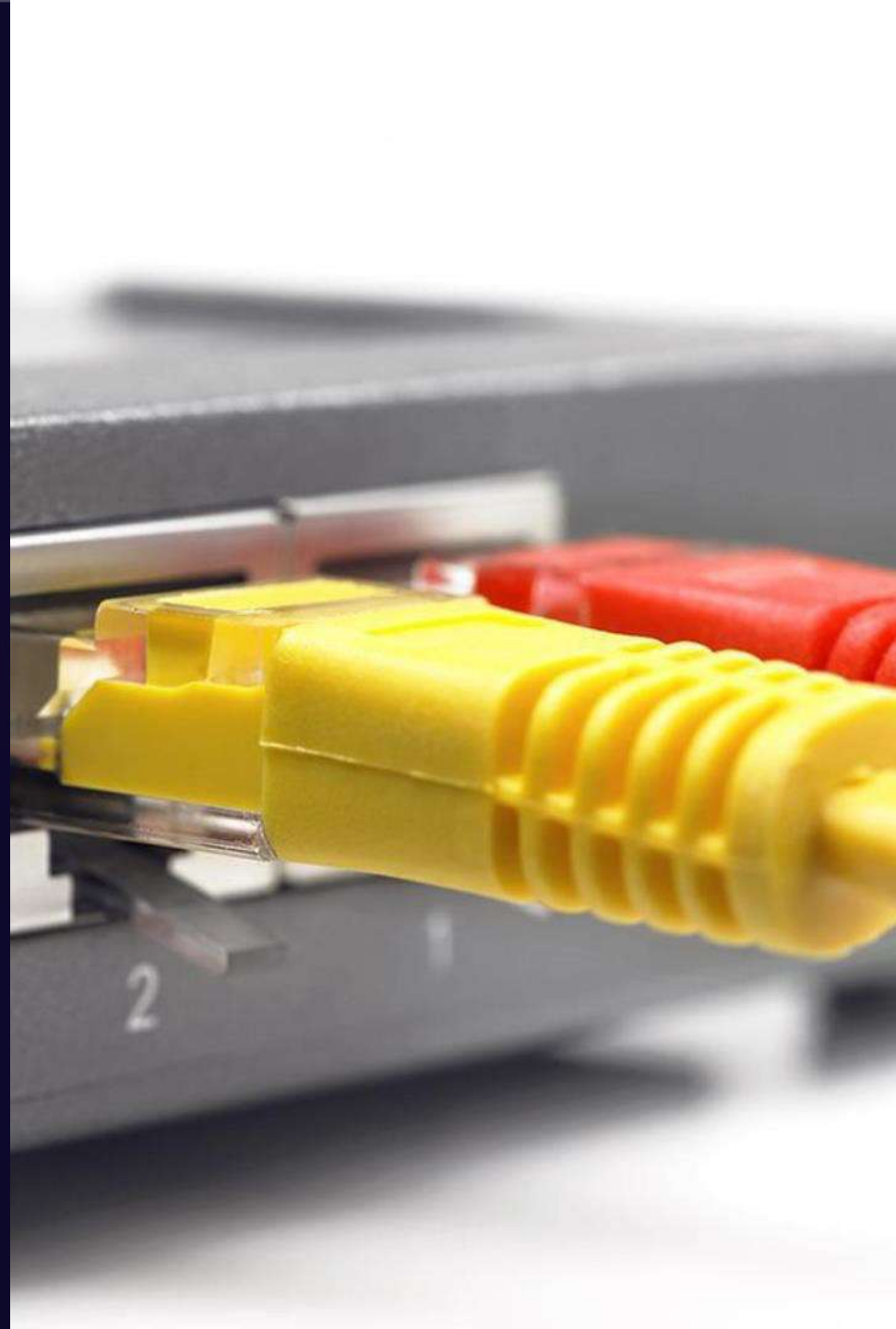
Connect 2-4 computers together using a network hub to create a LAN

