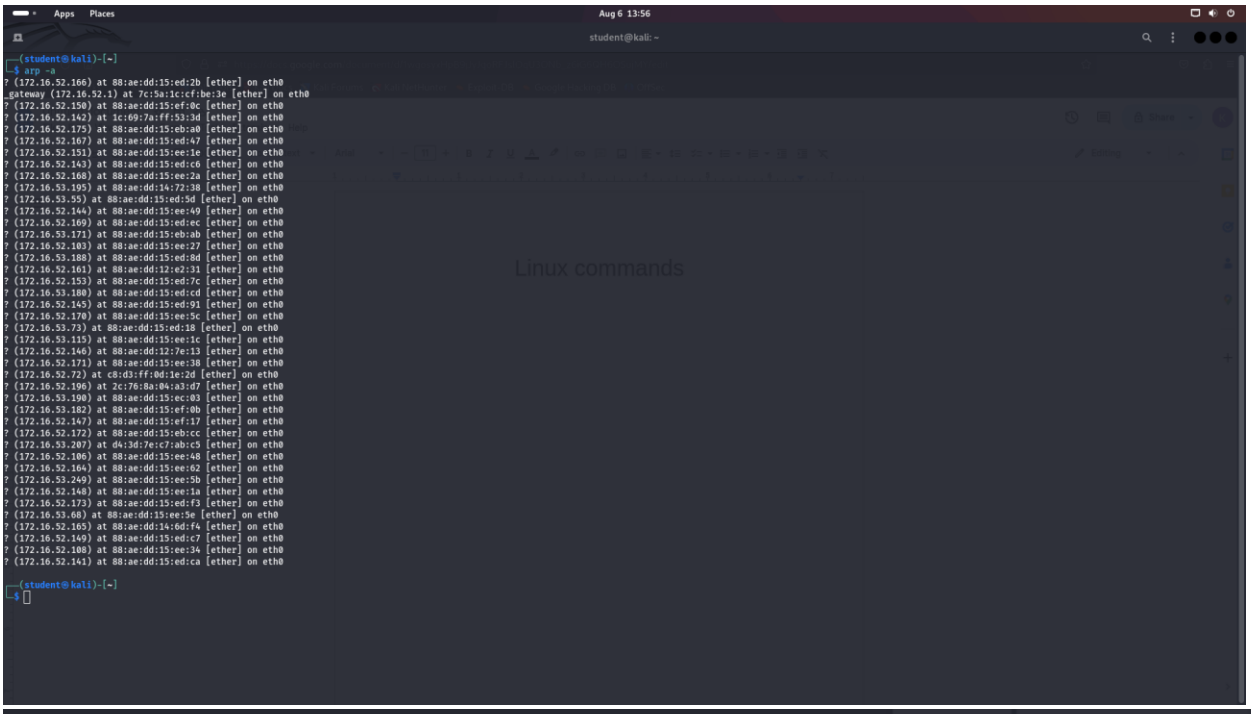
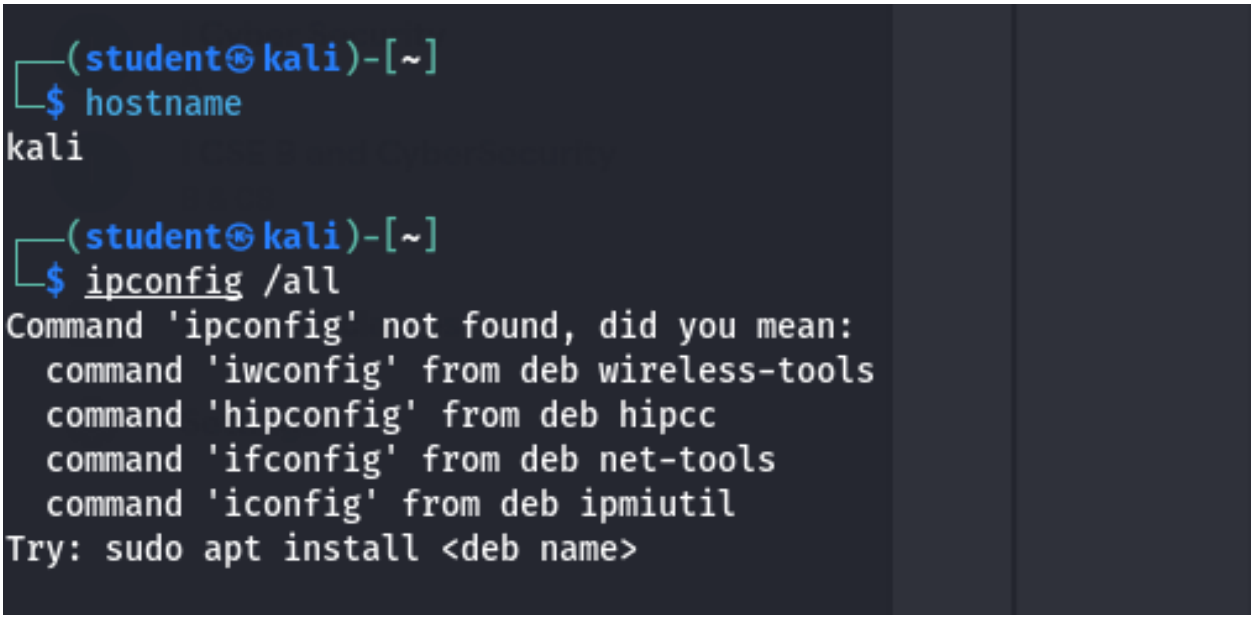
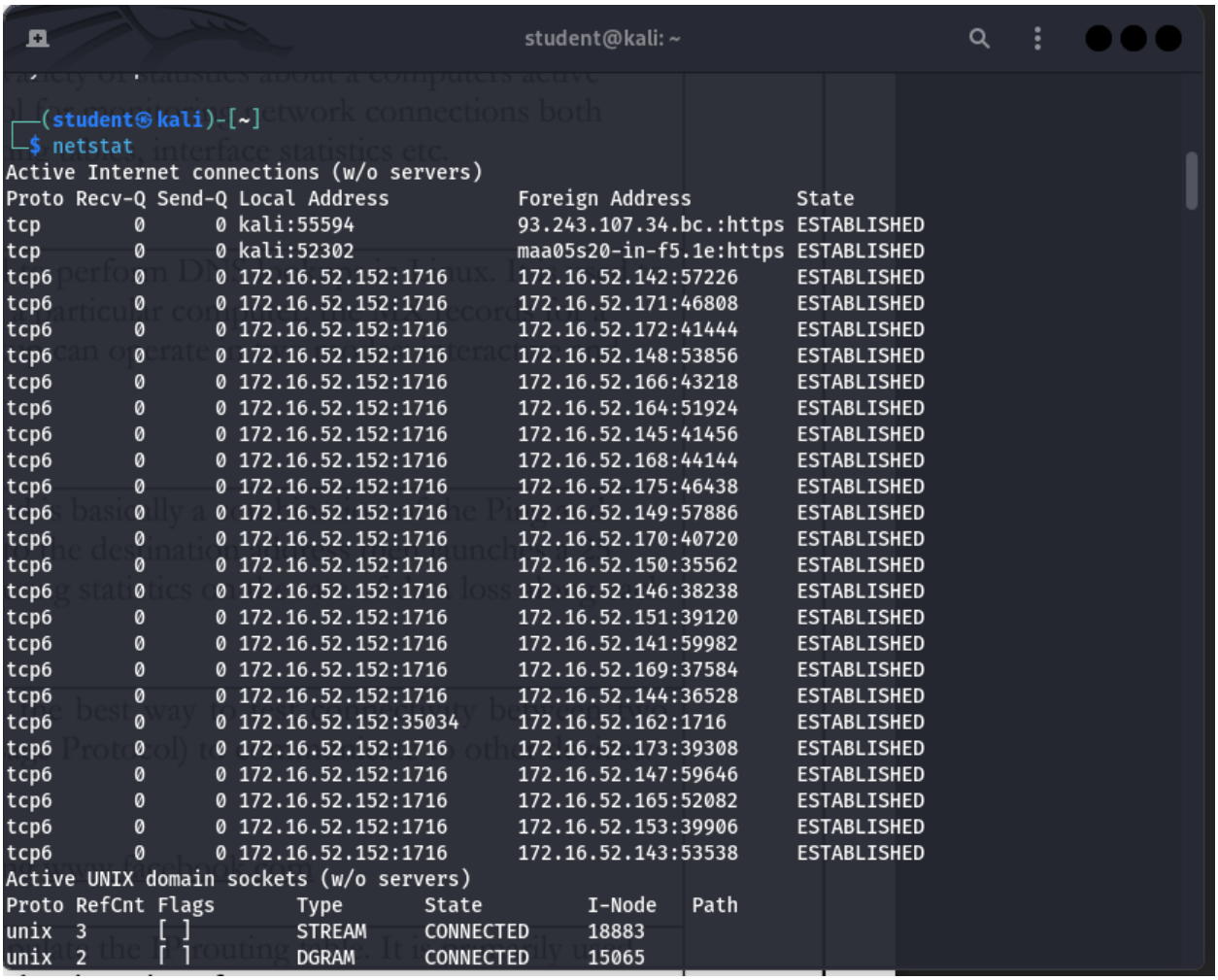
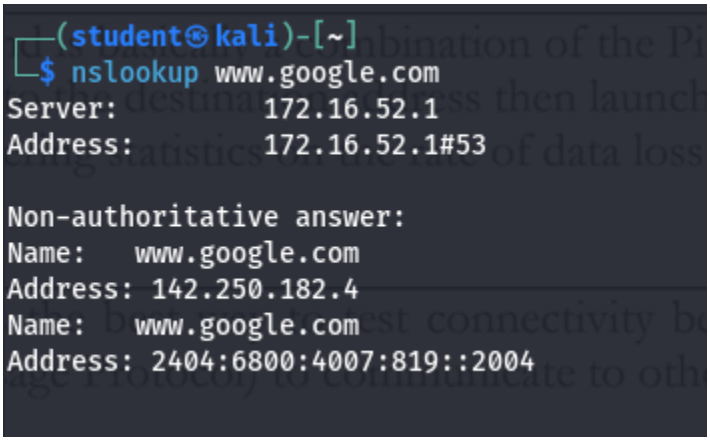
Linux commands





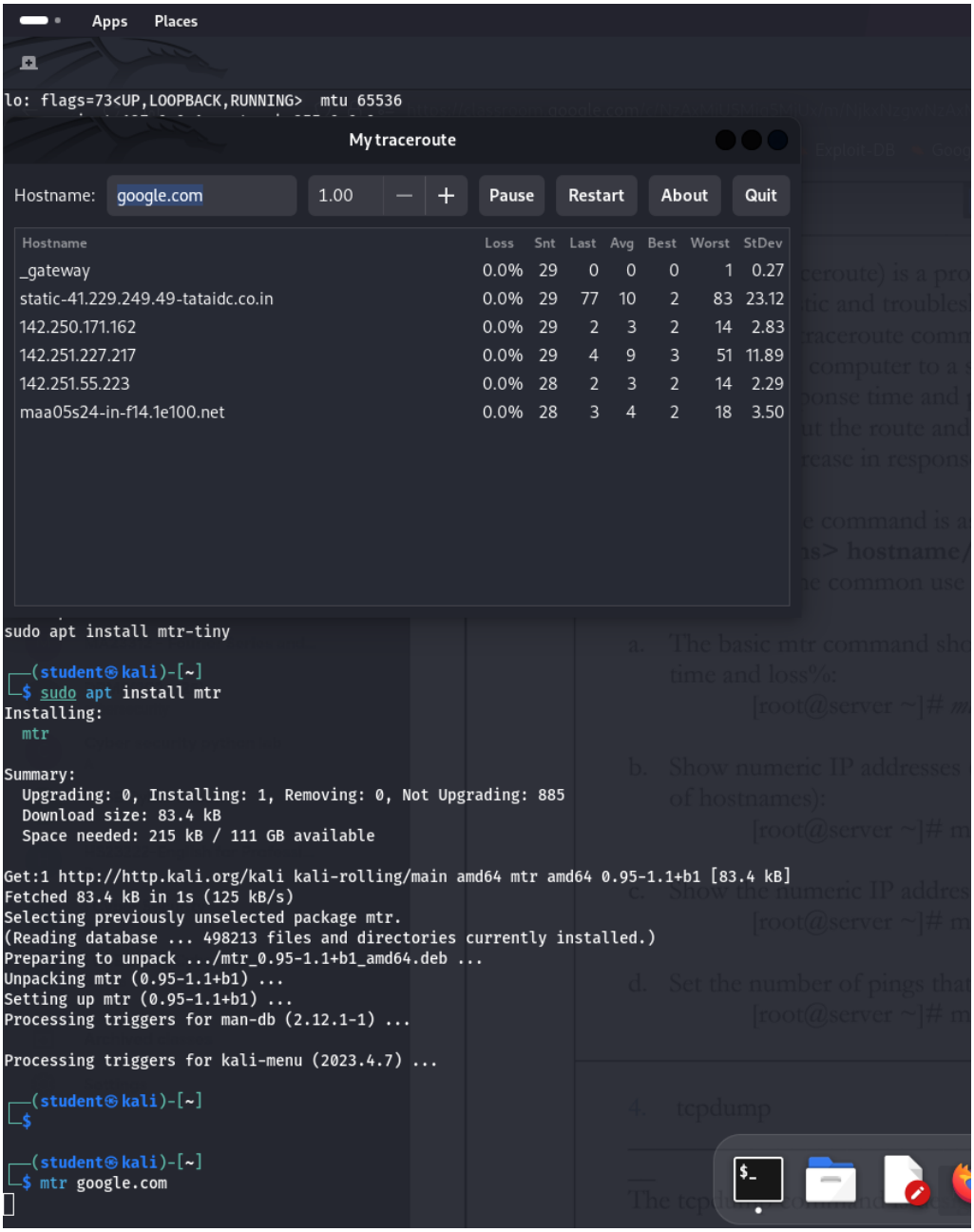

student@kali: ~
(student㉿kali)-[~]
$ netstat
Active Internet connections (w/o servers)
Proto Recv-Q Send-Q Local Address Foreign Address State
tcp 0 0 kali:55594 93.243.107.34.bc.:https ESTABLISHED
tcp 0 0 kali:52302 maa05s20-in-f5.1e:https ESTABLISHED
