

IPv6 OS Command Cheat Sheet

General IPv6 Commands

OS	Display IPv6 routing table	ping6	traceroute6	Display IPv6 Addresses	Display IPv6 connections	Flush DNS cache
Mac OS X	netstat -rnf inet6	ping6	traceroute6	ifconfig -a inet6	netstat -f inet6	10.3, 10.4: lookupd -flushcache 10.5: dscacheutil -flushcache
Solaris	netstat -rnf inet6	ping -A inet6	traceroute -A inet6	ifconfig -a6	netstat -f inet6	8, 9: /etc/init.d/nscd stop && /etc/init.d/nscd st 10: svcadm restart name-service-cache
Linux	netstat -rnA inet6 or ip -6 r	ping6	traceroute6	ip -6 address show	netstat -A inet6 /netstat -inet6 or ss	/etc/rc.d/init.d/nscd restart
AIX	netstat -rnf inet6	ping -a inet6*	traceroute6	ifconfig -a inet6		
FreeBSD	netstat -rnf inet6	ping6	traceroute6	ifconfig -a inet6	netstat -f inet6	/etc/rc.d/named restart
Windows	netstat -rn or netsh interface ipv6 show routes	ping -6 or in newer just ping	tracert -6	ipconfig	netstat -p IPv6	ipconfig /flushdns
z/OS (TSO)	NETSTAT ROUTE ADDRTYPE IPV6	PING X (Addrtype ipv6	TRACERTE X (Addrtype ipv6		NETSTAT SOCKETS	
z/OS (Unix)	netstat -r ADDRTYPE IPV6	ping -A ipv6 X	traceroute -A ipv6 X		netstat -s	
Vyatta	show ipv6 route	ping6	traceroute6			

Neighbor Discovery Cache commands

OS	Display neighbor cache	Delete one entry	Flush neighbor cache
Mac OS X	ndp -a	ndp -d	ndp -c
Solaris	netstat -pf inet6		ip -6 neigh flush
Linux	ip -6 neigh show		
AIX	ndp -a	ndp -d	ndp -c
FreeBSD	ndp -a	ndp -d	ndp -c
Windows	netsh interface ipv6 show neighbors		netsh interface ipv6 delete neighbors
IOS	show ipv6 neighbors		clear ipv6 neighbors
JunOS	show ipv6 neighbors		clear ipv6 neighbors
z/OS (TSO)	NETSTAT ND		
z/OS (Unix)	netstat -n		
Vyatta	show ipv6 neighbors		clear ipv6 neighbors

Miscellaneous

OS	Show stateless-autoconfig address lifetime	Show multicast group membership
Mac OS X	ifconfig -L	netstat -g
Solaris		netstat -gf inet6
Linux	ip -f inet6 addr show	netstat -gA inet6 -or ip -6 maddr show
AIX		ifmcstat -f inet6 -or netstat -gf inet6 (the latter is deprecated)
FreeBSD	ifconfig -L	netsh interface ipv6 show joins
Windows	netsh interface ipv6 show address	

DHCPv6

OS	Show lease time	Release lease	Renew Lease	Manually start client
Mac OS X	N/A	N/A	N/A	
Solaris 10	netstat -D -or ifconfig XX inet6 dhcp status	ifconfig XX inet6 dhcp release [†]	ifconfig XX inet6 dhcp extend	ifconfig XX inet6 dhcp start
Fedora DHCPv6				
AIX 5.3				
ISC 4.1		dhclient -6 -r		
WIDE DHCPv6		dhcp6ctl -C stop interfaceXX		
Windows Vista/7	ipconfig /all	ipconfig /release6	ipconfig /renew6	
HP-UX 11i		dhcpv6client_ui -r		dhcpv6client_ui -m XX

IPv6 Crash course from the Linux folks: <https://www.linux.com/training-tutorials/ipv6-crash-course-linux/>

A Bash ULA Generator: <https://github.com/adeverteuil/bash-ula-generator>

[RFC8504: IPv6 Node Requirements Best Current Practice 220](#)

[RFC8200: \(STD 86\) Internet Protocol Version 6 \(IPv6\) Specification](#)

[RFC4291: IP Version 6 Addressing Architecture](#)

[RFC4861: Neighbor Discovery for IP version 6 \(IPv6\)](#)

[RFC4862: IPv6 Stateless Address Autoconfiguration](#)

[RFC4941: Privacy Extensions for Stateless Address Autoconfiguration in IPv6](#)

[RFC4443: Internet Control Message Protocol \(ICMPv6\) for the Internet Protocol Version 6 \(IPv6\) Specification](#)

[RFC8106: IPv6 Router Advertisement Options for DNS Configuration](#)

[RFC8415: Dynamic Host Configuration Protocol for IPv6 \(DHCPv6\)](#)

[RFC3596: DNS Extensions to Support IP Version 6](#)

[RFC6724: Default Address Selection for Internet Protocol Version 6 \(IPv6\)](#)

[RFC7381: Enterprise IPv6 Deployment Guidelines](#)

[All our IPv6 related Articles](#)

[An IPv6 Profile for Wireshark](#)

[Our profiles for Wireshark repository](#)

[Reference Library at the Online School](#)

