



DevOps Shack


Linux Networking Commands


For Linux users, mastering networking commands can open up a world of possibilities, from diagnosing network issues to optimizing performance.


Here's a quick guide to 30 essential Linux networking commands that you should know:


1. **ping** - Test network connectivity. 📶
`ping google.com`
2. **ifconfig** - Configure network interfaces. 🔧
`ifconfig`
3. **netstat** - Display network connections. 📊
`netstat -tuln`
4. **ssh** - Secure Shell for remote login. 🔒
`ssh user@hostname`
5. **scp** - Secure Copy for file transfer. 📦
`scp file_name user@hostname:/path/to/destination`
6. **traceroute** - Trace the route packets take to a network host. 🗺️
`traceroute google.com`


7. **nslookup** - Query Internet domain name servers. 🔍
`nslookup google.com`
8. **dig** - DNS lookup utility. 🌐
`dig google.com`
9. **host** - DNS lookup utility. 🌐
`host google.com`
10. **nmap** - Network exploration tool and security scanner. 🛡️
`nmap localhost`
11. **ip** - Show or manipulate routing, devices, policy routing, and tunnels. 📊
`ip addr show`
12. **ss** - Another utility to investigate sockets. 🔍
`ss -tuln`
13. **tcpdump** - Capture and analyze network traffic. 📷
`tcpdump -i eth0`
14. **wget** - Non-interactive network downloader. 📄
`wget http://example.com/file.txt`
15. **curl** - Transfer data from or to a server. 🌐
`curl http://example.com`
16. **ncat** - Network utility for reading from and writing to network connections. 📡
`ncat -l 1234`
17. **socat** - Multipurpose relay for bidirectional data transfer. 🔄
`socat - TCP4-LISTEN:1234,fork`
18. **iptables** - User-space utility program that allows a system administrator to configure the IP packet filter rules of the Linux kernel firewall. 🛡️
`iptables -L`


19. **firewall-cmd** - Command line interface to firewall management (firewalld). 
`firewall-cmd --list-all`


20. **ufw** - Uncomplicated Firewall. 
`ufw status`


21. **route** - Show or manipulate the IP routing table. 
`route -n`


22. **arp** - Address Resolution Protocol. 
`arp -a`

23. **ethtool** - Utility for controlling network drivers and hardware. 
`ethtool eth0`


24. **mtr** - Diagnostic tool for network problems. 
`mtr google.com`


25. **nethogs** - Monitor network traffic. 
`nethogs`

26. **iftop** - Monitor bandwidth usage on an interface. 
`iftop`

27. **vnstat** - Network traffic monitor. 
`vnstat -i eth0`

28. **bmon** - Bandwidth monitor and rate estimator. 
`bmon`

29. **iperf** - Tool for active measurements of the maximum achievable bandwidth on IP networks. 
`iperf -c server_ip`

30. **speedtest-cli** - Command line interface for testing internet bandwidth using speedtest.net. 
`speedtest-cli`