

```

student@ubuntu:~$ traceroute www.google.com
traceroute to www.google.com (142.250.192.132), 30 hops max, 60 byte packets
 1  _gateway (172.20.210.1)  0.718 ms  0.689 ms  0.675 ms
 2  * * *
 3  * * *
 4  * * *
 5  * * *
 6  * * *
 7  * * *
 8  * * *
 9  * * *
10  * * *
11  * * *
12  * * *
13  * * *
14  * * *
15  * * *
16  * * *
17  * * *
18  * * *
19  * * *
20  * * *
21  * * *
22  * * *
23  * * *
24  * * *
25  * * *
26  * * *
27  * * *
28  * * *
29  * * *
30  * * *

```

```

29  * * *
30  * * *
student@ubuntu:~$ dig www.wikipedia.org

;; <<>> DiG 9.16.1-Ubuntu <<>> www.wikipedia.org
;; global options: +cmd
;; Got answer:
;; ->HEADER<<- opcode: QUERY, status: NOERROR, id: 33345
;; flags: qr rd ra; QUERY: 1, ANSWER: 2, AUTHORITY: 0, ADDITIONAL: 1

;; OPT PSEUDOSECTION:
;; EDNS: version: 0, flags:; udp: 65494
;; QUESTION SECTION:
;www.wikipedia.org.          IN      A

;; ANSWER SECTION:
www.wikipedia.org.          17882   IN      CNAME   dyna.wikimedia.org.
dyna.wikimedia.org.         436     IN      A        103.102.166.224

;; Query time: 4 msec
;; SERVER: 127.0.0.53#53(127.0.0.53)
;; WHEN: Thu Sep 15 01:53:16 PDT 2022
;; MSG SIZE rcvd: 91

student@ubuntu:~$ w
01:55:26 up 46 min,  2 users,  load average: 0.00, 0.03, 0.06
USER  TTY      FROM          LOGIN@  IDLE   JCPU   PCPU WHAT
student :0                :0      01:09  ?xdm?  1:42   0.00s /usr/lib/gdm3/gdm-x-session --run-script env GNOME_SHELL_SESSION_MODE=ubuntu
student pts/1    172.20.210.139 01:17   30:14   0.07s  0.07s -bash

student@ubuntu:~$ whois
Usage: whois [OPTION]... OBJECT...

-h HOST, --host HOST      connect to server HOST
-p PORT, --port PORT      connect to PORT
-I                          query whois.iana.org and follow its referral
-H                          hide legal disclaimers

```

Activate Windows
Go to Settings to activate Windows.

```

Cancelled by signal 2...
student@ubuntu:~$ whois google.com
connect: Network is unreachable
student@ubuntu:~$ whois google.com
connect: Network is unreachable
student@ubuntu:~$ 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: +1.2086851750
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: 2022-09-15T09:00:41Z <<<

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

