

Basic IPv6 Commands Linux/Win

	Linux	Win
Allgemeines		
Kommando	ip	netsh
IPv6/IPv4	ip -6 → IPv6 ip -4 → IPv4	netsh int ipv6 → IPv6 netsh int ip → IPv4
Hilfe	man ip .. und an (fast) beliebiger Stelle " help " verwenden, z.B.: ip -6 help ip -6 address help ip -6 route help	an (fast) beliebiger Stelle "?" verwenden, z.B.: netsh int ipv6 ? netsh int ipv6 show ? netsh int ipv6 add ?
Informationen		
Interface (OSI 2)	ip -6 link show [dev device]	netsh int ipv6 show interface [IFNumber] \ [level=verbose]
IPv4 → ARP IPv6 → NDIS	ip -6 neighbor show [dev device]	netsh int ipv6 show neighbors [IFNumber]
Adressen	ip -6 address show [dev device]	netsh int ipv6 show address [IFNumber] \ [level=verbose]
Mcast Adressen	ip -6 maddress show [dev device]	netsh int ipv6 show joins [IFNumber] \ [level=verbose]
Routing Tabelle	ip -6 route show [dev device]	netsh int ipv6 show routes [level=verbose]
Adress Manipulation		
IPv6 Adr. zufügen	ip -6 address add \ IPv6Address/Length dev device	netsh int ipv6 add address \ IFNumber IPv6Address
IPv6 Adr. löschen	ip -6 address delete \ Ipv6Address/Length dev device	netsh int ipv6 delete address \ IFNumber IPv6Address
Route Manipulation		
Default Route anlegen	ip -6 route add default via NextHopIPv6 \ [dev device]	netsh int ipv6 add route ::/0 \ IFNumber [NextHopIPv6]
Route anlegen	ip -6 route add to IPv6Prefix/Length \ via NextHopIPv6 [dev device]	netsh int ipv6 add route IPv6Prefix/Length \ IFNumber [NextHopIPv6]
Route löschen	ip -6 route add to IPv6Prefix/Length \ via NextHopIPv6 [dev device]	netsh int ipv6 delete route IPv6Prefix/Length \ IFNumber [NextHopIPv6]
IPv6 Konfiguration dauerhaft speichern		
	editieren der Datei /etc/network/interfaces Beispiel: # Schnittstelle iface eth0 inet6 static address fd00:0:0:1::a netmask 64 gateway fd00:0:0:1::1 # Routen up ip -6 route add to fd00:0:0:2/64 \ via fd00:0:0:1::2 dev eth0	.. als letzten Parameter der Kommandozeile kann [store=] persistant verwendet werden um die Konfiguration dauerhaft zu machen – ist aber schon die default Einstellung Für store ist ausser persistant noch die Einstellung active möglich: die Einstellungen sind nur bis zum nächsten Reboot aktiv.