

Windows Network Management from the command line

Get interface metrics

```
# IPv4 - Display interfaces sorted by metric and alias
```

```
Get-NetIPInterface -AddressFamily IPv4 | Sort InterfaceMetric,InterfaceAlias
```

```
# IPv6 - Display interfaces sorted by metric and alias
```

```
Get-NetIPInterface -AddressFamily IPv6 | Sort InterfaceMetric,InterfaceAlias
```

```
# All - Display interfaces sorted by metric and alias
```

```
Get-NetIPInterface | Sort InterfaceMetric,InterfaceAlias
```

Set interface metrics

The following commands will set Ethernet interfaces to be preferred over wireless interfaces by manipulating the InterfaceMetric of each device. If there are more than one Ethernet and/or Wireless interface on the machine, you may want to adjust these metrics further to provide a more detailed use order.

```
# Set Ethernet devices interface metric to 11
```

```
Get-NetAdapter -Physical | Where {$_.MediaType -eq "802.3"} | Set-NetIPInterface -InterfaceMetric 11
```

```
# Set Wireless devices interface metric to 12
```

```
Get-NetAdapter -Physical | Where {$_.MediaType -eq "Native 802.11"} | Set-NetIPInterface -InterfaceMetric 12
```

netsh and firewall

```
# turn off Windows firewall for all profiles
```

```
netsh advfirewall set allprofiles state off
```

netsh wireless

```
# show wireless LAN interfaces on the system
```

```
netsh wlan show interfaces
```

```
# show properties of the wireless LAN drivers on the system
```

```
netsh wlan show drivers
```

```
# show list of networks visible on the system
```

```
netsh wlan show networks
```

```
# show more detailed information on visible networks
```

```
netsh wlan show networks mode=bssid
```

```
# show a list of profiles configured on the system
```

```
netsh wlan show profiles
```

```
# connect to an SSID using a Profile
```

```
netsh wlan connect ssid=[ssid] name=[profile]
```

```
# disconnect all wireless interfaces
netsh wlan disconnect
```

Setting IPv4 address using netsh

```
netsh interface ipv4 show config
```

```
# set IPv4 address and dns on an interface using dhcp
netsh interface ipv4 set address name="Ethernet" source=dhcp
netsh interface ipv4 set dns name="Ethernet" source=dhcp
```

```
# set IPv4 address on an interface
netsh interface ipv4 set address name="Ethernet" static 10.1.1.84 255.255.255.0 10.1.1.1
```

```
# set DNS servers on an interface
netsh interface ipv4 set dns name="Ethernet" static 8.8.8.8 1.1.1.1
```

#end

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