Networking commands

Command	Purpose	Example
ping	Test reachability & latency	ping google.com
ifconfig / ip addr	Show network interfaces & IPs	ip addr show
netstat / ss	View open ports & connections	ss -tuln
dig	Query DNS records	dig openai.com
traceroute	Trace packet route	traceroute github.com
curl	Send HTTP requests	curl -I example.com
wget	Download files	wget https://file.com/file.zip
scp	Copy files via SSH	scp file.txt user@host:/path
rsync	Sync files/directories	rsync -av folder/ user@host:/path
host	Simple DNS lookup	host example.com
arp	Show ARP table	arp -a
ethtool	NIC settings	ethtool eth0
nmcli	Manage connections	nmcli device status
tcpdump	Capture packets	tcpdump -i eth0 port 80
nmap	Network scanning	nmap 192.168.1.0/24
whois	Domain info	whois example.com
mtr	Continuous traceroute + ping	mtr google.com
iwconfig	Wireless settings	iwconfig wlan0
route	Routing table	route -n
sshd	SSH daemon status	systemctl status sshd
ftp	FTP connection	ftp ftp.example.com
nc (netcat)	Network debug	nc -zv host 80
speedtest-cli	Test internet speed	speedtest-cli
telnet	Test service ports	telnet host 25
scp -r	Copy folders via SSH	scp -r dir user@host:/path
ip link	Manage interfaces	ip link set eth0 down
bridge	Show/config bridges	bridge link

firewalld / ufw	Firewall management	ufw allow 22
ss -s	Network summary	ss -s
iwlist	Scan Wi-Fi networks	iwlist wlan0 scan
dig +short	Clean DNS output	dig +short example.com
scp -P	Use custom SSH port	scp -P 2222 file user@host:/
tcpflow	Capture TCP data	tcpflow -i eth0
scp -C	Compressed transfer	scp -C file user@host:/
iperf3	Test network throughput	iperf3 -c host
arping	Send ARP requests	arping 192.168.1.1
scp -i	Use a specific SSH key	scp -i ~/.ssh/id_rsa file user@host:/path
iftop	Real-time bandwidth usage	iftop -i eth0
vnstat	Network traffic stats	vnstat -d
ss -pant	Show processes using network	ss -pant
ping -c	Limit number of pings	ping -c 5 google.com