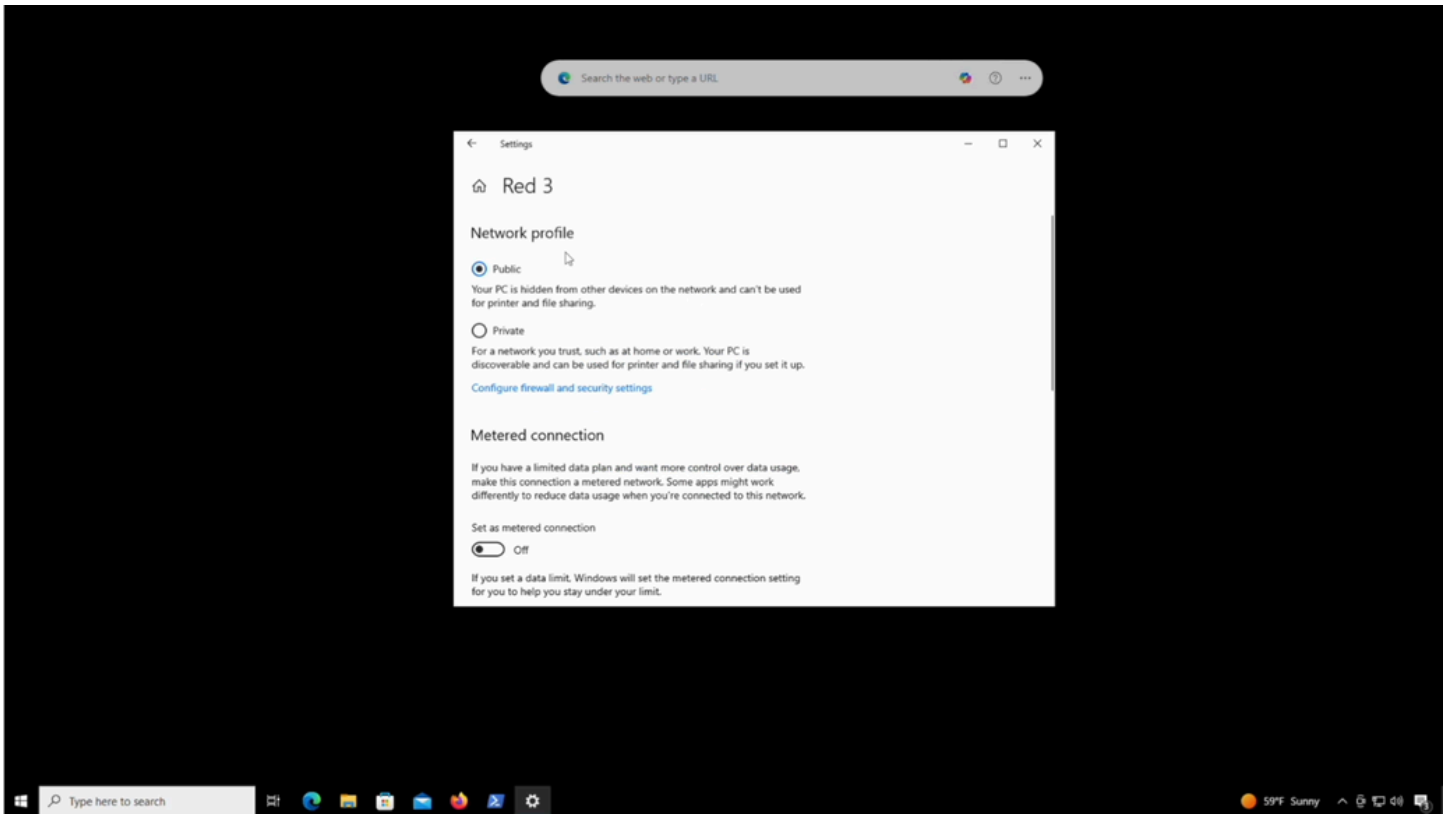
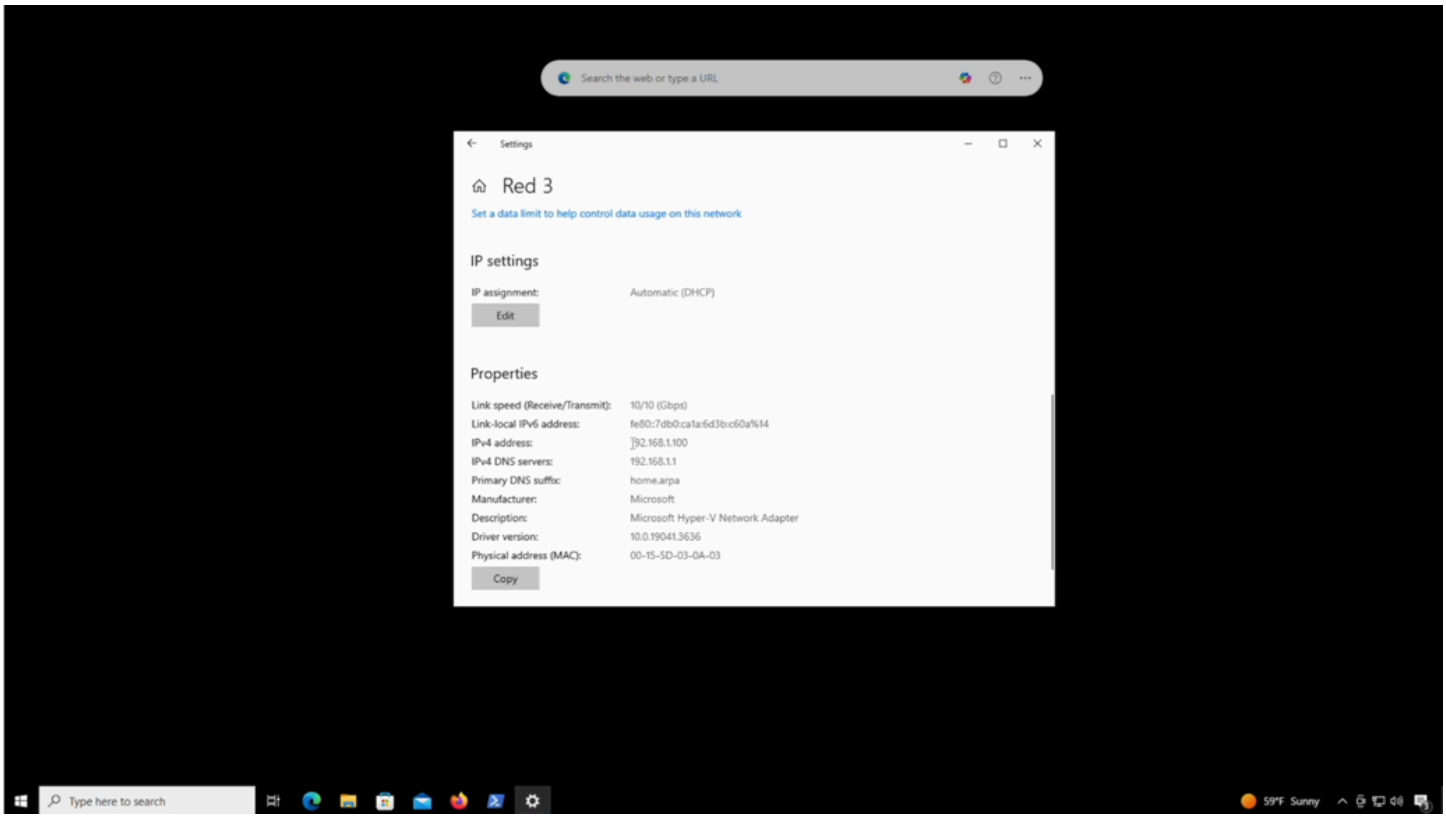