tcp6 0 0 172.16.52.152:1716 172.16.52.142:57226 ESTABLISHED
tcp6 0 0 172.16.52.152:1716 172.16.52.171:46808 ESTABLISHED
tcp6 0 0 172.16.52.152:1716 172.16.52.172:41444 ESTABLISHED
tcp6 0 0 172.16.52.152:1716 172.16.52.148:53856 ESTABLISHED
tcp6 0 0 172.16.52.152:1716 172.16.52.166:43218 ESTABLISHED
tcp6 0 0 172.16.52.152:1716 172.16.52.164:51924 ESTABLISHED
tcp6 0 0 172.16.52.152:1716 172.16.52.145:41456 ESTABLISHED
tcp6 0 0 172.16.52.152:1716 172.16.52.168:44144 ESTABLISHED
tcp6 0 0 172.16.52.152:1716 172.16.52.175:46438 ESTABLISHED
tcp6 0 0 172.16.52.152:1716 172.16.52.149:57886 ESTABLISHED
tcp6 0 0 172.16.52.152:1716 172.16.52.170:40720 ESTABLISHED
tcp6 0 0 172.16.52.152:1716 172.16.52.150:35562 ESTABLISHED
tcp6 0 0 172.16.52.152:1716 172.16.52.146:38238 ESTABLISHED
tcp6 0 0 172.16.52.152:1716 172.16.52.151:39120 ESTABLISHED
tcp6 0 0 172.16.52.152:1716 172.16.52.141:59982 ESTABLISHED
tcp6 0 0 172.16.52.152:1716 172.16.52.169:37584 ESTABLISHED
