

DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING

Data Communication & Computer Networks (CS302)

Lab Task 01/08/2022

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1 ifconfig

Definition - ifconfig stands for "interface configuration." It is used to view and change the configuration of the network interfaces on your system.

Syntax -

\$ ifconfig

```
Screenshot -

paras@parascoding:-$ ifconfig
enp1s0: flags=4163-UP,BROADCAST,RUNNING,MULTICAST> mtu 1500
    inet 172.16.18.221 netmask 255.255.248.0 broadcast 172.16.23.255
    ineto fe80::4f4d:162b:b433:76e4 prefixlen 64 scopeid 0x20<link>
    ether 98:e7:43:2f:88:49 txqueuelen 1000 (Ethernet)
    RX packets 49008924 bytes 24428116080 (24.4 GB)
    RX errors 0 dropped 328569 overruns 0 frame 0
    TX packets 8806974 bytes 1927915001 (1.9 GB)
    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 395263 bytes 48379495 (48.3 MB)
    RX errors 0 dropped 0 overruns 0 frame 0
    TX packets 395263 bytes 48379495 (48.3 MB)
    TX errors 0 dropped 0 overruns 0 carrier 0 collisions 0

wlp2s0: flags=4163<UP,BROADCAST,RUNNING,MULTICAST> mtu 1500
    inet 10.42.0.1 netmask 255.255.255.0 broadcast 10.42.0.255
    inet6 fe80::63df:fe5f:1543:19b5 prefixlen 64 scopeid 0x20<link>
    ether 40:5b:d8:4f:2f:05 txqueuelen 1000 (Ethernet)
    RX packets 6664928 bytes 1671523481 (1.6 GB)
    RX errors 0 dropped 3660 overruns 0 frame 0
    TX packets 14142079 bytes 16839294723 (16.8 GB)
    TX errors 0 dropped 0 overruns 0 carrier 0 collisions 0

paras@parascoding:-$
```

Other Variations

```
paras@parascoding:~$ ifconfig enp1s0
enp1s0: flags=4163<UP,BROADCAST,RUNNING,MULTICAST> mtu 1500
    inet 172.16.18.221 netmask 255.255.248.0 broadcast 172.16.23.255
    inet6 fe80::4f4d:162b:b433:76e4 prefixlen 64 scopeid 0x20<link>
    ether 98:e7:43:2f:88:49 txqueuelen 1000 (Ethernet)
    RX packets 49041847 bytes 24450167364 (24.4 GB)
    RX errors 0 dropped 328797 overruns 0 frame 0
    TX packets 8817542 bytes 1929021450 (1.9 GB)
    TX errors 0 dropped 0 overruns 0 carrier 0 collisions 0

paras@parascoding:~$
```

```
paras@parascoding:~$ ifconfig lo
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 395438 bytes 48407938 (48.4 MB)
    RX errors 0 dropped 0 overruns 0 frame 0
    TX packets 395438 bytes 48407938 (48.4 MB)
    TX errors 0 dropped 0 overruns 0 carrier 0 collisions 0

paras@parascoding:~$
```

2 ip

Definition - This is the latest and updated version of ifconfig command. **Syntax -**

- \$ ip a
 \$ ip addr
- **Screenshots** -

```
paras@parascoding:-$ ip a show enpis0

2: enpis0: <BROADCAST,MULTICAST,UP,LOWER_UP> mtu 1500 qdisc fq_codel state UP group default qlen 1000 linky(ether 98:e7:43:2f:88:49 brd ff:ff:ff:ff: ff inet 172.16.18.221/21 brd 172.16.23.255 scope global dynamic noprefixroute enpis0 valid_lft 84452sec preferred_lft 84452sec inet6 fe80::4f4d:162b:b433:76e4/64 scope link noprefixroute valid_lft forever preferred_lft forever paras@parascoding:-$
```

3 traceroute

Definition - Linux traceroute is one of the most useful commands in networking. It is used to troubleshoot the network. It detects the delay and determines the pathway to your target. It basically helps in the following ways:

- It provides the names and identifies every device on the path.
- It follows the route to the destination
- It determines where the network latency comes from and reports it.