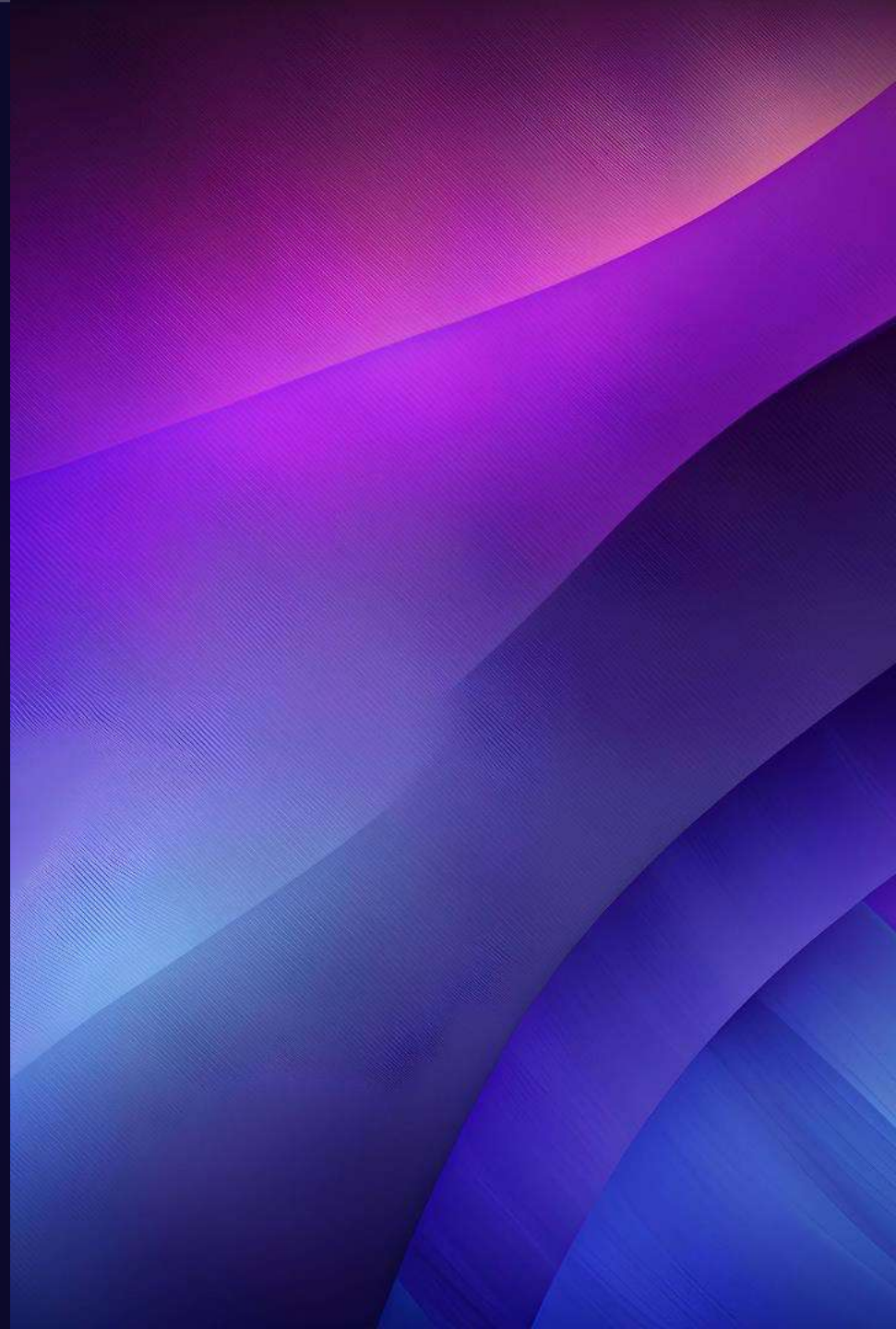
Welcome to the world of Local Area Networks! Learn how to connect multiple computers using a network hub and build your own LAN.

