Mac Network Commands

LightAtom

Addresses and interfaces

Command	What it does
`ipconfig getifaddr en0`	local IP
`ifconfig en0`	full interface details
`networksetup -listallhardwareports`	which enX is which
`ipconfig getpacket en0`	DHCP lease, router and DNS
`dig +short txt ch whoami.cloudflare @1.1.1.1`	public IP

DNS

Command	What it does
`dig +short apple.com`	look up a name
`dig -x 8.8.8.8 +short`	reverse lookup
`nslookup apple.com 1.1.1.1`	ask a specific server
`scutil --dns`	resolvers in use
`dscacheutil -q host -a name apple.com`	resolve like apps do
`sudo dscacheutil -flushcache; sudo killall -HUP mDNSResponder`	flush the cache

Connections and ports

Command	What it does
`nettop -P`	live traffic per process
`lsof -nP -i -sTCP:ESTABLISHED`	connections with remote addresses
`sudo lsof -nP -iTCP:PORT -sTCP:LISTEN`	who listens on a port
`netstat -an -p tcp`	all TCP sockets
`nc -vz host port`	test a remote port

Reachability and routes

Command	What it does
`ping -c 10 1.1.1.1`	reachability and latency
`traceroute -n host`	the route
`netstat -rn -f inet`	routing table
`route -n get default`	active gateway and interface
`arp -a`	local devices

Wi-Fi

Command	What it does
	Option-click the Wi-Fi icon for signal (RSSI) and channel
`sudo wdutil info`	the same in Terminal
`networksetup -listpreferredwirelessnetworks en0`	saved networks
`networksetup -getmacaddress Wi-Fi`	hardware MAC

Speed, firewall and settings

Command	What it does
`networkQuality`	speed and responsiveness
`/usr/libexec/ApplicationFirewall/socketfilterfw --getglobalstate`	firewall status
`sudo pfctl -s info`	packet filter status
`networksetup -setdnsservers Wi-Fi 1.1.1.1`	set DNS
`sudo ipconfig set en0 DHCP`	renew the lease