Syntax -

\$ traceroute <detination>

Screenshots

```
aras@parascoding:~$ traceroute www.iiitk.ac.in
traceroute to www.iiitk.ac.in (173.236.185.145), 64 hops max
     117.200.53.210 21.656ms 22.069ms 24.900ms
 2
 3
     103.87.125.29 61.791ms * 51.739ms
 4
     103.87.124.93 309.878ms * 270.914ms
 5
     103.87.124.146 275.480ms 284.277ms
 б
 8
     154.54.76.217 261.232ms 263.219ms 254.318ms
     154.54.56.125 256.016ms
 9
                              258.365ms
                                         254.674ms
10
     154.54.85.245 241.534ms
                              246.917ms
                                         235.114ms
     154.54.47.166 285.022ms
                              257.085ms
                                         240.442ms
11
     154.54.25.226 233.440ms 241.061ms
12
                                         245.859ms
     38.122.62.254 262.720ms 253.714ms 257.201ms
13
14
     208.113.156.208 254.199ms 240.215ms 247.841ms
15
16
17
18
19
```

```
paras@parascoding:~$ traceroute google.com
traceroute to google.com (142.250.72.142), 64 hops max
     117.200.53.210 15.941ms
                               8.740ms 3.496ms
           117.216.207.223 51.691ms
 2
 3
 4
     72.14.218.250 41.433ms 48.234ms 57.514ms
 5
 б
     108.170.253.97 16.282ms
                              23.531ms
                                        16.307ms
 7
     74.125.242.130 29.590ms
                               66.665ms
                                         54.498ms
 8
     142.251.244.99 97.661ms
                               146.613ms 88.210ms
 9
     172.253.51.110 129.083ms 129.372ms
                                           125.291ms
                                           218.809ms
10
     142.250.213.211 211.803ms
                                236.587ms
11
     108.170.230.120 243.661ms
                                 240.191ms
                                           238.534ms
     108.170.247.193 231.530ms 226.227ms 220.652ms
12
13
     142.251.60.111 229.668ms 222.350ms
                                           222.032ms
     * ^C
14
paras@parascoding:~$
```

4 tracepath

Definition - Linux tracepath is similar to traceroute command. It is used to detect networkdelays. However, it doesn't require root privileges

Syntax -

\$ tracepath <destination>

Screenshots -

5 ping

Definition -

Linux ping is one of the most used network troubleshooting commands. It basically checks for the network connectivity between two nodes.

Ping stands for Packet INternet Groper.

The ping command sends the ICMP echo request to check the network connectivity. It keeps executing until it is interrupted. Use Ctrl+C Key to interrupt the execution.