tcp6 0 0 172.16.52.152:1716 172.16.52.144:36528 ESTABLISHED
tcp6 0 0 172.16.52.152:35034 172.16.52.162:1716 ESTABLISHED
tcp6 0 0 172.16.52.152:1716 172.16.52.173:39308 ESTABLISHED
tcp6 0 0 172.16.52.152:1716 172.16.52.147:59646 ESTABLISHED
tcp6 0 0 172.16.52.152:1716 172.16.52.165:52082 ESTABLISHED
tcp6 0 0 172.16.52.152:1716 172.16.52.153:39906 ESTABLISHED
tcp6 0 0 172.16.52.152:1716 172.16.52.143:53538 ESTABLISHED
Active UNIX domain sockets (w/o servers)
Proto RefCnt Flags Type State I-Node Path
unix 3 [ ] STREAM CONNECTED 18883
unix 2 [ ] DGRAM CONNECTED 15065

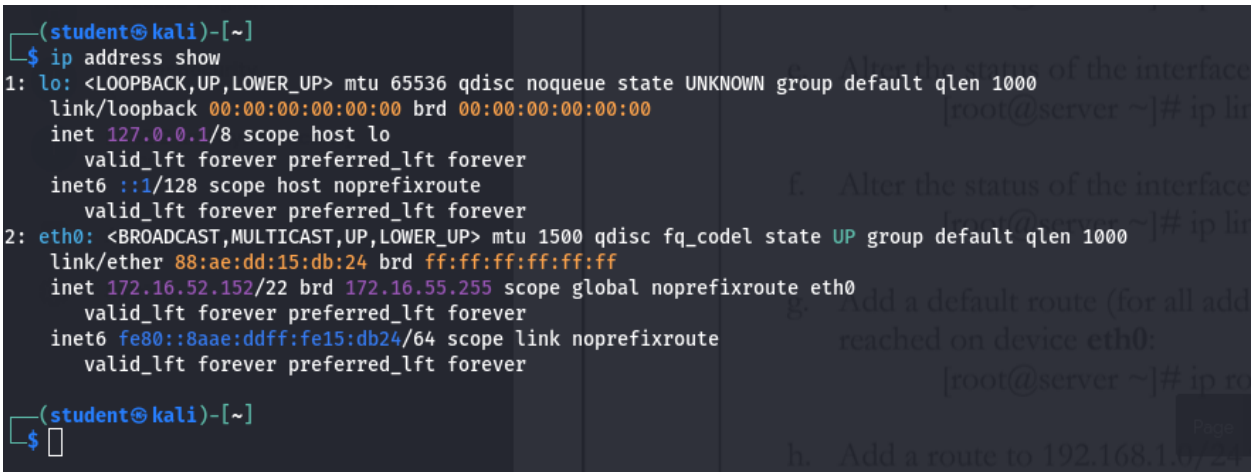

(student㉿kali)-[~]
$ nslookup www.google.com
Server: 172.16.52.1
Address: 172.16.52.1#53
Non-authoritative answer:
Name: www.google.com
Address: 142.250.182.4
Name: www.google.com
Address: 2404:6800:4007:819::2004

```
┌──(student㉿kali)-[~]
└─$ ping www.google.com
PING www.google.com (142.250.182.4) 56(84) bytes of data.
