

Linux Networking Commands

1. ifconfig

- Display network interface information.

ifconfig

2. ip

- Show/manipulate routing, devices, policy routing, and tunnels.

ip address show

3. route

- Display or manipulate the IP routing table.

route -n

4. ping

- Send ICMP ECHO_REQUEST to network hosts. **ping google.com**

5. traceroute

- Print the route packets trace to network host. `traceroute google.com`

6. netstat

- Print network connections, routing tables, interface statistics, masquerade connections, and multicast memberships.

`netstat -an`

7. ss

- Display socket statistics.

`ss -tulpn`

8. hostname

- Show or set the system's host name.

`Hostname`

9. dig

- DNS lookup utility.

`dig google.com`

10. nslookup

- Query Internet name servers interactively. `nslookup google.com`

11. route

- Manipulate routing tables.

`route add default gw 192.168.1.1`

12. iptables

- Administration tool for IPv4 packet filtering and NAT.

`iptables -L`

13. tcpdump

- Dump traffic on a network. `tcpdump -i eth0`

14. sshd

- OpenSSH daemon.

`service sshd restart`

15. telnet

- User interface to the TELNET protocol. `telnet google.com 80`

16. scp

- Secure copy (remote file copy program).

`scp file.txt user@remote:/path/to/destination`

17. wget

- Non-interactive network downloader.

`wget http://example.com/file.zip`

18. curl

- Command line tool for transferring data with URL syntax.

`curl http://example.com/api`

19. **iptraf**

- Interactive color IP LAN monitor.

Iptraf

20. **iftop**

- Display bandwidth usage on an interface.

lftop

21. **nmap**

- Network exploration tool and security scanner. **nmap -sP 192.168.1.0/24**

22. **lsof**

- List open files.

lsof -i :80

23. **ethtool**

- Display or change ethernet card settings. **ethtool eth0**

- Display or modify the ARP cache. `arp -a`

25. route

- Display or modify the IP routing table.

`Route`

26. ss

- Display socket statistics. `ss -s`

27. hostnamectl

- Control the system hostname and related settings. `hostnamectl status`

28. resolvconf

- Manage DNS information. `resolvconf -u`

29. mtr

- Network diagnostic tool. `mtr google.com`

30. iwconfig

- Configure a wireless network interface.

`iwconfig`

31. nc

- Arbitrary TCP and UDP connections and listens. `nc -l 8080`

32. scp

- Copy files between hosts on a network.

`scp file.txt user@host:/path/to/destination`

33. ssh-keygen

- Generate, manage, and convert authentication keys for ssh.

`ssh-keygen -t rsa`

- Show socket statistics. `ss -t -a`

35. tcpdump

- Capture and display packets on a network. `tcpdump -i eth0 tcp port 80`

36. route

- Add a new route.

```
route add -net 192.168.2.0 netmask  
255.255.255.0 gw 192.168.1.1
```

37. nmcli

- Command-line client for NetworkManager. `nmcli connection show`

38. dig

- Perform DNS lookups.
`dig +short A google.com`

39. nload

- Visual representation of incoming and outgoing traffic.

```
Nload
```

40. iperf

- Tool for measuring TCP and UDP bandwidth performance.

```
iperf -c server_ip
```

41. fping

- Quickly ping multiple hosts.

```
fping -a -g 192.168.1.1 192.168.1.254
```

42. iftop

- Real-time console-based network bandwidth monitoring tool.

```
iftop -n
```

43. route

- Delete a route.

```
route del -net 192.168.2.0 netmask  
255.255.255.0
```

44. tcpdump

- Capture and display packets in ASCII. `tcpdump -A -i eth0`

45. netcat

- Utility for reading from and writing to network connections.

```
nc -zv 192.168.1.1 22
```

46. nmtui

- Text User Interface for controlling NetworkManager.

```
Nmtui
```

47. ethtool

- Change the speed/duplex settings of an Ethernet device.

```
ethtool -s eth0 speed 100 duplex full
```

- Show listening sockets. `ss -l`

49. host

- DNS lookup utility.
`host google.com`

50. nmcli

- List available Wi-Fi networks. `nmcli device wifi list`

These commands cover a wide range of networking tasks and can be useful for troubleshooting, monitoring, and managing network configurations in a DevOps environment.