Syntax -

\$ ping <destination>

```
paras@parascoding:~$ ping iiitk.ac.in
PING iiitk.ac.in (173.236.185.145) 56(84) bytes of data.
64 bytes from apache2-yak.warehouse.dreamhost.com (173.236.185.145): icmp_seq=1
ttl=50 time=278 ms
64 bytes from apache2-yak.warehouse.dreamhost.com (173.236.185.145): icmp_seq=2
ttl=50 time=277 ms
64 bytes from apache2-yak.warehouse.dreamhost.com (173.236.185.145): icmp_seq=3
ttl=50 time=301 ms
64 bytes from apache2-yak.warehouse.dreamhost.com (173.236.185.145): icmp_seq=3
ttl=50 time=265 ms
64 bytes from apache2-yak.warehouse.dreamhost.com (173.236.185.145): icmp_seq=5
ttl=50 time=278 ms
64 bytes from apache2-yak.warehouse.dreamhost.com (173.236.185.145): icmp_seq=7
ttl=50 time=278 ms
64 bytes from apache2-yak.warehouse.dreamhost.com (173.236.185.145): icmp_seq=8
ttl=50 time=279 ms
^C
--- iiitk.ac.in ping statistics ---
8 packets transmitted, 6 received, 25% packet loss, time 7029ms
rtt min/avg/max/mdev = 265.067/279.646/300.713/10.566 ms
paras@parascoding:~$
```

```
paras@parascoding:~$ ping -c 5 -s 1 google.com
PING google.com (142.250.189.14) 1(29) bytes of data.
9 bytes from lax31s16-in-f14.1e100.net (142.250.189.14): icmp_seq=1 ttl=60
9 bytes from lax31s16-in-f14.1e100.net (142.250.189.14): icmp_seq=2 ttl=60
9 bytes from lax31s16-in-f14.1e100.net (142.250.189.14): icmp_seq=3 ttl=60
9 bytes from lax31s16-in-f14.1e100.net (142.250.189.14): icmp_seq=4 ttl=60
9 bytes from lax31s16-in-f14.1e100.net (142.250.189.14): icmp_seq=5 ttl=60
--- google.com ping statistics ---
5 packets transmitted, 5 received, 0% packet loss, time 4004ms
```

6 netstat

Definition -

Linux netstat command refers to the network statistics. It provides statistical figures about different interfaces which include open sockets, routing tables, and connection information.

Syntax -Screenshots -

```
ing:~$ netstat
(Not all processes could be identified, non-owned process info will not be shown, you would have to be root to see it all.)
Active Internet connections (w/o servers)
Proto Recv-Q Send-Q Local Address
                                                  Foreign Address
                                                                              State
PID/Program name
                                                  64.52.120.34.bc.g:https ESTABLISHED
tcp
            0
                    0 parascoding:55936
1410581/opera-beta
                                                  a29-04-02-vip.rec:https ESTABLISHED
                    0 parascoding:39538
           0
1410581/opera-beta
                                                  n30-03-09-vip.lb.:https ESTABLISHED
            0
                    0 parascoding:54136
1410581/opera-beta
                                                  64.52.120.34.bc.g:https ESTABLISHED
            0
                    0 parascoding:55934
1410581/opera-beta
                                                  maa05s16-in-f5.1e:https ESTABLISHED
            0
                    0 parascoding:45466
1410581/opera-beta
                    0 parascoding:39536
                                                  a29-04-02-vip.rec:https ESTABLISHED
1410581/opera-beta
           0
                    0 parascoding:54138
                                                  n30-03-09-vip.lb.:https ESTABLISHED
tcp
1410581/opera-beta
            0
                    0 parascoding:45464
                                                  maa05s16-in-f5.1e:https ESTABLISHED
```

```
oaras@parascoding:~$ netstat -s
Ip:
    Forwarding: 1
    38934725 total packets received
    44 with invalid headers
    77 with invalid addresses
    20709707 forwarded
    3037 with unknown protocol
    O incoming packets discarded
    16724620 incoming packets delivered
    24326891 requests sent out
    220 outgoing packets dropped
    978 dropped because of missing route
    747 fragments dropped after timeout
    147547 reassemblies required
    72665 packets reassembled ok
    747 packet reassemblies failed
    22194 fragments received ok
    44489 fragments created
Icmp:
    33153 ICMP messages received
    1893 input ICMP message failed
```

```
paras@parascoding:~$ netstat -r
Kernel IP routing table
                                                           Flags
                                       Genmask
                                                                     MSS Window
                                                                                   irtt Iface
Destination
                   Gateway
                                       0.0.0.0
255.255.255.0
default
                   172.16.16.1
                                                                        0 0
                                                                                        0 enp1s0
10.42.0.0
link-local
                   0.0.0.0
0.0.0.0
                                                                        0 0
                                                                                        0 wlp2s0
                                       255.255.0.0
                                                                        0 0
                                                                                        0 enp1s0
172.16.16.0
                                        255.255.248.0
                                                           U
                                                                                        0 enp1s0
```

7 ss

Definition -

Linux ss command is the replacement for netstat command. It is regarded as a much faster and more informative command than netstat. The faster response of ss is possible as it fetches all the information from within the kernel userspace.