Group 6



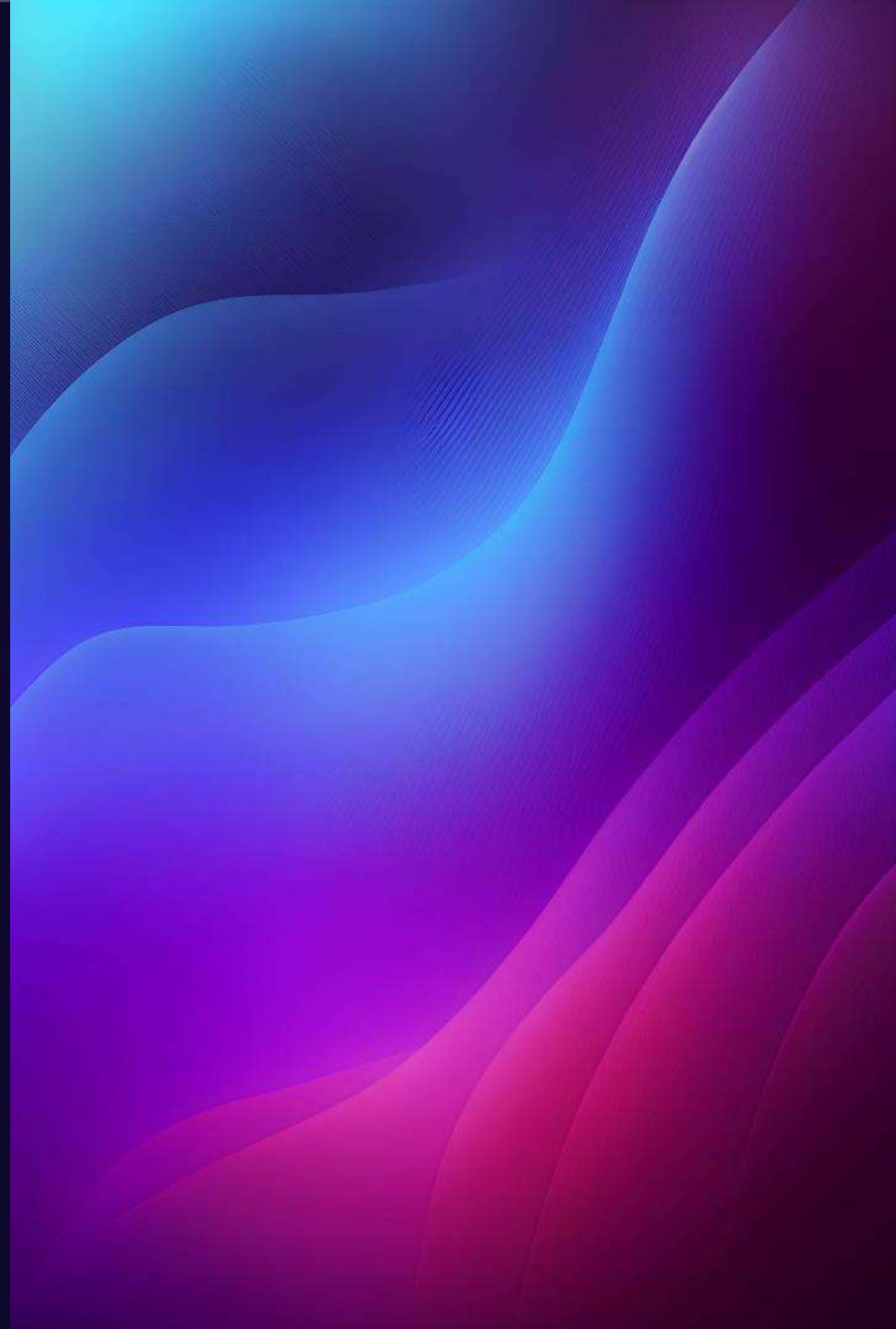
Introduction to Local Area Networks (LANs)

LANs allow multiple devices to share resources and communicate with each other within a limited geographic area. They are commonly used in homes, offices, and schools.



What is a network hub?

A network hub is a central device that connects multiple computers in a LAN. It acts as a common connection point, receiving and distributing data packets to all connected devices.



Benefits of using a network hub

1

Easy Expansion

Adding more computers to the LAN is as simple as connecting them to the network hub.

2

Cost-Efficient

Network hubs are affordable compared to other networking devices like switches or routers.

3

Shared Resources

A network hub allows sharing of files, printers, and other resources between connected computers.

Step-by-step guide to connecting computers

1

Step 1: Gather Equipment

Collect computers, LAN cables, and a network hub.

2

Step 2: Power Up the Hub

Connect the power adapter to the hub and plug it into a power outlet.

3

Step 3: Connect Computers

Use LAN cables to connect each computer to the network hub's available ports.

4

Step 4: Test Connectivity

Ensure all computers can communicate with each other and access shared resources.

Troubleshooting common issues

Disconnected Cables

Check if any LAN cables are unplugged or loose.

IP Address Conflicts

Ensure no two computers have the same IP address.

Hub Power Issues

Test the power connection of the network hub.

Firewall Settings

Adjust firewall settings to allow network communication.

Network security considerations

Keep your LAN secure by following these best practices:

1. Change default passwords on the network hub and connected devices.
2. Enable encryption, such as WPA2, for wireless LAN connections.
3. Regularly update firmware and security patches on network devices.
4. Implement secure access controls to limit unauthorized connections.