Search the web or type a URL
Settings
Red 3
Network profile
Public
Your PC is hidden from other devices on the network and can't be used for printer and file sharing.
Private
For a network you trust, such as at home or work. Your PC is discoverable and can be used for printer and file sharing if you set it up.
Configure firewall and security settings
Metered connection
If you have a limited data plan and want more control over data usage, make this connection a metered network. Some apps might work differently to reduce data usage when you're connected to this network.
Set as metered connection
Off
If you set a data limit, Windows will set the metered connection setting for you to help you stay under your limit.
Type here to search
59°F Sunny


Search the web or type a URL
Settings
Red 3
Set a data limit to help control data usage on this network
IP settings
IP assignment: Automatic (DHCP)
Edit
Properties
Link speed (Receive/Transmit): 10/10 (Gbps)
Link-local IPv6 address: fe80::7db0:ca1a:6d3b:c60a%14
IPv4 address: 192.168.1.100
IPv4 DNS servers: 192.168.1.1
Primary DNS suffix: home.arpa
Manufacturer: Microsoft
Description: Microsoft Hyper-V Network Adapter
Driver version: 10.0.19041.3636
Physical address (MAC): 00-15-5D-03-0A-03
Copy
Type here to search
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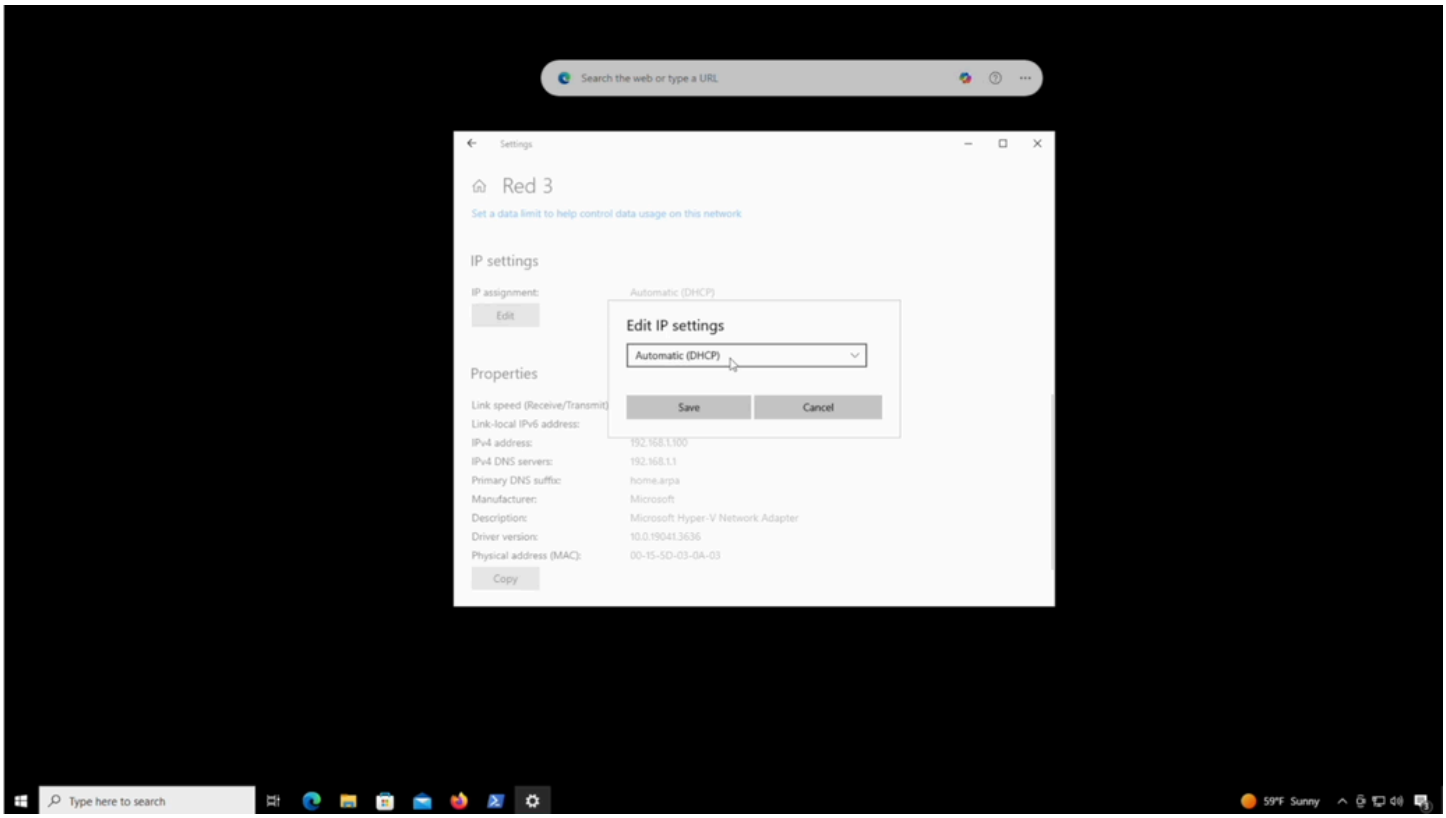
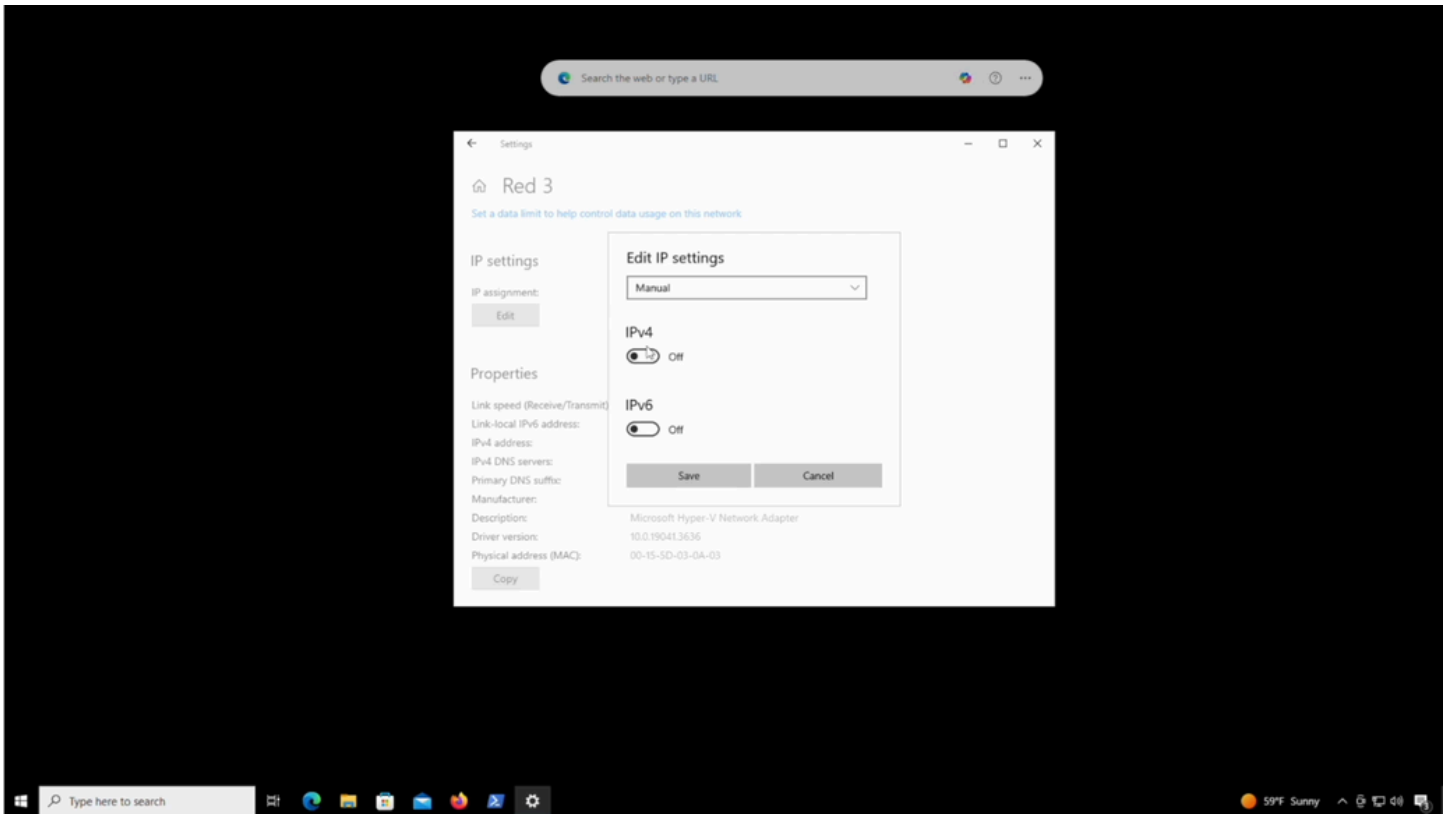
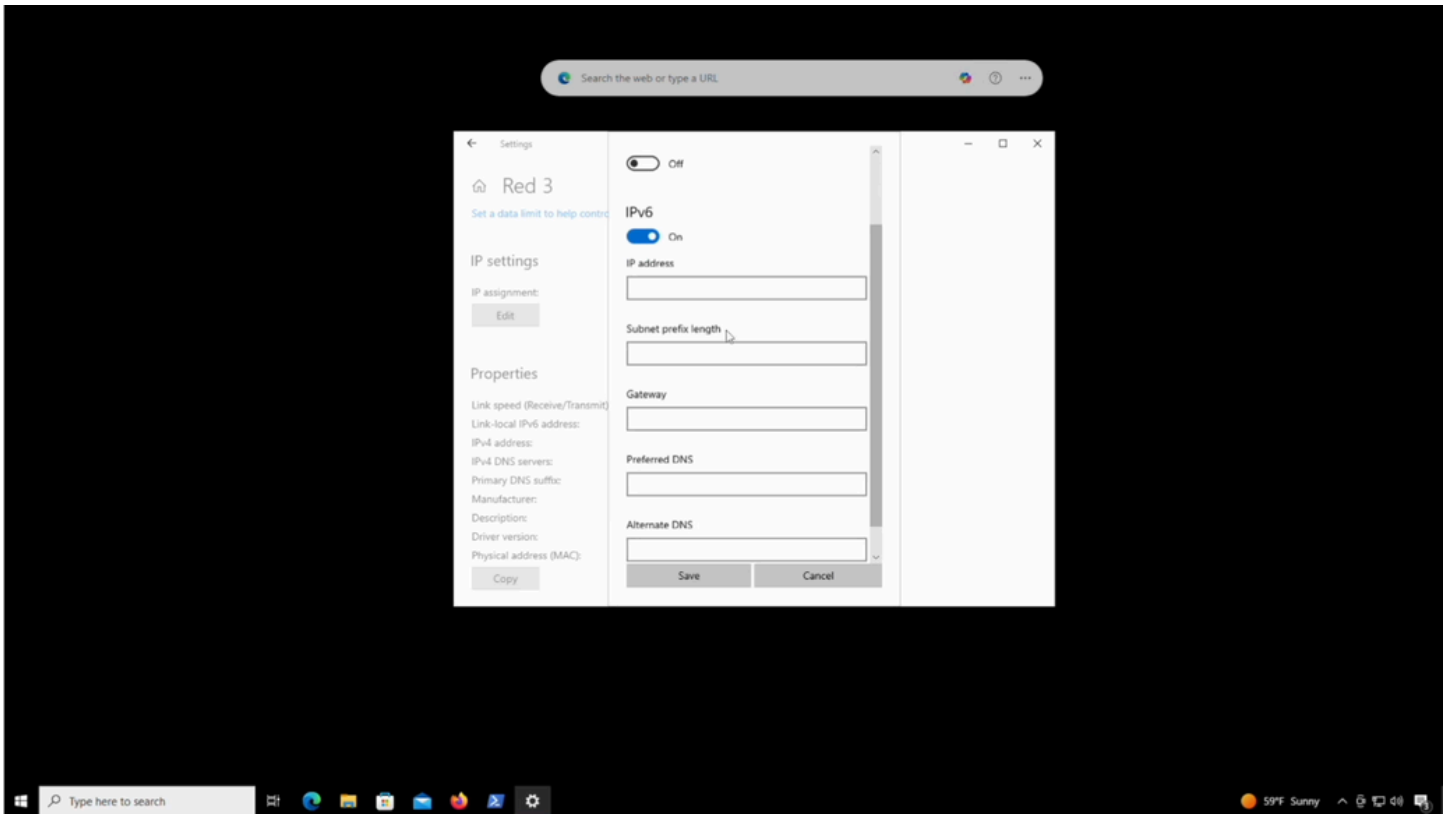
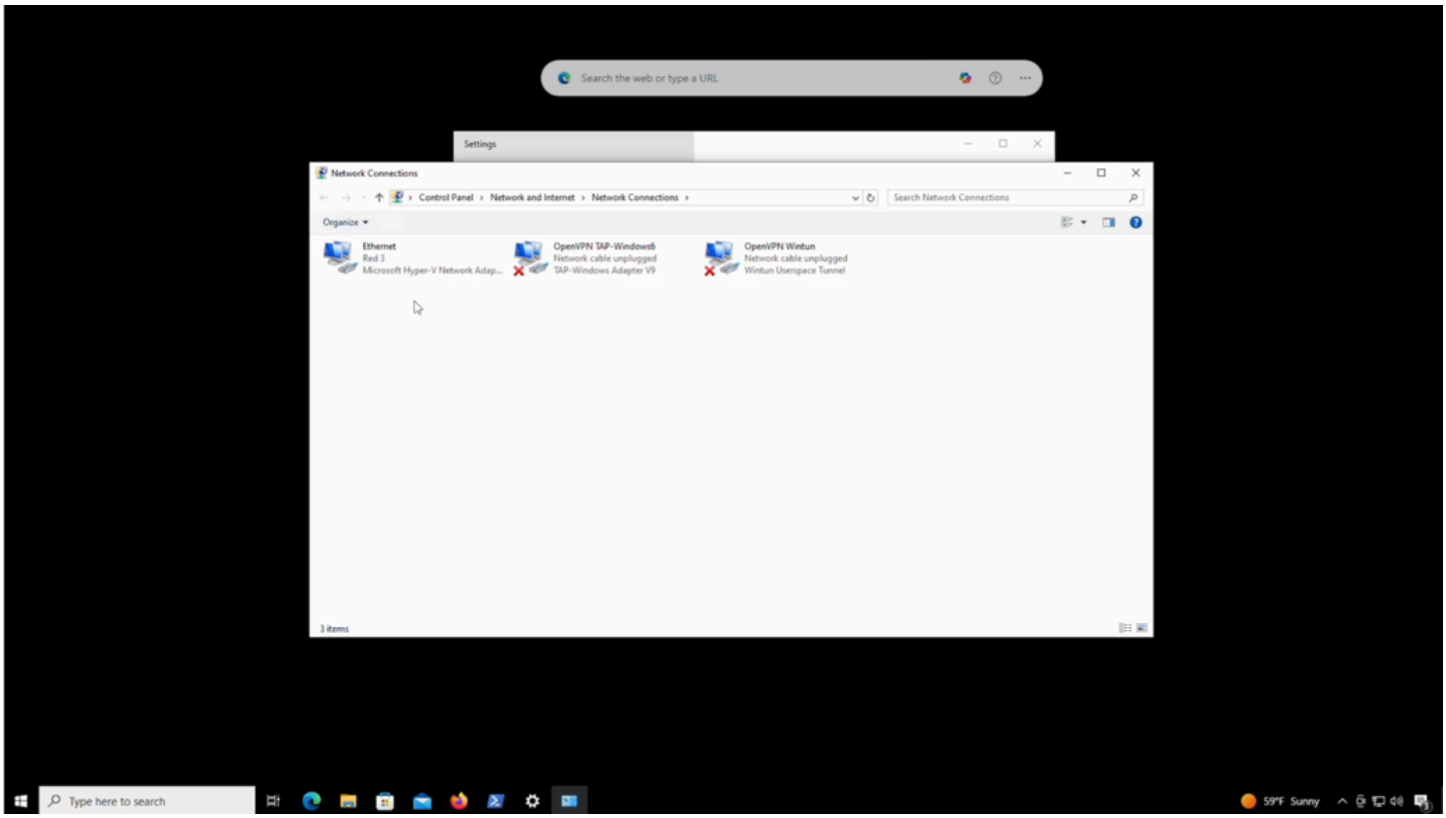
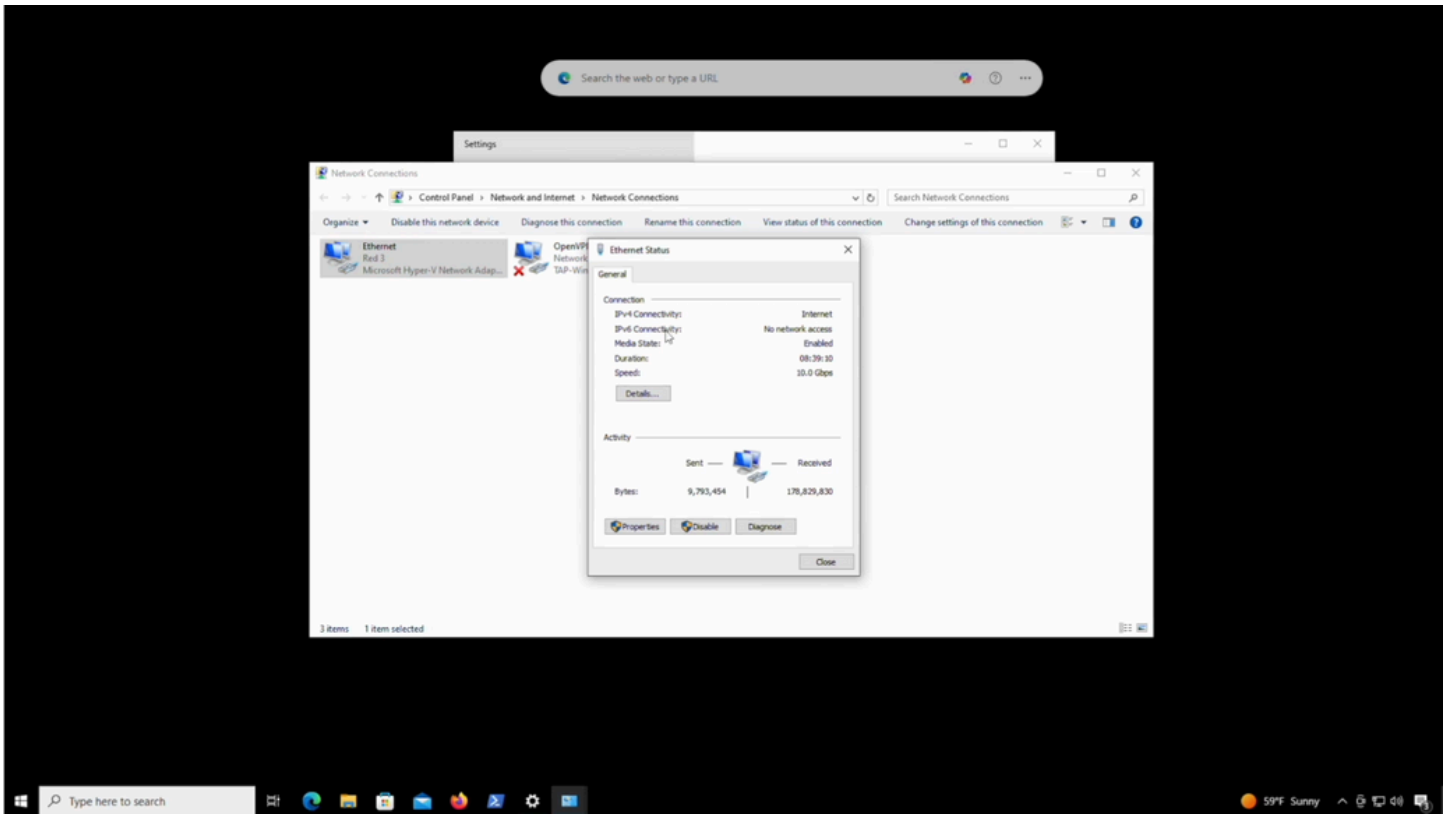
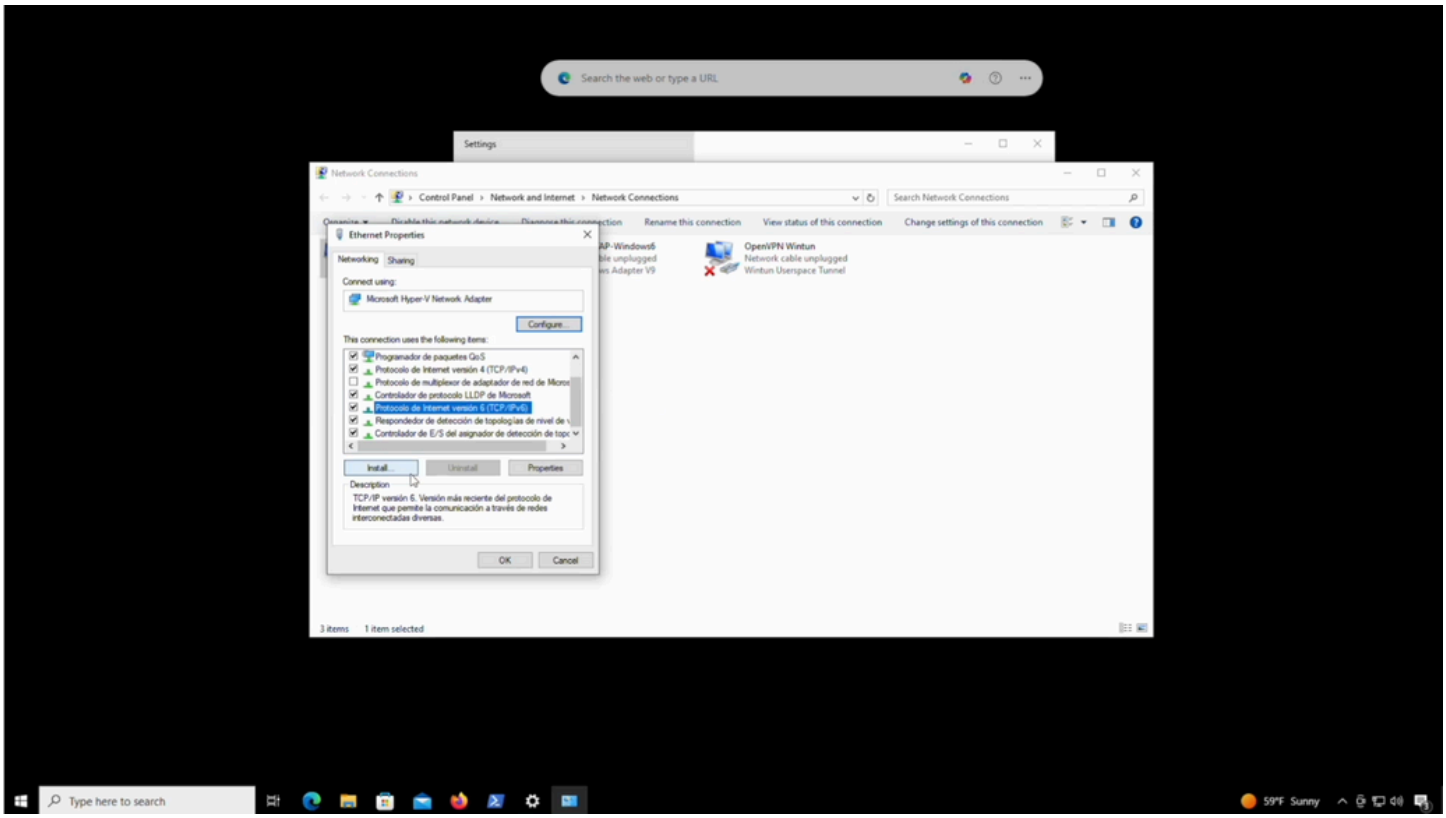