Syntax -

- \$ ss \$ ss -ta \$ ss -ua
- **Screenshots** -

letid State	Pacy-0	Send-Q		Local Address:	Port
ecto state					FOIC
		Address	POFT	Process	
_seq ESTAB	0	0		@000b9	4235146
		*	4235147		
_seq ESTAB	0	0		@000ba	4235148
		*	4235149		
_dgr ESTAB	0	0		/run/systemd/notify	21789
9		*	• 0	,,	
_dgr ESTAB	0	0	· ·	/run/systemd/journal/dev-log	21913
_dgi ESTAB	U		0	/ I dily systema/ Jour Hat/dev-tog	21013
FCTAB	•		U	//	24047
_dgr ESTAB	0	0		/run/systemd/journal/socket	21817
		*	0		
_str ESTAB	0	0		*	4061575
		*	4057040		
_str ESTAB	0	0		*	4241984
		*	4241983		
str ESTAB	0	0			4239716
			4239717		
str ESTAB	0	0	.233.12.	*	3297388
_361 _23170			3294945		3237300
cts ECTAR			3234943	/500 /0505 /1000 /bus	F74F6
_str ESTAB	0	0		/run/user/1000/bus	57450
			55508		
_str ESTAB	0	0		/run/dbus/system_bus_socket	53336

```
aras@parascoding:~$ ss -ta
               Recv-Q Send-Q Local Address:Port
State
                                                                          Peer Address:Port
                                                                                                    Process
                                                                                 0.0.0.0:*
0.0.0.0:*
0.0.0.0:*
0.0.0.0:*
                                  10.42.0.1:domain
127.0.0.53%lo:domain
127.0.0.1:ipp
LISTEN
                         32
                         4096
LISTEN
LISTEN
                         244
                                        127.0.0.1:postgresql
LISTEN
               0
                                                                       0.0.0.0:*
34.110.214.126:https
LISTEN
               0
                                        127.0.0.1:5054
                        0
                                  172.16.18.209:37958
ESTAB
               0
TIME-WAIT
                                  172.16.18.209:35320
                                                                       142.250.182.10:https
               0
                         0
                                                                        34.120.73.225:https
34.120.52.64:https
ESTAB
                         0
                                  172.16.18.209:35698
               0
ESTAB
               0
                         0
                                  172.16.18.209:55936
                                                                       34.117.101.158:https
199.232.93.137:https
                                  172.16.18.209:41948
172.16.18.209:59380
ESTAB
               0
                         0
ESTAB
                         0
                                                                       209.58.131.199:https
142.250.77.176:https
209.58.131.199:https
CLOSE-WAIT
                         0
                                  172.16.18.209:32940
172.16.18.209:40842
               25
ESTAB
                         0
                                  172.16.18.209:32942
CLOSE-WAIT
                         0
                                                                          34.120.52.64:https
ESTAB
                         0
                                   172.16.18.209:55938
                                                                       18.65.25.30:https
35.241.10.116:https
35.244.183.250:https
CLOSE-WAIT
                         0
                                   172.16.18.209:60462
ESTAB
                                   172.16.18.209:57570
                                   172.16.18.209:51968
ESTAB
                                                                       209.58.131.199:https
104.16.51.111:https
34.107.204.85:https
                                   172.16.18.209:32944
CLOSE-WAIT
ESTAB
                         0
                                   172.16.18.209:45518
ESTAB
                                   172.16.18.209:44258
```

```
State Recv-Q Send-Q
                                  Local Address:Port
                                                             Peer Address:Port
                                                                                     Process
UNCONN 0
                                         0.0.0.0:bootps
                                                                   0.0.0.0:*
ESTAB 0
                         172.16.18.209%enp1s0:bootpc
                                                              172.16.16.1:bootps
UNCONN 0
                                         0.0.0.0:631
                                                                   0.0.0.0:*
UNCONN 0
                                         0.0.0.0:35939
                                                                   0.0.0.0:*
UNCONN 0
                                    224.0.0.251:mdns
                                                                   0.0.0.0:*
                                                                0.0.0.0.:

0.0.0.0:*

0.0.0.1:38247

0.0.0.0:*

0.0.0.0:*
                                    224.0.0.251:mdns
UNCONN 0
UNCONN 0
                0
                                         0.0.0.0:mdns
                                      127.0.0.1:38247
10.42.0.1:domain
ESTAB
       0
                0
UNCONN 0
UNCONN 0
                                  127.0.0.53%lo:domain
UNCONN 0
                0
                                                *:1716
                                                                          *:*
                                             [::]:53777
UNCONN 0
                0
                                             [::]:mdns
UNCONN 0
                0
```