```

Activate Windows
Go to Settings to activate Windows.

```

student@ubuntu:~$ netstat
Active Internet connections (w/o servers)
Proto Recv-Q Send-Q Local Address           Foreign Address          State
tcp        0      0 ubuntu:33638           172.20.210.139:ssh       ESTABLISHED
tcp        0      0 ubuntu:50466           a104-115-39-72.dep:http ESTABLISHED
tcp        0      0 ubuntu:47684           server-18-66-53-1:https  TIME_WAIT
tcp        0      0 ubuntu:47656           server-18-66-53-1:https  TIME_WAIT
tcp        0      0 ubuntu:39048           82.221.107.34.bc.g:http  ESTABLISHED
tcp        0      0 ubuntu:59890           ec2-34-210-107-21:https  TIME_WAIT
tcp        0      0 ubuntu:47680           server-18-66-53-1:https  TIME_WAIT
tcp        0      0 ubuntu:50772           123.208.120.34.bc:https  ESTABLISHED
tcp        0      0 ubuntu:47730           server-18-66-53-1:https  ESTABLISHED
tcp        0      0 ubuntu:37334           117.18.237.29:http       ESTABLISHED
tcp        0      0 ubuntu:33704           239.237.117.34.bc:https  ESTABLISHED
tcp        0      0 ubuntu:47654           server-18-66-53-1:https  TIME_WAIT
tcp        0      0 ubuntu:50770           123.208.120.34.bc:https  TIME_WAIT
tcp        0      0 ubuntu:55638           ec2-44-225-20-201:https  TIME_WAIT
tcp        0      0 ubuntu:ssh             172.20.210.139:60790     ESTABLISHED
tcp        0      0 ubuntu:53952           102.115.120.34.bc:https  ESTABLISHED
tcp        0      0 ubuntu:50774           123.208.120.34.bc:https  TIME_WAIT
tcp        0      0 ubuntu:37346           117.18.237.29:http       ESTABLISHED
tcp        0      0 ubuntu:37336           117.18.237.29:http       ESTABLISHED
tcp        0      0 ubuntu:56880           ec2-44-238-202-79:https  TIME_WAIT
tcp        0      0 ubuntu:59888           ec2-34-210-107-21:https  ESTABLISHED
tcp        0      0 ubuntu:37332           117.18.237.29:http       ESTABLISHED
tcp        0      0 ubuntu:55636           ec2-44-225-20-201:https  TIME_WAIT
tcp        0      0 ubuntu:50470           a104-115-39-72.dep:http  ESTABLISHED
tcp        0      0 ubuntu:44346           server-108-159-80:https  ESTABLISHED
tcp        0      0 ubuntu:50648           76.237.120.34.bc.:https  TIME_WAIT
tcp        0      0 ubuntu:39046           82.221.107.34.bc.g:http  ESTABLISHED
tcp        0      0 ubuntu:47662           server-18-66-53-1:https  TIME_WAIT
tcp        0      0 ubuntu:56882           ec2-44-238-202-79:https  TIME_WAIT
tcp        0      0 ubuntu:50472           a104-115-39-72.dep:http  ESTABLISHED
tcp        0      0 ubuntu:47750           server-18-66-53-1:https  ESTABLISHED
tcp        0      0 ubuntu:50474           a104-115-39-72.dep:http  ESTABLISHED
tcp        0      0 ubuntu:50656           76.237.120.34.bc.:https  ESTABLISHED

```

```

unix 3      [ ]  STREAM  CONNECTED  21059
unix 3      [ ]  DGRAM    21017

student@ubuntu:~$ ls
anushawashere  bootcamp  Desktop  Downloads  hr      man      Pictures  Public  Tanvi07  Tanvi7  User1.pem  xie
bhargav        demoCA    Documents  hacked     mah    Music   privateuser.pem  snap   Tanvi_7  Templates  Videos

student@ubuntu:~$ stat Tanvi07
  File: Tanvi07
  Size: 45              Blocks: 8          IO Block: 4096   regular file
Device: 805h/2053d    Inode: 655637      Links: 1
Access: (0664/-rw-rw-r-- )  Uid: ( 1000/ student)   Gid: ( 1000/ student)
Access: 2022-08-18 01:34:09.398517898 -0700
Modify: 2022-08-18 01:33:50.684337728 -0700
Change: 2022-08-18 01:33:50.684337728 -0700
 Birth: -

student@ubuntu:~$ nslookup www.google.com

Command 'nslookup' not found, did you mean:
  command 'nslookup' from deb bind9-dnsutils (1:9.16.1-0ubuntu2.10)

Try: sudo apt install <deb name>

student@ubuntu:~$ nslookup www.google.com
Server:      127.0.0.53
Address:     127.0.0.53#53

Non-authoritative answer:
Name:   www.google.com
Address: 142.250.192.132
Name:   www.google.com
Address: 2404:6800:4009:82b::2004

student@ubuntu:~$ pstree -na
systemd auto noprompt
├─systemd-journal
├─systemd-udev
├─systemd-resolve
└─systemd-timesyn
    └─systemd-timesyn
        └─accounts-daemon
            └─2*[[accounts-daemon]]
├─acpid
├─avahi-daemon
├─avahi-daemon
├─cron -f
├─dbus-daemon --system --address=systemd: --nofork --nopidfile --systemd-activation --syslog-only
├─NetworkManager --no-daemon
├─2*[[NetworkManager]]
├─networkd-dispat /usr/bin/networkd-dispatcher --run-startup-triggers
├─polkitd --no-debug
├─2*[[polkitd]]
├─rsyslogd -n -iNONE
├─3*[[rsyslogd]]
├─snapd
├─9*[[snapd]]
├─switcheroo-cont
├─2*[[switcheroo-cont]]
├─systemd-logind
├─udisksd
├─4*[[udisksd]]
├─wpa_supplicant -u -s -O /run/wpa_supplicant
├─clamd --foreground=true
├─clamd
├─ModemManager --filter-policy=strict
├─2*[[ModemManager]]
├─unattended-upgr /usr/share/unattended-upgrades/unattended-upgrade-shutdown --wait-for-signal
└─unattended-upgr