Search the web or type a URL
Settings
Red 3
Set a data limit to help control data usage on this network
IP settings
IP assignment:
Automatic (DHCP)
Edit
Edit IP settings
Automatic (DHCP)
Save
Cancel
Properties
Link speed (Receive/Transmit):
Link-local IPv6 address:
IPv4 address:
192.168.1.100
IPv4 DNS servers:
192.168.1.1
Primary DNS suffix:
home.arpa
Manufacturer:
Microsoft
Description:
Microsoft Hyper-V Network Adapter
Driver version:
10.0.19041.3636
Physical address (MAC):
00-15-5D-03-0A-03
Copy
Type here to search
59°F Sunny

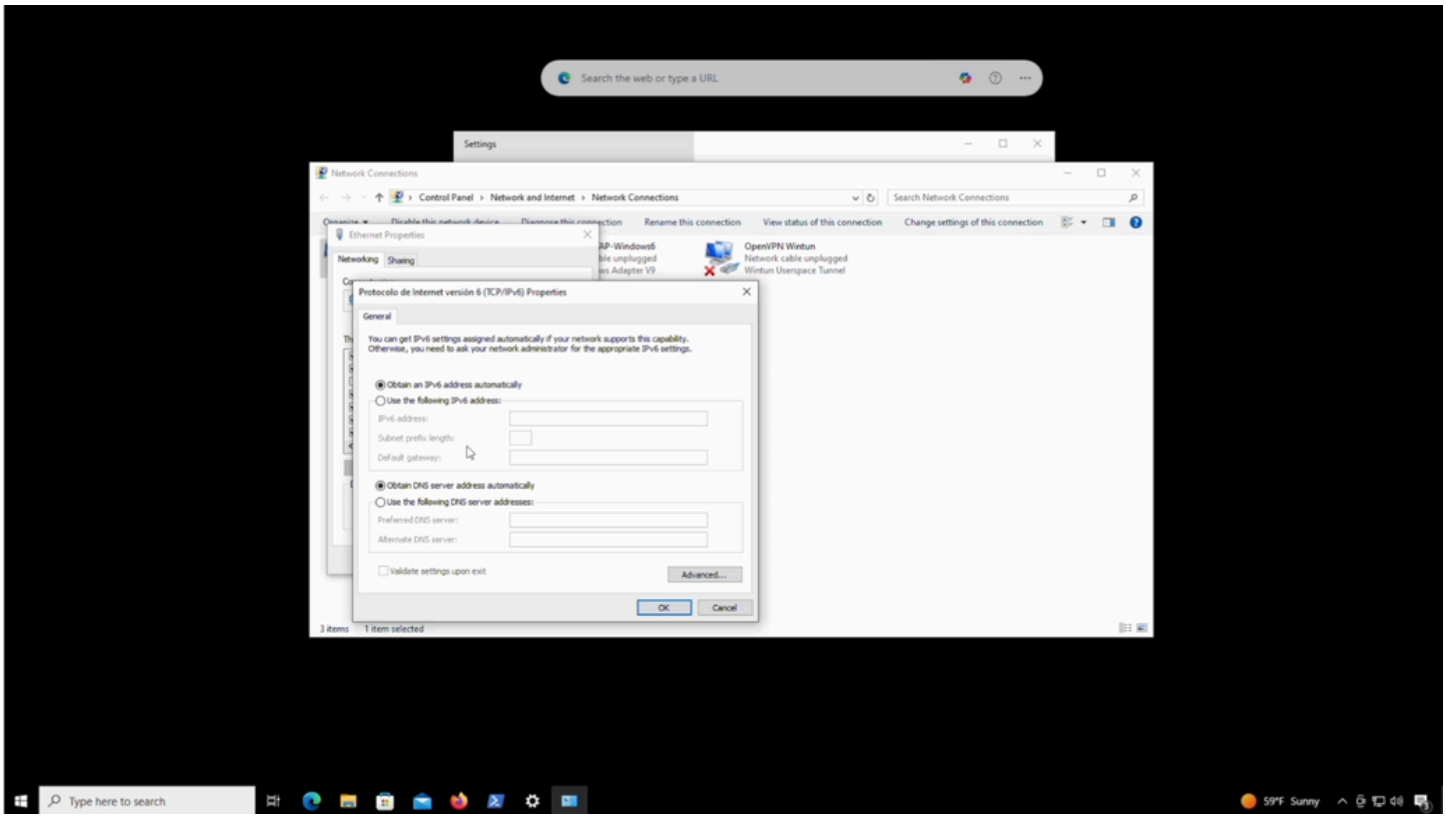

Search the web or type a URL
Settings
Red 3
Set a data limit to help control data usage on this network
IP settings
IP assignment:
Edit
Edit IP settings
Manual
IPv4
Off
IPv6
Off
Save
Cancel
Properties
Link speed (Receive/Transmit):
Link-local IPv6 address:
IPv4 address:
IPv4 DNS servers:
Primary DNS suffix:
Manufacturer:
Description:
Microsoft Hyper-V Network Adapter
Driver version:
10.0.19041.3636
Physical address (MAC):
00-15-5D-03-0A-03
Copy
Type here to search
59°F Sunny