8 dig

Definition -

Linux dig command stands for Domain Information Groper. This command is used in DNS lookup to query the DNS name server. It is also used to troubleshoot DNS related issues.

It is mainly used to verify DNS mappings, MX Records, host addresses, and all other DNS records for a better understanding of the DNS topography.

Syntax -

```
aras@parascoding:~$ dig iiitk.ac.in
; <<>> DiG 9.16.1-Ubuntu <<>> iiitk.ac.in
;; global options: +cmd
;; Got answer:
;; ->>HEADER<<- opcode: QUERY, status: NOERROR, id: 4744
;; flags: qr rd ra; QUERY: 1, ANSWER: 1, AUTHORITY: 0, ADDITIONAL: 1
;; OPT PSEUDOSECTION:
  EDNS: version: 0, flags:; udp: 65494
 ; QUESTION SECTION:
;iiitk.ac.in.
   ANSWER SECTION:
iiitk.ac.in.
                           267
                                    IN
                                             Α
                                                      173.236.185.145
;; Query time: 0 msec
;; SERVER: 127.0.0.53#53(127.0.0.53)
;; WHEN: Sun Aug 07 13:49:50 IST 2022
;; MSG SIZE rcvd: 56
paras@parascoding:~$
```

9 nslookup

Definition -

Linux nslookup is also a command used for DNS related queries. It is the older version of dig.

Syntax -

Screenshot -

```
paras@parascoding:~$ nslookup iiitk.ac.in
Server:
              127.0.0.53
Address:
               127.0.0.53#53
Non-authoritative answer:
Name: iiitk.ac.in
Address: 173.236.185.145
paras@parascoding:~$ nslookup google.com
Server:
              127.0.0.53
Address:
               127.0.0.53#53
Non-authoritative answer:
Name:
      google.com
Address: 142.250.182.110
      google.com
Name:
Address: 2404:6800:4007:825::200e
paras@parascoding:~$
```

10 nslookup

Definition -

Linux nslookup is also a command used for DNS related queries. It is the older version of dig.

host

Syntax -Screenshot -

```
paras@parascoding:~$ nslookup iiitk.ac.in
Server:
                127.0.0.53
Address:
                127.0.0.53#53
Non-authoritative answer:
Name:
       iiitk.ac.in
Address: 173.236.185.145
paras@parascoding:~$ nslookup google.com
Server:
                127.0.0.53
Address:
                127.0.0.53#53
Non-authoritative answer:
Name:
        google.com
Address: 142.250.182.110
Name:
       google.com
Address: 2404:6800:4007:825::200e
paras@parascoding:~$
```

11 route

Definition -

Linux route command displays and manipulates the routing table existing for your system. A router is basically used to find the best way to send the packets across to a destination.

