

A summary of various troubleshooting commands for common client operating systems for both IPv4 and IPv6.

Apple OS X, *BSD

Ping for IPv4	/sbin/ping
Ping for IPv6	/sbin/ping6
Traceroute for IPv4	/usr/sbin/traceroute
Traceroute for IPv6	/usr/sbin/traceroute6
Interface Info	/sbin/ifconfig
IPv4 Route table	/usr/sbin/netstat -f inet -rn
IPv6 Route table	/usr/sbin/netstat -f inet6 -rn
IPv4 arp table	/usr/sbin/arp -an
IPv6 ndp table	/usr/sbin/ndp -an

Windows: Vista, 7, Server 2008 and higher

Ping for IPv4	ping -4
Ping for IPv6	ping -6
Traceroute for IPv4	tracert -4
Traceroute for IPv6	tracert -6
Interface Info	ipconfig /all
IPv4 Route table	netsh interface ipv4 show route
IPv6 Route table	netsh interface ipv6 show route
IPv4 arp table	arp -a
IPv6 ndp table	netsh interface ipv6 show neighbors

Linux

Ping for IPv4	ping
Ping for IPv6	ping6
Traceroute for IPv4	traceroute -4
Traceroute for IPv6	traceroute -6
Interface Info	ip address show
IPv4 Route table	netstat -A inet -rn
IPv6 Route table	netstat -A inet6 -rn
IPv4 arp table	arp -an
IPv6 ndp table	ip -6 neighbor show

Notes:

- Paths differ between distributions.
- traceroute6 is usually installed as a hard link to traceroute and defaults to using the -6

Network Troubleshooting Tools, IPv4 and IPv6

Written by tag

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flag. Forcing the -4 or -6 options is useful to make sure you are using the correct ip version during troubleshooting.

Solaris

Ping for IPv4	/usr/sbin/ping -A inet
Ping for IPv6	/usr/sbin/ping -A inet6
Traceroute for IPv4	/usr/sbin/traceroute -A inet
Traceroute for IPv6	/usr/sbin/traceroute -A inet6
Interface Info	/bin/netstat -ain
IPv4 Route table	/bin/netstat -f inet -rn
IPv6 Route table	/bin/netstat -f inet6 -rn
IPv4 arp table	/bin/netstat -pn -f inet
IPv6 ndp table	/bin/netstat -pn -f inet6