Follow the Following Step in pcs to convert them in to create a lan

computer PC-1

This PC
Storage (D)
N. folder
HPUSBDisk
Document
Some Like It Hot
MiniTool Video C...
Foto
video
OBS Studio
rufus-3.21
3
Recycle Bin
Type here to search
Pinned
All apps
Edge
Mail
Calendar
Microsoft Store
Photos
Settings
Microsoft 365 (Office)
Solitaire & Casual Games
WhatsApp
Spotify
Disney+
Xbox
Clipchamp – Video Editor
Prime Video for Windows
TikTok
Instagram
Messenger
Calculator
Recommended
More
OBS Studio (64bit)
Recently added
Media Player Classic
Recently added
Codec Tweak Tool
Recently added
Document
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Windows
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Control Panel
All
Apps
Documents
Web
Settings
People
Folders
Photos
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Best match
Control Panel
App
Apps
Settings
NVIDIA Control Panel
Windows Tools
Settings
App & browser control
Controlled folder access
Change User Account Control settings
Search the web
Control - See web results
Control Panel
App
Open
Recent
Device Manager
This PC
Storage (D)
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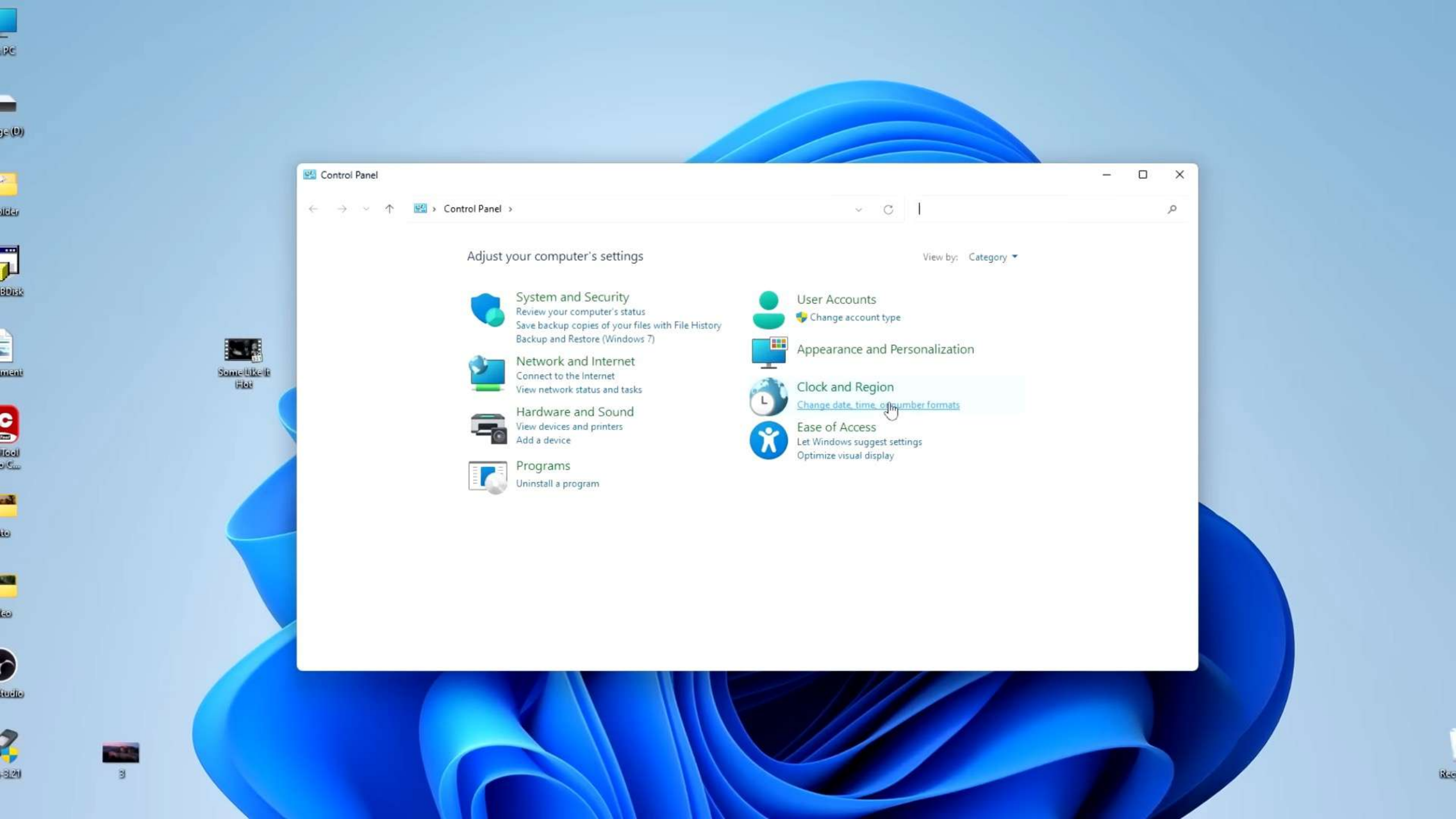
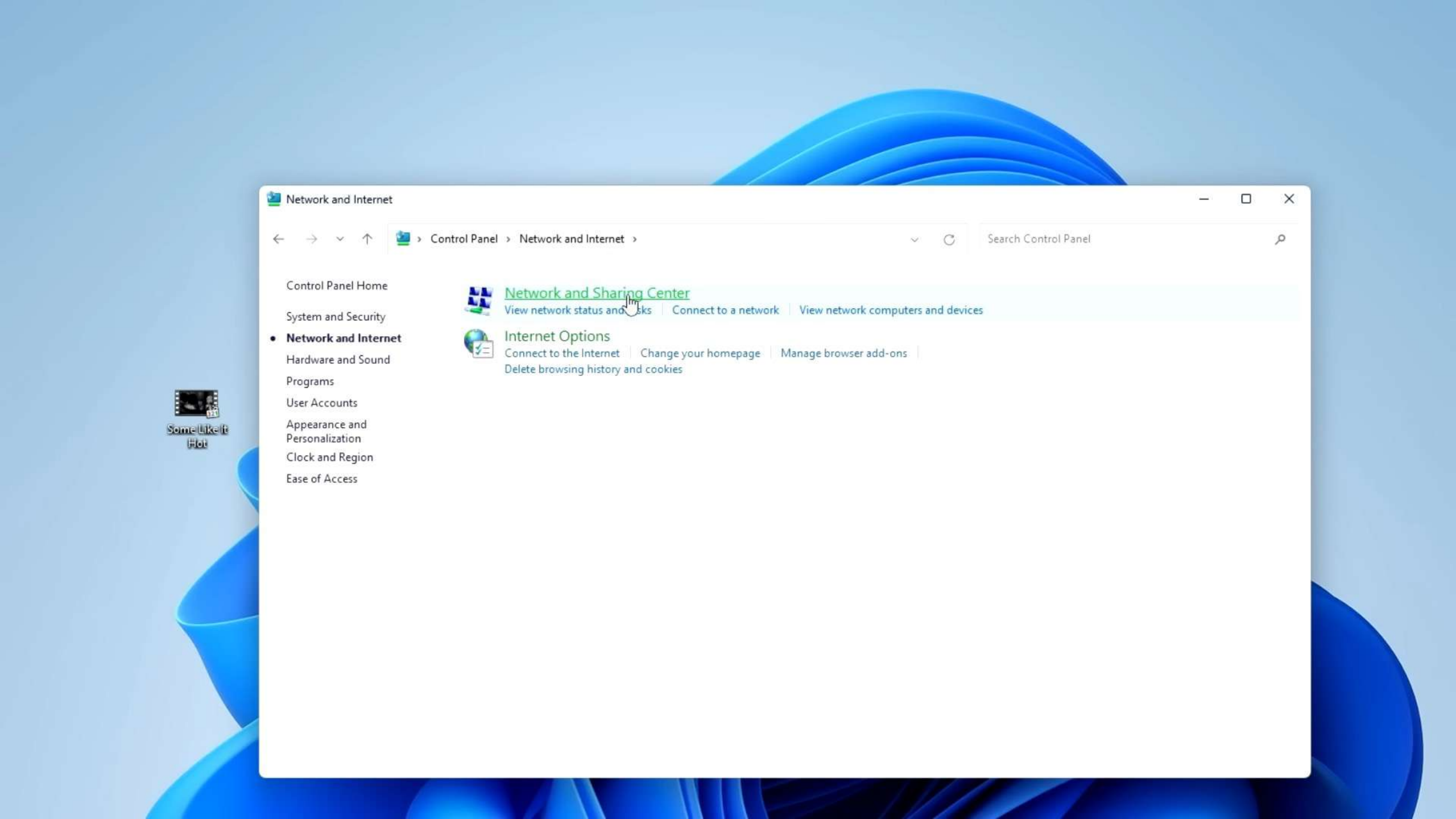