Syntax -

Screenshot -

```
Kernel IP routing table
Destination
                 Gateway
                                  Genmask
                                                   Flags Metric Ref
                                                                         Use Iface
default
                 _gateway
                                  0.0.0.0
                                                   UG
                                                          100
                                                                           0 enp1s0
                                  255.255.255.0
255.255.0.0
10.42.0.0
                 0.0.0.0
                                                          600
                                                                           0 wlp2s0
link-local
                 0.0.0.0
                                                          1000
                                                                 0
                                                                           0 enp1s0
172.16.16.0
                 0.0.0.0
                                  255.255.248.0
                                                          100
                                                                           0 enp1s0
 aras@parascoding:~$
```

12 host

Definition -

Linux host command displays the domain name for a given IP address and IP address for a given hostname. It is also used to fetch DNS lookup for DNS related query. **Syntax**

```
paras@parascoding:~$ host iiitk.ac.in
iiitk.ac.in has address 173.236.185.145
iiitk.ac.in mail is handled by 5 ALT2.ASPMX.L.GOOGLE.COM.
iiitk.ac.in mail is handled by 5 ALT1.ASPMX.L.GOOGLE.COM.
iiitk.ac.in mail is handled by 10 ALT4.ASPMX.L.GOOGLE.COM.
iiitk.ac.in mail is handled by 1 ASPMX.L.GOOGLE.COM.
iiitk.ac.in mail is handled by 10 ALT3.ASPMX.L.GOOGLE.COM.
paras@parascoding:~$ host google.com
google.com has address 142.250.68.46
google.com has IPv6 address 2607:f8b0:4007:815::200e
google.com mail is handled by 10 smtp.google.com.
paras@parascoding:~$ host localhost
localhost has address 127.0.0.1
localhost has IPv6 address ::1
paras@parascoding:~$
```

13 arp

Definition -

Linux arp command stands for Address Resolution Protocol. It is used to view and add content to the kernel's ARP table.Linux arp command stands for Address Resolution Protocol. It is used to view and add content to the kernel's ARP table. **Syntax** -

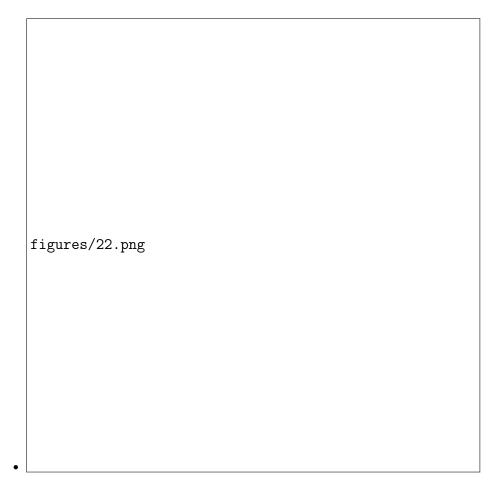
Screenshot -

paras@parascoding:~\$ arp)			
Address	HWtype	HWaddress	Flags Mask	Iface
172.16.16.63	ether	64:db:8b:a4:60:e1	С	enp1s
0				
172.16.16.61	ether	fe:f6:0c:30:8e:ed	С	enp1s
0				
172.16.16.42	ether	60:38:e0:d1:2b:8c	С	enp1s
0				
172.16.16.32		(incomplete)		enp1s
0				
172.16.16.33		(incomplete)		enp1s
0		5 40 00 145 00		
10.42.0.213	ether	fc:19:99:ed:1f:88	С	wlp2s
0		(:1-+-)		
172.16.16.26		(incomplete)		enp1s
172 16 16 27	ether	b0:7b:25:19:b9:0d	6	00015
172.16.16.27	ether	D0:/D:25:19:D9:00	С	enp1s
172.16.16.24	ether	e4:54:e8:7a:1f:fb	С	00015
0	ether	e4.34.e8./a.11.10		enp1s
172.16.16.25		(incomplete)		enp1s
A		(theomptete)		clip13
172.16.16.30		(incomplete)		enp1s
172.10.10.30		(theomptete)		cubis

14 iwconfig

Definition -

Linux iwconfig is used to configure the wireless network interface. It is used to set and view the basic WI-FI details like SSID and encryption. To knowmore about this command, refer to the man page. **Syntax** -



15 hostname

Definition -

Linux hostname is the simple command used to view and set the hostname of a system.