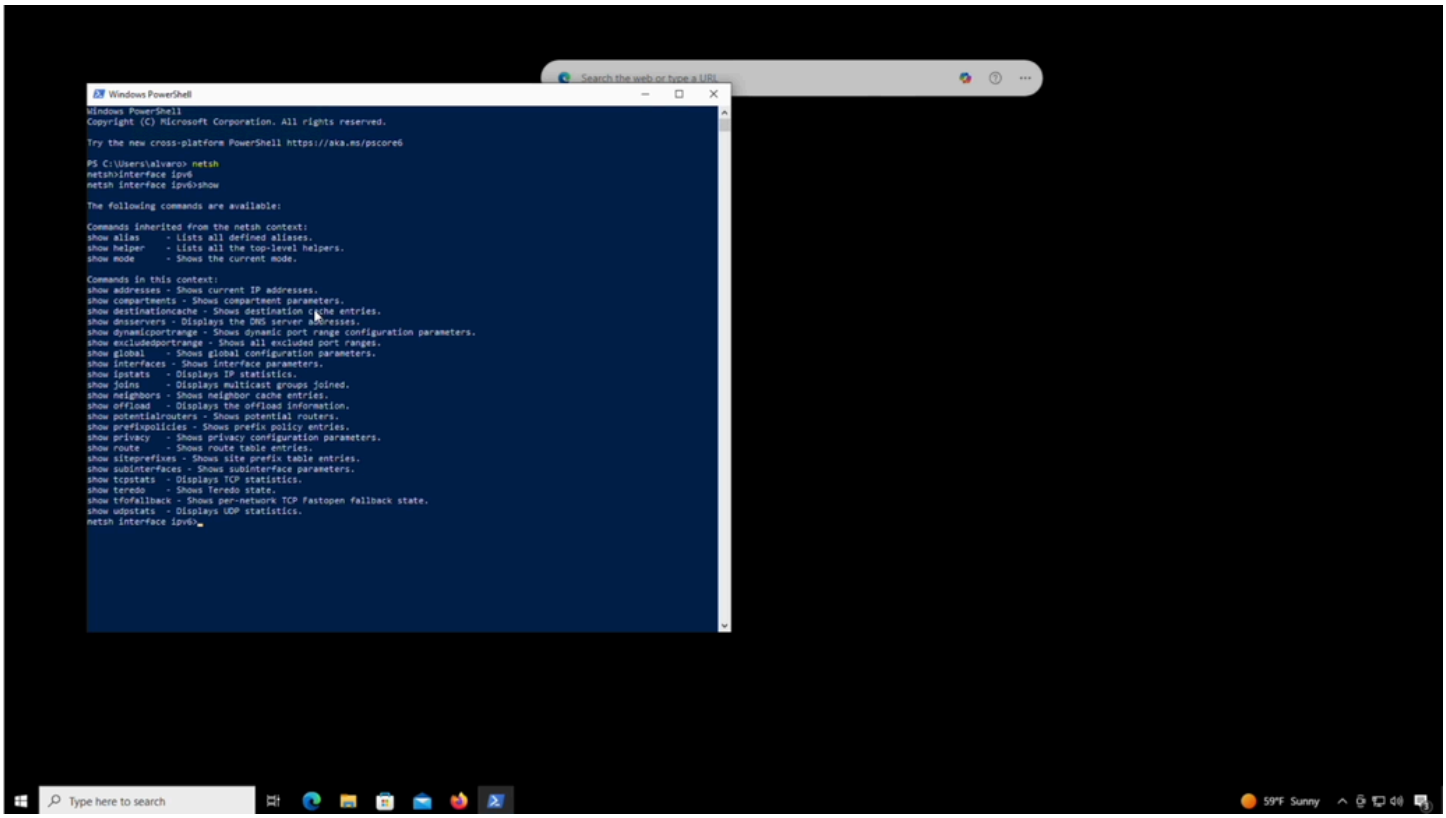

Search the web or type a URL
Settings
Red 3
Set a data limit to help contro
IP settings
IP assignment:
Edit
Properties
Link speed (Receive/Transmit):
Link-local IPv6 address:
IPv4 address:
IPv4 DNS servers:
Primary DNS suffix:
Manufacturer:
Description:
Driver version:
Physical address (MAC):
Copy
Off
IPv6
On
IP address
Subnet prefix length
Gateway
Preferred DNS
Alternate DNS
Save
Cancel
Type here to search
59°F Sunny


Search the web or type a URL
Settings
Network Connections
Control Panel › Network and Internet › Network Connections ›
Search Network Connections
Organize
Ethernet
Red 3
Microsoft Hyper-V Network Adap...
OpenVPN TAP-Windows6
Network cable unplugged
TAP-Windows Adapter V9
OpenVPN Wintun
Network cable unplugged
Wintun Userspace Tunnel
3 items
Type here to search
59°F Sunny

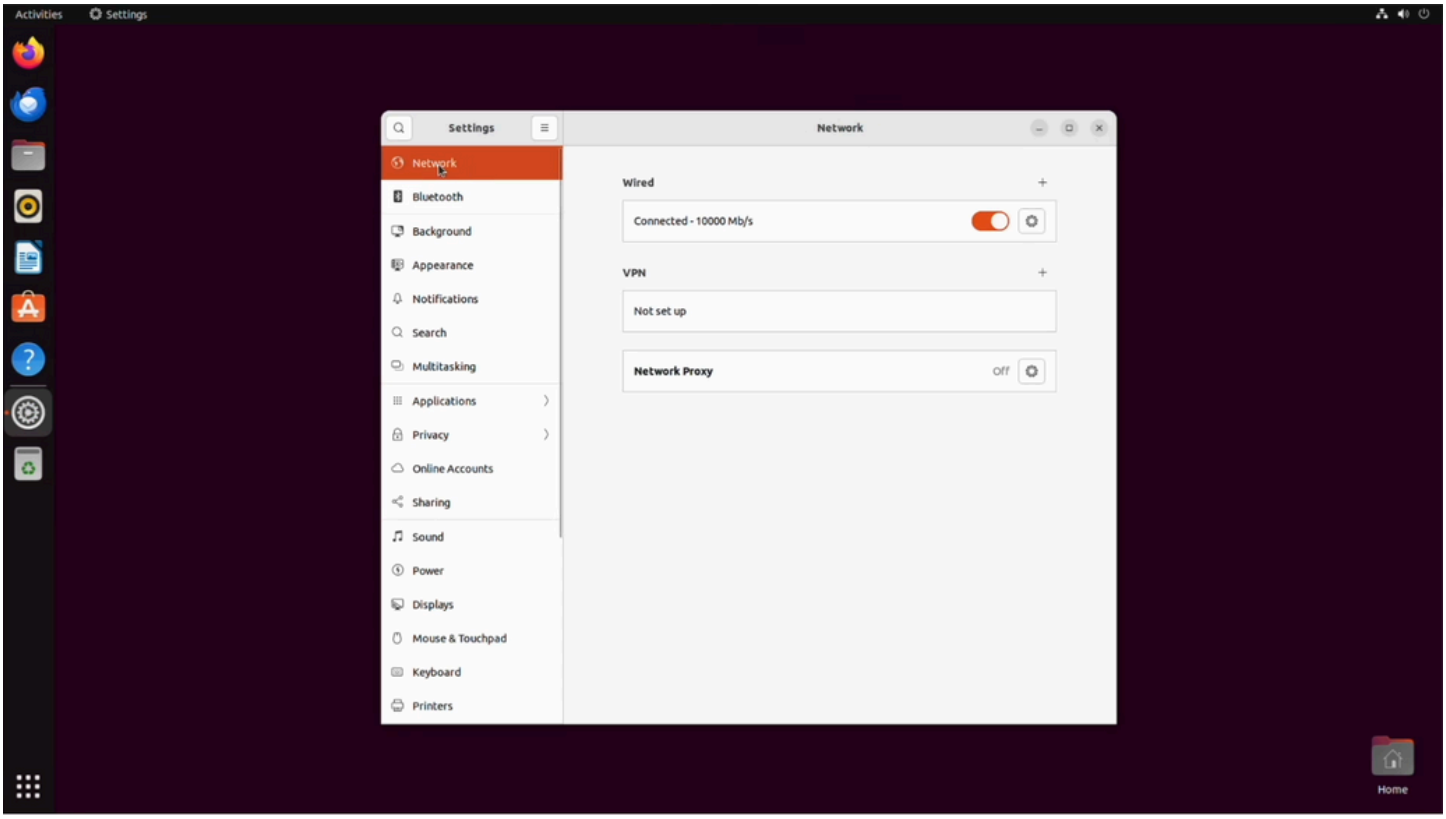

Search the web or type a URL
Settings
Network Connections
Control Panel › Network and Internet › Network Connections
Search Network Connections
Organize
Disable this network device
Diagnose this connection
Rename this connection
View status of this connection
Change settings of this connection
Ethernet
Red 3
Microsoft Hyper-V Network Adap...
Ethernet Status
General
Connection
IPv4 Connectivity: Internet
IPv6 Connectivity: No network access
Media State: Enabled
Duration: 08:39:10
Speed: 10.0 Gbps
Details...
Activity
Sent
Received
Bytes: 9,793,454 178,829,830
Properties
Disable
Diagnose
Close
3 items
1 item selected
Type here to search
59°F Sunny