```

Activate Windows
Go to Settings to activate Windows.

```

student@ubuntu:~$ pstree -na
systemd auto noprompt
├─systemd-journal
├─systemd-udev
├─systemd-resolve
├─systemd-timesyn
├─2*[[systemd-timesyn]]
├─accounts-daemon
├─2*[[accounts-daemon]]
├─acpid
├─avahi-daemon
├─avahi-daemon
├─cron -f
├─dbus-daemon --system --address=systemd: --nofork --nopidfile --systemd-activation --syslog-only
├─NetworkManager --no-daemon
├─2*[[NetworkManager]]
├─networkd-dispat /usr/bin/networkd-dispatcher --run-startup-triggers
├─polkitd --no-debug
├─2*[[polkitd]]
├─rsyslogd -n -iNONE
├─3*[[rsyslogd]]
├─snapd
├─9*[[snapd]]
├─switcheroo-cont
├─2*[[switcheroo-cont]]
├─systemd-logind
├─udisksd
├─4*[[udisksd]]
├─wpa_supplicant -u -s -O /run/wpa_supplicant
├─clamd --foreground=true
├─clamd
├─ModemManager --filter-policy=strict
├─2*[[ModemManager]]
├─unattended-upgr /usr/share/unattended-upgrades/unattended-upgrade-shutdown --wait-for-signal
└─unattended-upgr

