

Linux Networking Commands Cheat Sheet

Networking Basics

ifconfig	Show or configure network interfaces.
ifconfig eth0 up	Activate eth0 network interface.
ip addr	Show or change IP addresses.
ip addr show	Show network interfaces and associated IP addresses.
ip addr add 192.168.1.1/24 dev eth0	Add IP address with subnet mask to network interface.
ip link	Show or configure network interfaces.
ip link show	Show network interface information.
ip link set eth0 down	Deactivate eth0 network interface.
ip route	Show or change routing table.
ip route show	Show current routing table.
ip route add default via 192.168.1.1	Add default gateway on 192.168.1.1.

Advanced Networking

route	Show or configure routing table.
route -n	Show routing table (numeric addresses).
route add default gw 192.168.1.1	Add default route to routing table.
arp	Show or change ARP cache.
arp -n	Show ARP cache (numeric addresses).
arp -d 192.168.1.100	Remove 192.168.1.100 from the ARP cache.
iwconfig	Manage wireless network interfaces.
iwconfig wlan0	Show information for wlan0 network interface.
curl wget	Download files from the internet.
curl -o [link] wget [link]	Download file and save in current directory.

Network Monitoring

netstat	Network statistics.
netstat -tuln	Show active network sockets.
netstat -r	Show kernel routing table.
ss	Socket statistics.
ss -tuln	Show active network sockets.
ss -i	Show network interface packet statistics.
iftop	Real time bandwidth usage.
iftop -n	Real time bandwidth usage (numeric addresses).
iftop -i eth0	Real time bandwidth usage for eth0 network interface.
tcpdump	Network packet analyzer.
tcpdump -i eth0	Show network traffic on eth0 network interface.
tcpdump -n port 80	Show network traffic on port 80 (numeric addresses).

DNS and Host Resolution

dig example.com	Perform DNS lookup.
nslookup example.com	Query DNS servers.
host example.com	Perform DNS lookup.
hostname	Display hostname.
hostname myhost	Change hostname.

Network Troubleshooting

ping example.com	Send ICMP echo requests.
traceroute example.com	Trace route to destination.
tracepath example.com	Simplified traceroute.
mtr example.com	Combines ping and traceroute functionalities.
whois example.com	Lookup information for IP or domain.

Connectivity

ifplugstatus eth0	Check if ethernet cable is plugged in eth0.
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