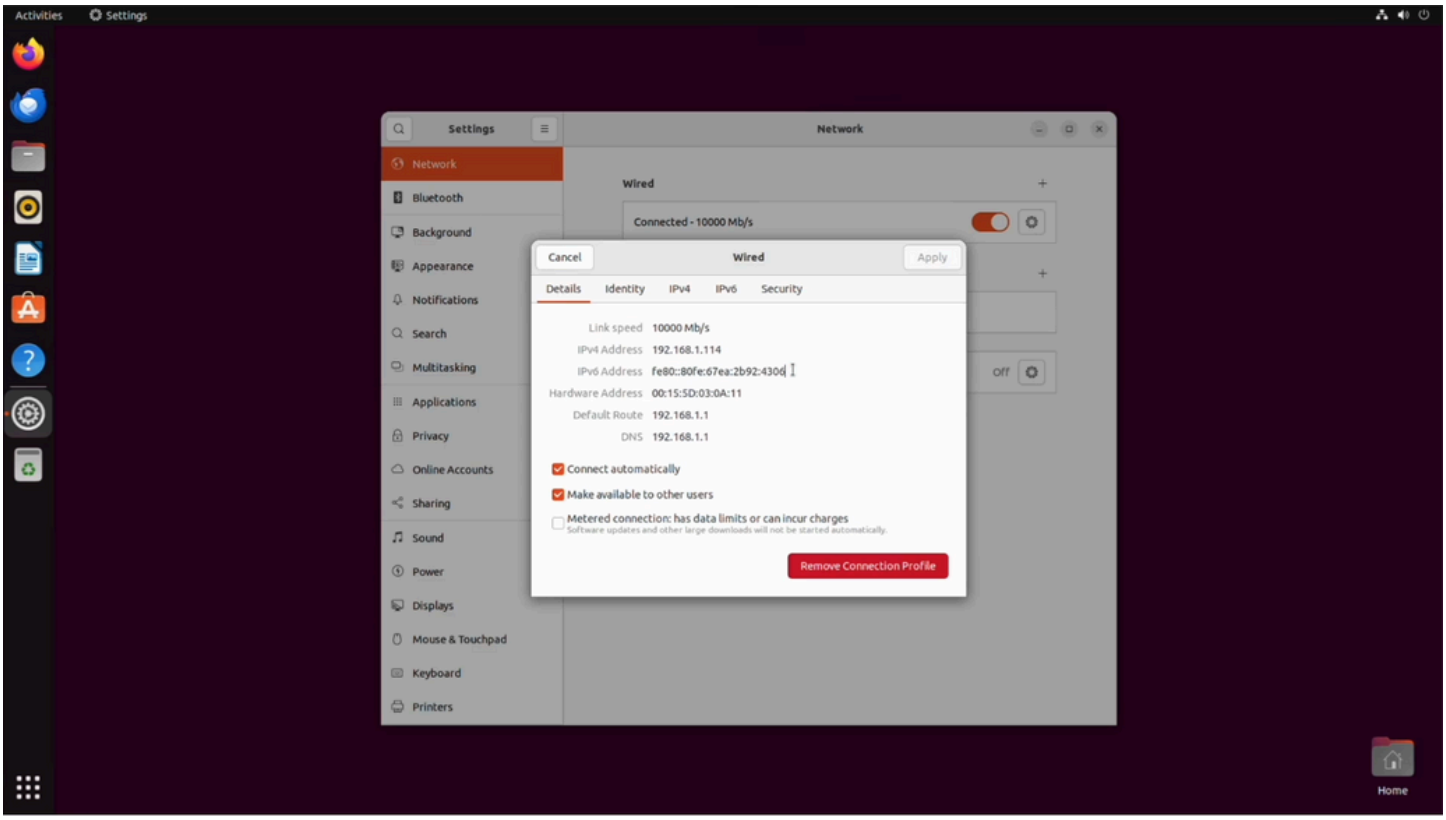

Search the web or type a URL
Settings
Network Connections
Control Panel › Network and Internet › Network Connections
Search Network Connections
Rename this connection
View status of this connection
Change settings of this connection
OpenVPN Wintun
Network cable unplugged
Wintun Userspace Tunnel
Ethernet Properties
Networking
Sharing
Connect using:
Microsoft Hyper-V Network Adapter
Configure...
This connection uses the following items:
Programador de paquetes QoS
Protocolo de Internet versión 4 (TCP/IPv4)
Protocolo de multiplexor de adaptador de red de Micros
Controlador de protocolo LLDP de Microsoft
Protocolo de Internet versión 6 (TCP/IPv6)
Respondedor de detección de topologías de nivel de
Controlador de E/S del asignador de detección de topo
Install...
Uninstall
Properties
Description
TCP/IP versión 6. Versión más reciente del protocolo de Internet que permite la comunicación a través de redes interconectadas diversas.
OK
Cancel
3 items
1 item selected
Type here to search
59°F Sunny