```

Activate Windows
Go to Settings to activate Windows.

```
--4*[[udisksd]]
wpa_supplicant -u -s -O /run/wpa_supplicant
clamd --foreground=true
  (clamd)
ModemManager --filter-policy=strict
  2*[[ModemManager]]
unattended-upgr /usr/share/unattended-upgrades/unattended-upgrade-shutdown --wait-for-signal
  (unattended-upgr)
vsftpd /etc/vsftpd.conf
gdm3
  2*[[gdm3]]
    gdm-session-wor
      2*[[gdm-session-wor]]
        gdm-x-session --run-script env GNOME_SHELL_SESSION_MODE=ubuntu /usr/bin/gnome-session --systemd --session=ubuntu
          2*[[gdm-x-session]]
            Xorg vt2 -displayfd 3 -auth /run/user/1000/gdm/Xauthority -background none -noreset -keeptty -verbose 3
              5*[[Xorg]]
                gnome-session-b --systemd --systemd --session=ubuntu
                  ssh-agent /usr/bin/ssh-launch env GNOME_SHELL_SESSION_MODE=ubuntu /usr/bin/gnome-session --systemd --session=ubuntu
                    2*[[gnome-session-b]]

sshd
  sshd
    sshd
      bash
freshclam -d --foreground=true
whoopie -f
  2*[[whoopie]]
kerneloops --test
kerneloops
apache2 -k start
  apache2 -k start
    26*[[apache2]]
      apache2 -k start
        26*[[apache2]]
rtkit-daemon
  2*[[rtkit-daemon]]

student@ubuntu:~$ w
02:32:55 up 1:24, 2 users, load average: 0.03, 0.08, 0.08
USER  TTY  FROM          LOGIN@  IDLE   JCPU   PCPU  WHAT
student  :0      :0            01:09   7xdm?  3:31   0.00s /usr/lib/gdm3/gdm-x-session --run-script env GNOME_SHELL_SESSION_MODE=ubuntu
student pts/1    172.20.210.139 01:17   1:03   0.07s  0.07s -bash

student@ubuntu:~$ cat /var/log/auth.log
Sep 12 01:15:06 ubuntu polkitd(authority=local): Registered Authentication Agent for unix-session:c1 (system bus name :1.45 [/usr/bin/gnome-shell], object path /org/freedesktop/PolicyKit1/AuthenticationAgent, locale en_US.UTF-8)
Sep 12 01:15:22 ubuntu dbus-daemon[597]: [system] Failed to activate service 'org.bluez': timed out (service_start_timeout=25000ms)
Sep 12 01:15:48 ubuntu gdm-password]: pam_unix(gdm-password:auth): Couldn't open /etc/securetty: No such file or directory
Sep 12 01:15:53 ubuntu gdm-password]: pam_unix(gdm-password:auth): Couldn't open /etc/securetty: No such file or directory
Sep 12 01:15:53 ubuntu gdm-password]: gkr-pam: unable to locate daemon control file
Sep 12 01:15:53 ubuntu gdm-password]: gkr-pam: stashed password to try later in open session
Sep 12 01:15:53 ubuntu gdm-password]: pam_unix(gdm-password:session): session opened for user student by (uid=0)
Sep 12 01:15:53 ubuntu systemd-logind[614]: New session 2 of user student.
Sep 12 01:15:53 ubuntu systemd: pam_unix(systemd-user:session): session opened for user student by (uid=0)
Sep 12 01:15:54 ubuntu gdm-password]: gkr-pam: gnome-keyring-daemon started properly and unlocked keyring
Sep 12 01:15:57 ubuntu gnome-keyring-daemon[1380]: failed to unlock login keyring on startup
Sep 12 01:15:57 ubuntu gnome-keyring-daemon[1380]: The PKCS#11 component was already initialized
Sep 12 01:15:57 ubuntu gnome-keyring-daemon[1380]: The Secret Service was already initialized
Sep 12 01:15:59 ubuntu polkitd(authority=local): Registered Authentication Agent for unix-session:2 (system bus name :1.84 [/usr/bin/gnome-shell], object path /org/freedesktop/PolicyKit1/AuthenticationAgent, locale en_US.UTF-8)
Sep 12 01:16:10 ubuntu gdm-launch-environment]: pam_unix(gdm-launch-environment:session): session closed for user gdm
Sep 12 01:16:10 ubuntu systemd-logind[614]: Session c1 logged out. Waiting for processes to exit.
Sep 12 01:16:10 ubuntu systemd-logind[614]: Removed session c1.
Sep 12 01:16:10 ubuntu polkitd(authority=local): Unregistered Authentication Agent for unix-session:c1 (system bus name :1.45, object path /org/freedesktop/PolicyKit1/AuthenticationAgent, locale en_US.UTF-8) (disconnected from bus)
Sep 12 01:16:15 ubuntu PackageKit: uid 1000 is trying to obtain org.freedesktop.packagekit.system-sources-refresh auth (only_trusted:0)
Sep 12 01:16:15 ubuntu PackageKit: uid 1000 obtained auth for org.freedesktop.packagekit.system-sources-refresh
Sep 12 01:16:20 ubuntu dbus-daemon[597]: [system] Failed to activate service 'org.bluez': timed out (service_start_timeout=25000ms)
Sep 12 01:17:01 ubuntu CRON[2342]: pam_unix(cron:session): session opened for user root by (uid=0)
Sep 12 01:17:01 ubuntu CRON[2342]: pam_unix(cron:session): session closed for user root
Sep 12 01:29:15 ubuntu sudo: pam_unix(sudo:auth): Couldn't open /etc/securetty: No such file or directory
Sep 12 01:29:15 ubuntu sudo: pam_unix(sudo:auth): Couldn't open /etc/securetty: No such file or directory
Sep 12 01:29:19 ubuntu sudo: student : TTY=pts/0 : BDW=/home/student : USER=root : COMMAND=/usr/bin/ls

student@ubuntu:~$ cat /var/log/auth.log | grep 172.20.210.139
Sep 15 01:17:01 ubuntu sshd[2481]: pam_unix(sshd:auth): authentication failure; logname= uid=0 euid=0 tty=ssh ruser= rhost=172.20.210.139 user=student
Sep 15 01:17:02 ubuntu sshd[2481]: Failed password for student from 172.20.210.139 port 60786 ssh2
Sep 15 01:17:13 ubuntu sshd[2481]: message repeated 2 times: [ Failed password for student from 172.20.210.139 port 60786 ssh2]
Sep 15 01:17:13 ubuntu sshd[2481]: Connection closed by authenticating user student 172.20.210.139 port 60786 [preauth]
Sep 15 01:17:13 ubuntu sshd[2481]: PAM 2 more authentication failures; logname= uid=0 euid=0 tty=ssh ruser= rhost=172.20.210.139 user=student
Sep 15 01:17:19 ubuntu sshd[2487]: Accepted password for student from 172.20.210.139 port 60790 ssh2
student@ubuntu:~$
```

