

# Linux activity –2 (command)

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`tree` options (man `tree`) `tree -a`

List all files, including hidden ones.

`tree -d`

List directories only, not files.

`tree -u`

Show the user owner of each file.

`tree -g`

Show the group owner of each file.

`tree -p`

Show the permissions (rwx) of each file.

Exploring More Commands `ifconfig`

Show or configure network interfaces.

Displays IP address, MAC address, etc.

## ping

Test connectivity by sending ICMP packets to a host.

Example: ping google.com PING google.com

```
└─(kali㉿kali)-[~]
```

```
└─$ ping 8.8.8.8
```

PING 8.8.8.8 (8.8.8.8) 56(84) bytes of data.

```
64 bytes from 8.8.8.8: icmp_seq=2 ttl=111 time=112 ms
64 bytes from 8.8.8.8: icmp_seq=3 ttl=111 time=92.6 ms
64 bytes from 8.8.8.8: icmp_seq=4 ttl=111 time=75.3 ms
64 bytes from 8.8.8.8: icmp_seq=5 ttl=111 time=79.6 ms
64 bytes from 8.8.8.8: icmp_seq=6 ttl=111 time=103 ms
64 bytes from 8.8.8.8: icmp_seq=7 ttl=111 time=69.4 ms
64 bytes from 8.8.8.8: icmp_seq=8 ttl=111 time=58.8 ms
64 bytes from 8.8.8.8: icmp_seq=10 ttl=111 time=123 ms
64 bytes from 8.8.8.8: icmp_seq=11 ttl=111 time=56.7 ms
64 bytes from 8.8.8.8: icmp_seq=12 ttl=111 time=141 ms
64 bytes from 8.8.8.8: icmp_seq=13 ttl=111 time=303 ms
64 bytes from 8.8.8.8: icmp_seq=14 ttl=111 time=826 ms
64 bytes from 8.8.8.8: icmp_seq=15 ttl=111 time=95.2 ms
64 bytes from 8.8.8.8: icmp_seq=16 ttl=111 time=363 ms
64 bytes from 8.8.8.8: icmp_seq=17 ttl=111 time=89.3 ms
64 bytes from 8.8.8.8: icmp_seq=18 ttl=111 time=159 ms
64 bytes from 8.8.8.8: icmp_seq=19 ttl=111 time=45.0 ms
64 bytes from 8.8.8.8: icmp_seq=20 ttl=111 time=60.7 ms
64 bytes from 8.8.8.8: icmp_seq=21 ttl=111 time=54.3 ms
64 bytes from 8.8.8.8: icmp_seq=22 ttl=111 time=98.0 ms
64 bytes from 8.8.8.8: icmp_seq=23 ttl=111 time=71.4 ms
64 bytes from 8.8.8.8: icmp_seq=24 ttl=111 time=63.3 ms
64 bytes from 8.8.8.8: icmp_seq=25 ttl=111 time=93.2 ms
```

```
64 bytes from 8.8.8.8: icmp_seq=27 ttl=111 time=268 ms
64 bytes from 8.8.8.8: icmp_seq=28 ttl=111 time=60.1 ms
64 bytes from 8.8.8.8: icmp_seq=29 ttl=111 time=313 ms
64 bytes from 8.8.8.8: icmp_seq=29 ttl=111 time=382 ms (DUP!)
64 bytes from 8.8.8.8: icmp_seq=29 ttl=111 time=382 ms (DUP!)
64 bytes from 8.8.8.8: icmp_seq=29 ttl=111 time=382 ms (DUP!)
64 bytes from 8.8.8.8: icmp_seq=31 ttl=111 time=85.8 ms
^C
--- 8.8.8.8 ping statistics ---
31 packets transmitted, 27 received, +3 duplicates, 12.9032% packet loss, time 30149ms
rtt min/avg/max/mdev = 44.963/170.250/826.480/165.821 ms
```

## traceroute

Show the path packets take to reach a host.

Example: traceroute google.com traceroute google.com

```
—(kali㉿kali)-[~] └─$ traceroute google.com traceroute to google.com
(142.250.183.238), 30 hops max, 60 byte packets
 1 192.168.64.1
(192.168.64.1) 0.290 ms * 0.254 ms
 2 10.189.117.188 (10.189.117.188) 11.094
ms
 3 11.081 ms 11.073 ms
 4 255.0.0.0 (255.0.0.0) 54.704 ms 54.695 ms
 5 62.210 ms
 6 255.0.0.2 (255.0.0.2) 64.592 ms 63.998 ms
 7 65.179 ms
 8 5 255.0.0.3
(255.0.0.3) 63.062 ms 62.890 ms 63.313 ms
 9 6 192.168.225.147
(192.168.225.147) 68.242 ms 62.814 ms 63.564 ms
 10 7 192.168.233.32
(192.168.233.32) 57.509 ms 192.168.151.225
(192.168.151.225) 51.555 ms
 11 192.168.233.32 (192.168.233.32) 49.733 ms
 12 8 * * * 192.168.151.222
(192.168.151.222) 22.892 ms
 13 9 * * *
 14 10 * * *
 15 11 * * *
 16 12 209.85.175.48
(209.85.175.48) 32.054 ms
 17 13 * 209.85.175.48
(209.85.175.48) 66.984 ms
 18 14 * * *
 19 15 142.251.230.70
(142.251.230.70) 134.336 ms
 20 16 216.239.54.196
(216.239.54.196) 133.869 ms
 21 17 209.85.248.180
(209.85.248.180) 135.696 ms
 22 18 135.696 ms
 23 19 72.14.235.151
(72.14.235.151) 133.688 ms
 24 20 142.250.239.56
(142.250.239.56) 128.755 ms
 25 21 142.251.227.235
(142.251.227.235) 129.436 ms
 26 22 17
```

```
209.85.143.186 (209.85.143.186) 130.066 ms 192.178.252.108  
(192.178.252.108) 128.953 ms 192.178.252.124 (192.178.252.124) 130.164  
ms 18 192.178.83.215 (192.178.83.215) 130.498 ms 192.178.252.82  
(192.178.252.82) 128.627 ms 216.239.54.93 (216.239.54.93) 129.337 ms 19  
216.239.62.219 (216.239.62.219) 129.500 ms 142.251.76.173  
(142.251.76.173) 87.104 ms 216.239.50.23 (216.239.50.23) 87.016 ms 20  
maa05s23-in-f14.1e100.net (142.250.183.238) 87.907 ms 142.251.76.175  
(142.251.76.175) 93.091 ms maa05s23-in-f14.1e100.net (142.250.183.238)  
93.070 ms
```

nmap

Network scanner: find open ports, services, and hosts. Example: nmap  
192.168.1.1

mkdir

Make a new directory. Example:

```
(pranav㉿kali)-mkdir pranv.txt
```

```
└─$ ls
```

```
Desktop Documents Downloads hi Music Pictures Public Templates Videos
```