Control Panel
Control Panel ›
Adjust your computer's settings
View by: Category
System and Security
Review your computer's status
Save backup copies of your files with File History
Backup and Restore (Windows 7)
Network and Internet
Connect to the Internet
View network status and tasks
Hardware and Sound
View devices and printers
Add a device
Programs
Uninstall a program
User Accounts
Change account type
Appearance and Personalization
Clock and Region
Change date, time, or number formats
Ease of Access
Let Windows suggest settings
Optimize visual display
Some Like It Hot
3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Control Panel › Network and Internet ›
Search Control Panel
Control Panel Home
System and Security
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Hardware and Sound
Programs
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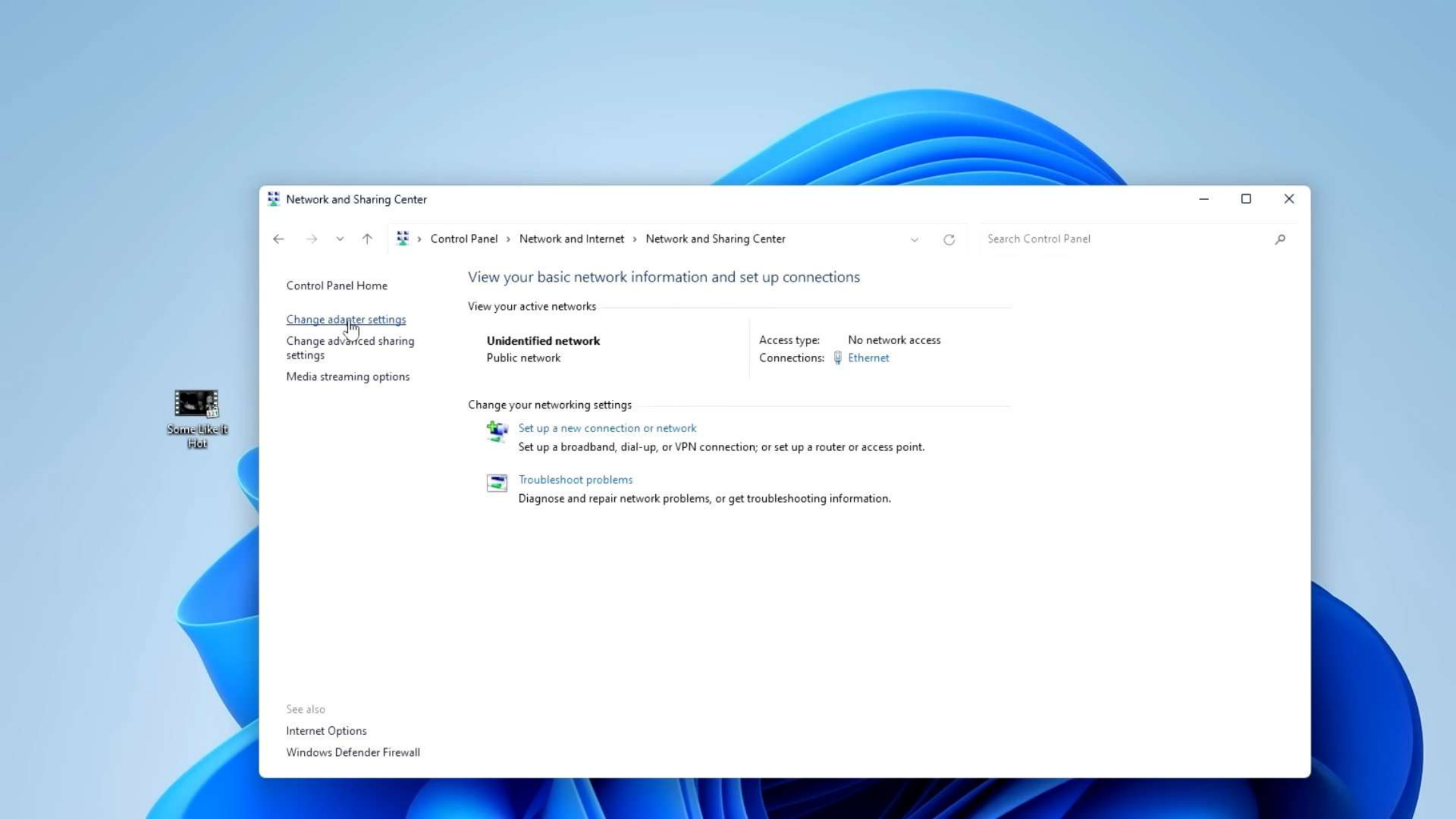
Clock and Region
Ease of Access
Network and Sharing Center
View network status and tasks
Connect to a network
View network computers and devices
Internet Options
Connect to the Internet
Change your homepage
Manage browser add-ons
Delete browsing history and cookies
Some Like It Hot


