

IPv6

- IPv6 CLI commands

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Below are the most important helpful commands for checking and diagnosing the IPv6 environment

Windows 8 / 10

Command	Function
ipconfig /all	displays all interface details
ping ::1	Test IPv6 protocol host internally (localhost)
netsh interface ipv6 show interface	Interface status (all) and IPv6 addresses
netsh interface ipv6 showaddress	IPv6 addresses including validity displays
netsh interface ipv6 show privacy netsh interface ipv6 show global	See IPv6 Configuration and Privacy Extensions
netsh interface ipv6 show route route print -6	Show IPv6 routing table
netsh interface ipv6 show neighbors	Mapping IPv6 addresses to MAC addresses
netsh interface ipv6 show destination	Destination cache incl. PMTU values
netsh interface ipv6 dump	show all changes
netsh interface ipv6 reset	reset all changes

Linux

Command	Function
ifconfig -a ifconfig eth0 grep inet6	displays all interface details ETH0 only IPv6 addresses
ping6 ::1	Test IPv6 protocol host internally (localhost)
ip -6 address show ip -6 maddr show	Interface status (all) and IPv6 addresses show multicast groups
netsh interface ipv6 showaddress	IPv6 addresses including validity displays
ip -6 route show route -A inet6 -n	Show IPv6 routing table
ip -6 neighb show	Mapping IPv6 addresses to MAC addresses

ip -6 route get to {ipv6_addr}	Destination cache incl. PMTU values
test -f /proc/net/if_inet6 && echo	check if IPv6 is active

macOS since 10.7

Command	Function
ifconfig -a ifconfig -L	displays all interface details shows the period of validity of the addresses
ping6 ::1 traceroute6 {ipv6-host}	Test IPv6 protocol host internally (localhost)
netstat-f inet	show all IPv6 connections
netstat -g	show multicast groups
netstat -rnf inet6	Show IPv6 routing table
ndp -a	Mapping IPv6 addresses to MAC addresses
dscacheutil -flushcache	clear DNS cache
nettop -n -m route	View routing statistics in real time
nettop -n	Show TCP & UDP sockets in real time