64 bytes from maa05s18-in-f4.1e100.net (142.250.182.4): icmp_seq=1 ttl=120 time=3.47 ms
64 bytes from maa05s18-in-f4.1e100.net (142.250.182.4): icmp_seq=2 ttl=120 time=3.93 ms
64 bytes from maa05s18-in-f4.1e100.net (142.250.182.4): icmp_seq=3 ttl=120 time=3.77 ms
64 bytes from maa05s18-in-f4.1e100.net (142.250.182.4): icmp_seq=4 ttl=120 time=3.57 ms
64 bytes from maa05s18-in-f4.1e100.net (142.250.182.4): icmp_seq=5 ttl=120 time=3.67 ms
64 bytes from maa05s18-in-f4.1e100.net (142.250.182.4): icmp_seq=6 ttl=120 time=3.55 ms
64 bytes from maa05s18-in-f4.1e100.net (142.250.182.4): icmp_seq=7 ttl=120 time=3.68 ms
64 bytes from maa05s18-in-f4.1e100.net (142.250.182.4): icmp_seq=8 ttl=120 time=3.94 ms
^C
--- www.google.com ping statistics ---
8 packets transmitted, 8 received, 0% packet loss, time 7013ms
rtt min/avg/max/mdev = 3.468/3.696/3.939/0.161 ms
```

```
┌──(student㉿kali)-[~]
└─$ ifconfig
eth0: flags=4163<UP,BROADCAST,RUNNING,MULTICAST>  mtu 1500
        inet 172.16.52.152  netmask 255.255.252.0  broadcast 172.16.55.255
        inet6 fe80::8aae:ddff:fe15:db24  prefixlen 64  scopeid 0x20<link>
        ether 88:ae:dd:15:db:24  txqueuelen 1000  (Ethernet)
        RX packets 100941  bytes 67340498 (64.2 MiB)
        RX errors 0  dropped 2214  overruns 0  frame 0
        TX packets 38235  bytes 10458587 (9.9 MiB)
        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 25  bytes 1520 (1.4 KiB)
        RX errors 0  dropped 0  overruns 0  frame 0
        TX packets 25  bytes 1520 (1.4 KiB)
        TX errors 0  dropped 0 overruns 0  carrier 0  collisions 0
```


Apps
Places
lo: flags=73<UP,LOOPBACK,RUNNING> mtu 65536
My traceroute
Hostname: google.com
1.00
Pause
Restart
About
Quit
Hostname Loss Snt Last Avg Best Worst StDev
_gateway 0.0% 29 0 0 0 1 0.27
static-41.229.249.49-tataidc.co.in 0.0% 29 77 10 2 83 23.12
142.250.171.162 0.0% 29 2 3 2 14 2.83
142.251.227.217 0.0% 29 4 9 3 51 11.89
142.251.55.223 0.0% 28 2 3 2 14 2.29
maa05s24-in-f14.1e100.net 0.0% 28 3 4 2 18 3.50
sudo apt install mtr-tiny
(student㉿kali)-[~]
$ sudo apt install mtr
Installing:
mtr
Summary:
Upgrading: 0, Installing: 1, Removing: 0, Not Upgrading: 885
Download size: 83.4 kB
Space needed: 215 kB / 111 GB available
Get:1 http://http.kali.org/kali kali-rolling/main amd64 mtr amd64 0.95-1.1+b1 [83.4 kB]
Fetched 83.4 kB in 1s (125 kB/s)
Selecting previously unselected package mtr.
(Reading database ... 498213 files and directories currently installed.)
Preparing to unpack .../mtr_0.95-1.1+b1_amd64.deb ...
Unpacking mtr (0.95-1.1+b1) ...
Setting up mtr (0.95-1.1+b1) ...
Processing triggers for man-db (2.12.1-1) ...
Processing triggers for kali-menu (2023.4.7) ...
(student㉿kali)-[~]
$
(student㉿kali)-[~]
$ mtr google.com


┌──(student㉿kali)-[~]
└─$ ip address 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 noprefixroute
valid_lft forever preferred_lft forever
2: eth0: <BROADCAST,MULTICAST,UP,LOWER_UP> mtu 1500 qdisc fq_codel state UP group default qlen 1000
link/ether 88:ae:dd:15:db:24 brd ff:ff:ff:ff:ff:ff
inet 172.16.52.152/22 brd 172.16.55.255 scope global noprefixroute eth0
valid_lft forever preferred_lft forever
inet6 fe80::8aae:ddff:fe15:db24/64 scope link noprefixroute
valid_lft forever preferred_lft forever
┌──(student㉿kali)-[~]
└─$