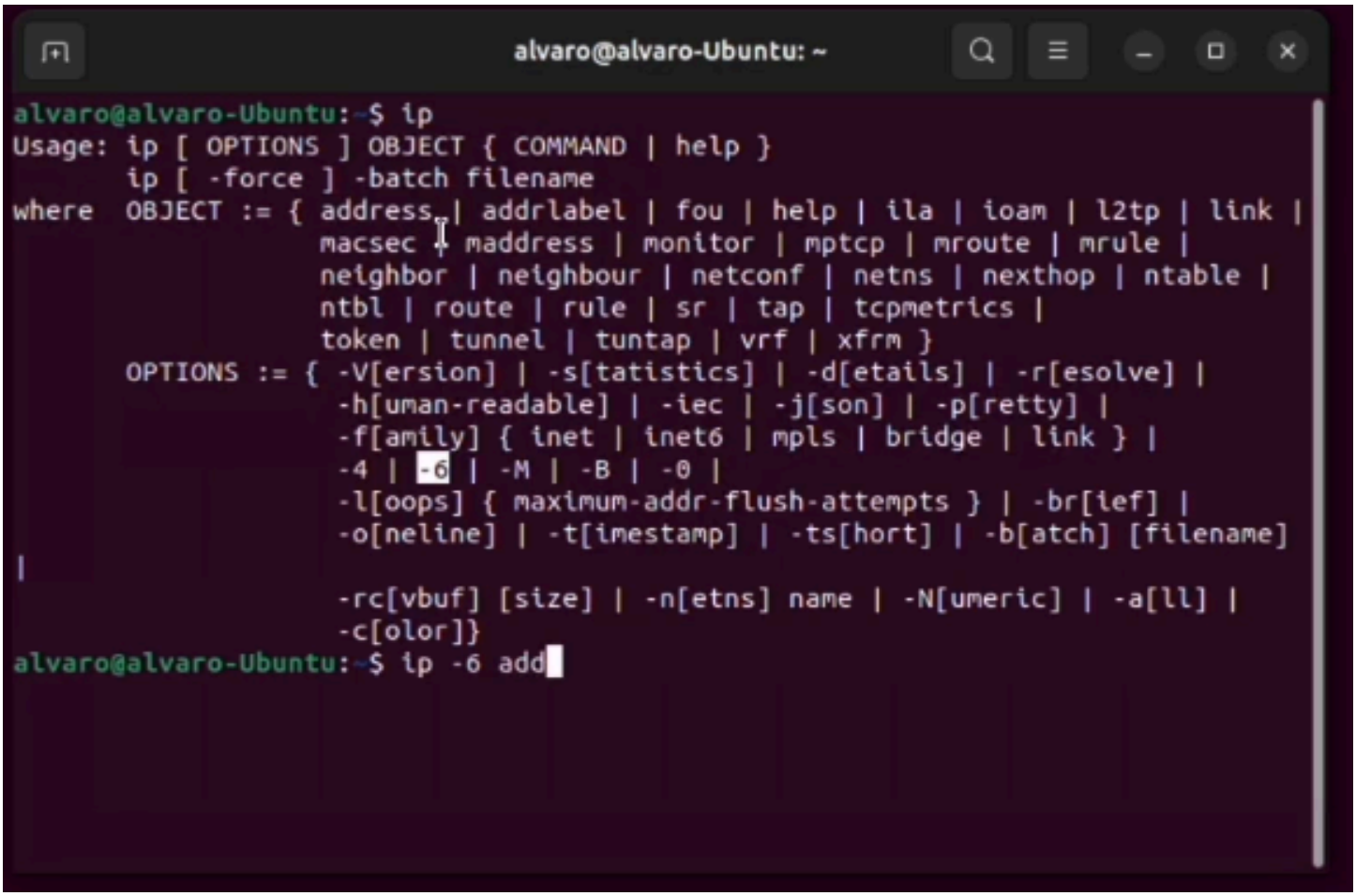

Search the web or type a URL
Settings
Network Connections
Control Panel › Network and Internet › Network Connections
Search Network Connections
Organize
Disable this network device
Diagnose this connection
Rename this connection
View status of this connection
Change settings of this connection
Ethernet Properties
Networking
Sharing
OpenVPN Wintun
Network cable unplugged
Wintun Userspace Tunnel
Protocolo de Internet versión 6 (TCP/IPv6) Properties
General
You can get IPv6 settings assigned automatically if your network supports this capability. Otherwise, you need to ask your network administrator for the appropriate IPv6 settings.
Obtain an IPv6 address automatically
Use the following IPv6 address:
IPv6 address:
Subnet prefix length:
Default gateway:
Obtain DNS server address automatically
Use the following DNS server addresses:
Preferred DNS server:
Alternate DNS server:
Validate settings upon exit
Advanced...
OK
Cancel
3 items
1 item selected
Type here to search
59°F Sunny


Search the web or type a URL
Windows PowerShell
Windows PowerShell
Copyright (C) Microsoft Corporation. All rights reserved.
Try the new cross-platform PowerShell https://aka.ms/pscore6
PS C:\Users\alvaro> netsh
netsh>interface ipv6
netsh interface ipv6>show
The following commands are available:
Commands inherited from the netsh context:
show alias - Lists all defined aliases.
show helper - Lists all the top-level helpers.
show mode - Shows the current mode.
Commands in this context:
show addresses - Shows current IP addresses.
show compartments - Shows compartment parameters.
show destinationcache - Shows destination cache entries.
show dnsservers - Displays the DNS server addresses.
show dynamicportrange - Shows dynamic port range configuration parameters.
show excludedportrange - Shows all excluded port ranges.
show global - Shows global configuration parameters.
show interfaces - Shows interface parameters.
show ipstats - Displays IP statistics.
show joins - Displays multicast groups joined.
show neighbors - Shows neighbor cache entries.
show offload - Displays the offload information.
show potentialrouters - Shows potential routers.
show prefixpolicies - Shows prefix policy entries.
show privacy - Shows privacy configuration parameters.
show route - Shows route table entries.
show siteprefixes - Shows site prefix table entries.
show subinterfaces - Shows subinterface parameters.
show tcpstats - Displays TCP statistics.
show teredo - Shows Teredo state.
show tfofallback - Shows per-network TCP Fastopen fallback state.
show udpstats - Displays UDP statistics.
netsh interface ipv6>
Type here to search
59°F Sunny


netsh interface ipv6>show addresses
Interface 1: Loopback Pseudo-Interface 1
Addr Type DAD State Valid Life Pref. Life Address
Other Preferred infinite infinite ::1
Interface 8: OpenVPN Wintun
Addr Type DAD State Valid Life Pref. Life Address
Other Deprecated infinite infinite fe80::d7ca:a06e:b946:1299%8
Interface 14: Ethernet
Addr Type DAD State Valid Life Pref. Life Address
Other Preferred infinite infinite fe80::7db0:ca1a:6d3b:c60a%14
Interface 3: OpenVPN TAP-Windows6
Addr Type DAD State Valid Life Pref. Life Address
Other Deprecated infinite infinite fe80::6950:df63:fa9a:32ed%3
netsh interface ipv6>
Type here to search
59°F Sunny


Activities
Settings
Settings
Network
Network
Bluetooth
Background
Appearance
Notifications
Search
Multitasking
Applications
Privacy
Online Accounts
Sharing
Sound
Power
Displays
Mouse & Touchpad
Keyboard
Printers
Wired
Connected - 10000 Mb/s
VPN
Not set up
Network Proxy
Off
Home


Activities
Settings
Settings
Network
Bluetooth
Background
Appearance
Notifications
Search
Multitasking
Applications
Privacy
Online Accounts
Sharing
Sound
Power
Displays
Mouse & Touchpad
Keyboard
Printers
Network
Wired
Connected - 10000 Mb/s
Off
Cancel
Wired
Apply
Details
Identity
IPv4
IPv6
Security
Link speed 10000 Mb/s
IPv4 Address 192.168.1.114
IPv6 Address fe80::80fe:67ea:2b92:4306
Hardware Address 00:15:5D:03:0A:11
Default Route 192.168.1.1
DNS 192.168.1.1
Connect automatically
Make available to other users
Metered connection: has data limits or can incur charges
Software updates and other large downloads will not be started automatically.
Remove Connection Profile
Home


alvaro@alvaro-Ubuntu: ~
alvaro@alvaro-Ubuntu:~$ ip
Usage: ip [OPTIONS] OBJECT { COMMAND | help }
ip [-force] -batch filename
where OBJECT := { address | addrlabel | fou | help | ila | ioam | l2tp | link |
macsec | maddress | monitor | mptcp | mroute | mrule |
neighbor | neighbour | netconf | netns | nexthop | ntable |
ntbl | route | rule | sr | tap | tcpmetrics |
token | tunnel | tuntap | vrf | xfrm }
OPTIONS := { -V[ersion] | -s[tatistics] | -d[etails] | -r[esolve] |
-h[uman-readable] | -iec | -j[son] | -p[retty] |
-f[amily] { inet | inet6 | mpls | bridge | link } |
-4 | -6 | -M | -B | -0 |
-l[oops] { maximum-addr-flush-attempts } | -br[ief] |
-o[neline] | -t[imestamp] | -ts[hort] | -b[atch] [filename]
|
-rc[vbuf] [size] | -n[etns] name | -N[umeric] | -a[ll] |
-c[olor]}
alvaro@alvaro-Ubuntu:~$ ip -6 add


alvaro@alvaro-Ubuntu:~$ ip -6 address
1: lo: <LOOPBACK,UP,LOWER_UP> mtu 65536 state UNKNOWN qlen 1000
inet6 ::1/128 scope host
valid_lft forever preferred_lft forever
2: eth0: <BROADCAST,MULTICAST,UP,LOWER_UP> mtu 1500 state UP qlen 1000
inet6 fe80::80fe:67ea:2b92:4306/64 scope link noprefixroute
valid_lft forever preferred_lft forever
alvaro@alvaro-Ubuntu:~$

Conclusion

- Configuring IPv6 on different operating systems can be a relatively straightforward task thanks to the tools and functionalities integrated into modern systems.
- Both the automatic address assignment through SLAAC or DHCPv6 and manual configuration of IPv6 addresses and other network parameters are viable and accessible options for network administrators and end-users on a variety of platforms.