Network and Sharing Center
Control Panel › Network and Internet › Network and Sharing Center
Search Control Panel
Control Panel Home
Change adapter settings
Change advanced sharing settings
Media streaming options
View your basic network information and set up connections
View your active networks
Unidentified network
Public network
Access type: No network access
Connections: Ethernet
Change your networking settings
Set up a new connection or network
Set up a broadband, dial-up, or VPN connection; or set up a router or access point.
Troubleshoot problems
Diagnose and repair network problems, or get troubleshooting information.
See also
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Windows Defender Firewall
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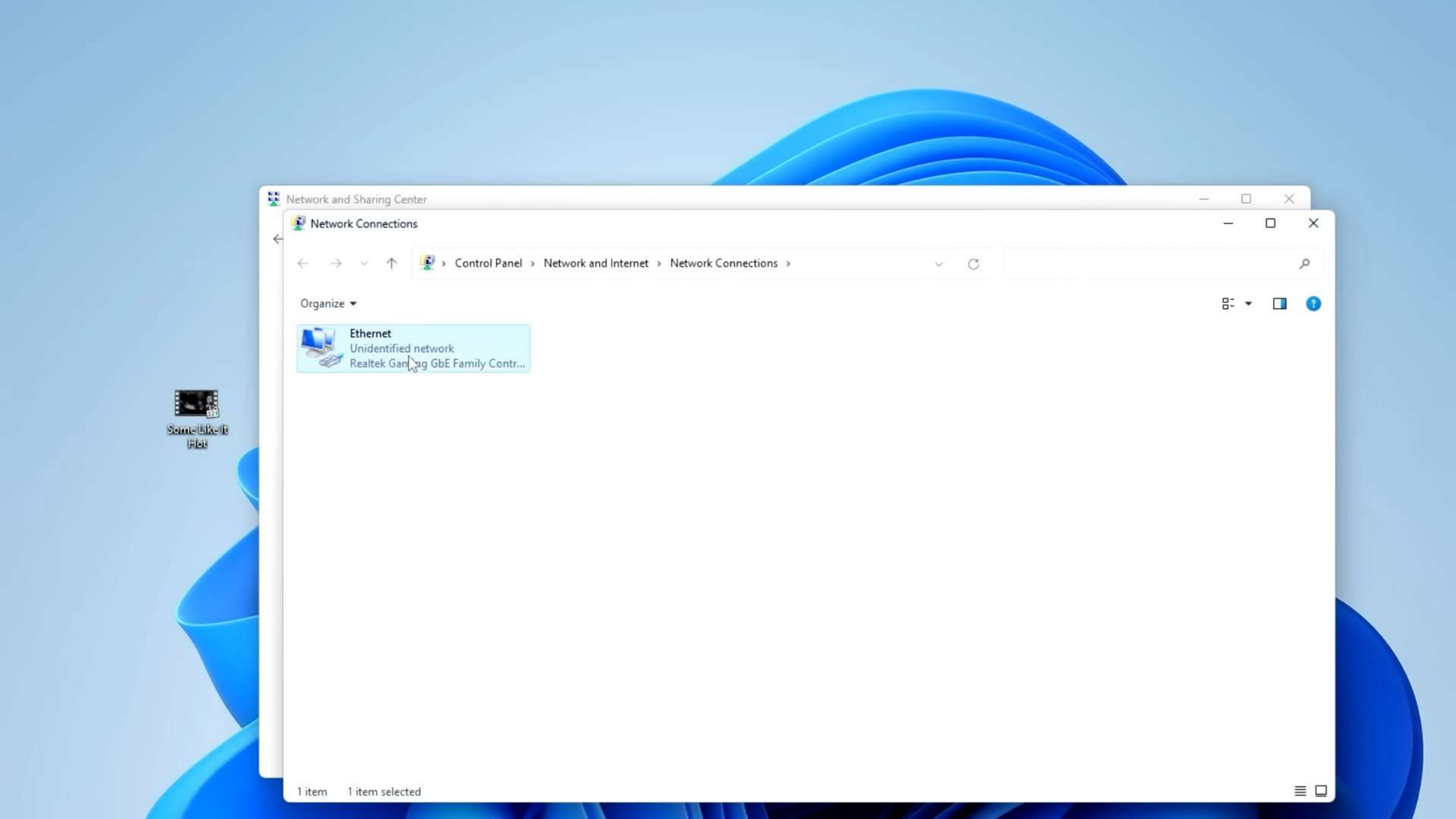
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Network Connections