Hacking :

```

student@ubuntu:~/Desktop$ ssh student@172.20.210.139
student@172.20.210.139's password:
Permission denied, please try again.
student@172.20.210.139's password:
Permission denied, please try again.
student@172.20.210.139's password:
student@172.20.210.139: Permission denied (publickey,password).
student@ubuntu:~/Desktop$ ssh student@172.20.210.139
student@172.20.210.139's password:
Welcome to Ubuntu 20.04.2 LTS (GNU/Linux 5.11.0-36-generic x86_64)

```

```

* Documentation:  https://help.ubuntu.com
* Management:    https://landscape.canonical.com
* Support:        https://ubuntu.com/advantage

```

```

235 updates can be installed immediately.
11 of these updates are security updates.
To see these additional updates run: apt list --upgradable

```

```

The list of available updates is more than a week old.
To check for new updates run: sudo apt update

```

```

10 updates could not be installed automatically. For more details,
see /var/log/unattended-upgrades/unattended-upgrades.log
Last login: Mon Sep 12 02:40:53 2022 from 172.20.210.125

```

```

student@ubuntu:~$ ls
anu2  dec  Desktop  enc  hashing  Music  newoutputdemo  Pictures  reqsl.pem  Templates
anu3  demo  Documents  har11.txt  msg  newoutputdemo  privatekey.pem  sl  user1.pem
bootcamp  demoCA  Downloads  har.txt  msg.save  outputdemo  Public  snap  Videos
student@ubuntu:~$ mkdir hackedByTanvi
student@ubuntu:~$ ls
anu2  dec  Desktop  enc  har.txt  msg.save  outputdemo  Public  snap  Videos
anu3  demo  Documents  hackedByTanvi  hashing  Music  Pictures  reqsl.pem  Templates
bootcamp  demoCA  Downloads  har11.txt  msg  newoutputdemo  privatekey.pem  sl  user1.pem
student@ubuntu:~$ cd hackedByTanvi
student@ubuntu:~/hackedByTanvi$ gedit corruptedFile.txt
Unable to init server: Could not connect: Connection refused

(gedit:3278): Gtk-WARNING **: 02:33:29.705: cannot open display:
student@ubuntu:~/hackedByTanvi$ ls
student@ubuntu:~/hackedByTanvi$ cd
student@ubuntu:~$ ls
anu2  dec  Desktop  enc  har.txt  msg.save  outputdemo  Public  snap  Videos
anu3  demo  Documents  hackedByTanvi  hashing  Music  Pictures  reqsl.pem  Templates
bootcamp  demoCA  Downloads  har11.txt  msg  newoutputdemo  privatekey.pem  sl  user1.pem

```

```

student@ubuntu:~$ cd hackedByTanvi
student@ubuntu:~/hackedByTanvi$ touch file1
student@ubuntu:~/hackedByTanvi$ touch file2
student@ubuntu:~/hackedByTanvi$ ls
file1  file2
student@ubuntu:~/hackedByTanvi$ gedit file1
Unable to init server: Could not connect: Connection refused

(gedit:3297): Gtk-WARNING **: 02:34:37.298: cannot open display:
student@ubuntu:~/hackedByTanvi$ nano file1
student@ubuntu:~/hackedByTanvi$ cat file1
Your system was hacked by Tanvi :)
student@ubuntu:~/hackedByTanvi$ ls
file1  file2
student@ubuntu:~/hackedByTanvi$ █

```