell 393M
1 0 99 0 0 | gnome-shell 393M
0 0 100 0 0 | gnome-shell 393M
0 0 100 0 0 | gnome-shell 393M
0 0 99 0 0 | gnome-shell 393M
1 0 99 0 0 | gnome-shell 393M
1 0 99 0 0 | gnome-shell 393M ^C
Muhammed_B190703CS:~$
```

## 10. ifstat

```
Muhammed_B190703CS: ~
Muhammed_B190703CS:~$ ifstat
enp0s3
KB/s in KB/s out
0.00 0.00
19.81 1.18
118.00 11.88
47.40 5.51
451.71 37.42
2193.16 91.24
337.66 43.66
1030.98 10.15
0.00 0.00
^C
Muhammed_B190703CS:~$
```

## 11. wget

```
Muhammed_B190703CS: ~  
Muhammed_B190703CS:~$ wget -O task-tracker.zip --limit-rate=1m https://github.com/jasseeem/Task-Tracker/archive/refs/heads/master.zip  
--2022-01-16 14:02:14-- https://github.com/jasseeem/Task-Tracker/archive/refs/heads/master.zip  
Resolving github.com (github.com)... 13.234.176.102  
Connecting to github.com (github.com)|13.234.176.102|:443... connected.  
HTTP request sent, awaiting response... 302 Found  
Location: https://codeload.github.com/jasseeem/Task-Tracker/zip/refs/heads/master [following]  
--2022-01-16 14:02:14-- https://codeload.github.com/jasseeem/Task-Tracker/zip/refs/heads/master  
Resolving codeload.github.com (codeload.github.com)... 13.127.152.42  
Connecting to codeload.github.com (codeload.github.com)|13.127.152.42|:443... connected.  
HTTP request sent, awaiting response... 200 OK  
Length: unspecified [application/zip]  
Saving to: 'task-tracker.zip'  
  
task-tracker.zip          [      <=>          ] 393.98K   398KB/s   in 1.0s  
2022-01-16 14:02:17 (398 KB/s) - 'task-tracker.zip' saved [403438]  
  
Muhammed_B190703CS:~$
```

## 12. tracepath

```
Muhammed_B190703CS: ~  
Muhammed_B190703CS:~$ tracepath google.com  
1?: [LOCALHOST] pmtu 1492  
1: _gateway 24.108ms  
1: _gateway 2.784ms  
2: 10.64.0.3 4.842ms  
3: 10.200.204.98 8.294ms  
4: 10.200.204.100 6.538ms  
5: 10.200.204.90 5.299ms  
6: 212.70.97.145 4.376ms  
7: 212.70.97.146 22.811ms asymm 11  
8: no reply  
9: no reply  
10: no reply  
11: no reply  
^C
```