

1) dig :

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sanjitmaji@sanjit-maji: ~  
File Edit View Search Terminal Help  
sanjitmaji@sanjit-maji:~$ dig www.google.com  
  
; <<>> DiG 9.10.3-P4-Ubuntu <<>> www.google.com  
;; global options: +cmd  
;; Got answer:  
;; ->>HEADER<<- opcode: QUERY, status: NOERROR, id: 1983  
;; flags: qr rd ra; QUERY: 1, ANSWER: 1, AUTHORITY: 0, ADDITIONAL: 1  
  
;; OPT PSEUDOSECTION:  
; EDNS: version: 0, flags:; udp: 65494  
;; QUESTION SECTION:  
;www.google.com.                IN      A  
  
;; ANSWER SECTION:  
www.google.com.                163     IN      A      172.217.31.68  
  
;; Query time: 5 msec  
;; SERVER: 127.0.0.53#53(127.0.0.53)  
;; WHEN: Mon Jan 29 06:23:47 IST 2018  
;; MSG SIZE rcvd: 59  
  
sanjitmaji@sanjit-maji:~$ █
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2) route :

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sanjitmaji@sanjit-maji: ~  
File Edit View Search Terminal Help  
sanjitmaji@sanjit-maji:~$ route  
Kernel IP routing table  
Destination Gateway Genmask Flags Metric Ref Use Iface  
default gateway 0.0.0.0 UG 100 0 0 enp2s0  
default gateway 0.0.0.0 UG 600 0 0 wlx20e21  
700bd1a  
link-local 0.0.0.0 255.255.0.0 U 1000 0 0 enp2s0  
192.168.1.0 0.0.0.0 255.255.255.0 U 100 0 0 enp2s0  
192.168.1.0 0.0.0.0 255.255.255.0 U 600 0 0 wlx20e21  
700bd1a  
sanjitmaji@sanjit-maji:~$ route -n  
Kernel IP routing table  
Destination Gateway Genmask Flags Metric Ref Use Iface  
0.0.0.0 192.168.1.3 0.0.0.0 UG 100 0 0 enp2s0  
0.0.0.0 192.168.1.3 0.0.0.0 UG 600 0 0 wlx20e21  
700bd1a  
169.254.0.0 0.0.0.0 255.255.0.0 U 1000 0 0 enp2s0  
192.168.1.0 0.0.0.0 255.255.255.0 U 100 0 0 enp2s0  
192.168.1.0 0.0.0.0 255.255.255.0 U 600 0 0 wlx20e21  
700bd1a  
sanjitmaji@sanjit-maji:~$ route -Cn  
Kernel IP routing cache  
Source Destination Gateway Flags Metric Ref Use Iface  
sanjitmaji@sanjit-maji:~$
```

3] arp :

```
sanjitmaji@sanjit-maji: ~  
File Edit View Search Terminal Help  
sanjitmaji@sanjit-maji:~$ arp www.google.com  
www.google.com (172.217.31.68) -- no entry  
sanjitmaji@sanjit-maji:~$ arp  
Address HWtype HWaddress Flags Mask Iface  
gateway ether c8:3a:35:58:3c:40 C enp2s  
0  
gateway ether c8:3a:35:58:3c:40 C wlx20  
e21700bd1a  
sanjitmaji@sanjit-maji:~$
```

4] mtr :

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sanjitmaji@sanjit-maji: ~  
File Edit View Search Terminal Help  
sanjit-maji (0.0.0.0) My traceroute [v0.87] Mon Jan 22 06:19:54 2018  
Keys: Help Display mode Restart statistics Order of fields quit  
Packets Pings  
Host Loss% Snt Last Avg Best Wrst StDev  
1. localhost 0.0% 102 0.1 0.1 0.1 0.5 0.0
```