

WINDOWS/LINUX NETWORKING COMMANDS

(TOP 20 COMMANDS)

Command	Platform	Description	Example
<code>ipconfig</code>	Windows	Displays IP address, subnet mask, gateway	<code>ipconfig /all</code>
<code>ifconfig</code>	Linux/macOS (older)	Shows interface configs	<code>ifconfig eth0</code>
<code>ip a</code>	Linux	Shows IP addresses and interfaces (modern)	<code>ip a</code>
<code>ping</code>	All	Tests network connectivity	<code>ping google.com</code>
<code>tracert</code>	Windows	Traces route to a host	<code>tracert 8.8.8.8</code>
<code>tracert</code>	Linux/macOS	Linux/macOS version of <code>tracert</code>	<code>tracert google.com</code>
<code>netstat</code>	All	Displays network connections and ports	<code>netstat -an</code>
<code>ss</code>	Linux	Replacement for <code>netstat</code> (faster)	<code>ss -tuln</code>
<code>nslookup</code>	All	Queries DNS servers for domain info	<code>nslookup google.com</code>
<code>dig</code>	Linux/macOS	Advanced DNS lookup	<code>dig openai.com</code>
<code>hostname</code>	All	Shows or sets the system's hostname	<code>hostname</code>
<code>arp -a</code>	All	Displays MAC address table (ARP cache)	<code>arp -a</code>
<code>route print</code>	Windows	Shows routing table	<code>route print</code>
<code>ip route</code>	Linux	Shows routing table (modern)	<code>ip route</code>
<code>netsh</code>	Windows	Network configuration tool	<code>netsh wlan show profile</code>
<code>nmcli</code>	Linux	NetworkManager CLI (Linux)	<code>nmcli dev status</code>
<code>tcpdump</code>	Linux/macOS	Captures network packets (needs sudo)	<code>tcpdump -i eth0</code>
<code>Wireshark</code>	All	GUI tool for packet capture (optional mention)	<i>Run from GUI</i>
<code>telnet</code>	All	Tests connectivity to a specific port	<code>telnet smtp.gmail.com</code>
<code>curl</code>	All	Tests HTTP/HTTPS connections	<code>curl https://example.com</code>