Syntax -

```
paras@parascoding:~$ hostname
parascoding
paras@parascoding:~$
```

16 curl

Definition -

Curl (short for "Client URL") is a command line tool that enables data transfer over various network protocols. It communicates with a web or application server by specifying a relevant URL and the data that need to be sent or received.

Syntax -

Screenshot -

```
p<mark>aras@parascoding:~$</mark> curl -O https://github.com/parascoding/Smart-Contact-Manage
r/blob/main/src/main/java/com/smart/contactManager/ContactManagerApplication.jav
               % Received % Xferd Average Speed
                                                          Time
                                                                    Time
                                                                               Time Current
                                       Dload Upload
                                                          Total
                                                                              Left Speed
                                                                   Spent
100 156k
               0 156k
                                       35354
                                                    0 --:--:--
                                                                  0:00:04 --:-- 39675
      @parascoding:~$ curl -O https://iiitk.ac.in/images/pages/1629952172.pdf
  % Total
                % Received % Xferd
                                        Average Speed
                                                           Time
                                                                     Time
                                                                                Time
                                                                                       Current
                                        Dload Upload
                                                           Total
                                                                     Spent
                                                                                Left
                                                                                      Speed
     353k 100
                   353k
                                        15817
                                                     0 0:00:22
                                                                   0:00:22
```

17 wget

Definition -

Wget is the non-interactive network downloader which is used to download files from the server even when the user has not logged on to the system and it can work in the background without hindering the current process.

Syntax -

```
paras@parascoding:~$ wget https://iiitk.ac.in/images/pages/1629952172.pdf
--2022-08-07 16:12:12-- https://iiitk.ac.in/images/pages/1629952172.pdf
Resolving iiitk.ac.in (iiitk.ac.in)... 173.236.185.145
Connecting to iiitk.ac.in (iiitk.ac.in)|173.236.185.145|:443... connected.
HTTP request sent, awaiting response... 200 OK
Length: 361884 (353K) [application/pdf]
Saving to: '1629952172.pdf.1'

1629952172.pdf.1 100%[===========]] 353.40K 18.5KB/s in 19s
2022-08-07 16:12:34 (18.8 KB/s) - '1629952172.pdf.1' saved [361884/361884]
paras@parascoding:~$
```

18 whois

Definition -

Linux whois command is used to fetch all the information related to a website. You can get all the information about a website including the registration and the owner information.

Syntax -

Screenshot -

```
Daras@parascoding:-$ whois iiitk.ac.in

Domain Name: iiitk.ac.in

Registry Domain ID: D9465659-IN

Registrar WHOIS Server:

Registrar URL: http://www.ernet.in

Updated Date: 2019-06-13T08:37:18Z

Creation Date: 2015-05-14T12:15:59Z

Registry Expiry Date: 2025-05-14T12:15:59Z

Registrar: ERNET India

Registrar IANA ID: 800068

Registrar Abuse Contact Email:

Registrar Abuse Contact Phone:

Domain Status: ok http://www.icann.org/epp#OK

Registry Registrant ID: REDACTED FOR PRIVACY

Registrant Name: REDACTED FOR PRIVACY

Registrant Street: REDACTED FOR PRIVACY

Registrant State/Province:

Registrant Country: IN

Registrant Country: IN

Registrant Phone: REDACTED FOR PRIVACY
```

19 ifplugstatus

Definition -

Linux ifplugstatus command is used to check if a cable is plugged into the network interface. This command is not directly available on Ubuntu. **Syntax** -

```
paras@parascoding:~$ ifplugstatus
[lo: link beat detected
enp1s0: link beat detected
wlp2s0: unplugged
paras@parascoding:~$
```