Control Panel › Network and Internet › Network Connections ›
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Ethernet
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Realtek Gan ag GbE Family Contr...
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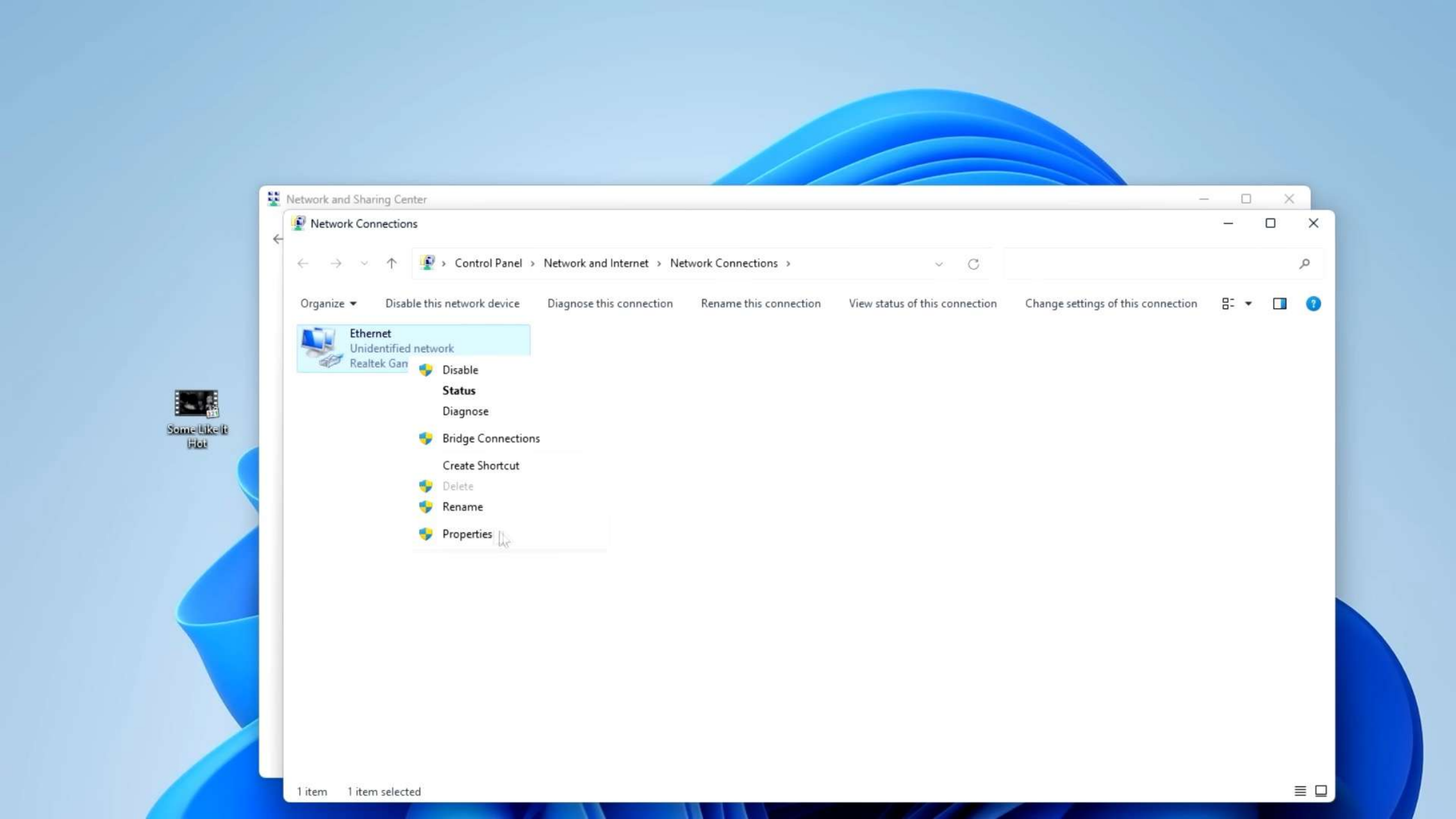
1 item selected
Some Like It Hot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Network Connections
Control Panel › Network and Internet › Network Connections ›
Organize
Disable this network device
Diagnose this connection
Rename this connection
View status of this connection
Change settings of this connection
Ethernet
Unidentified network
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Status
Diagnose
Bridge Connections
Create Shortcut
Delete
Rename
Properties
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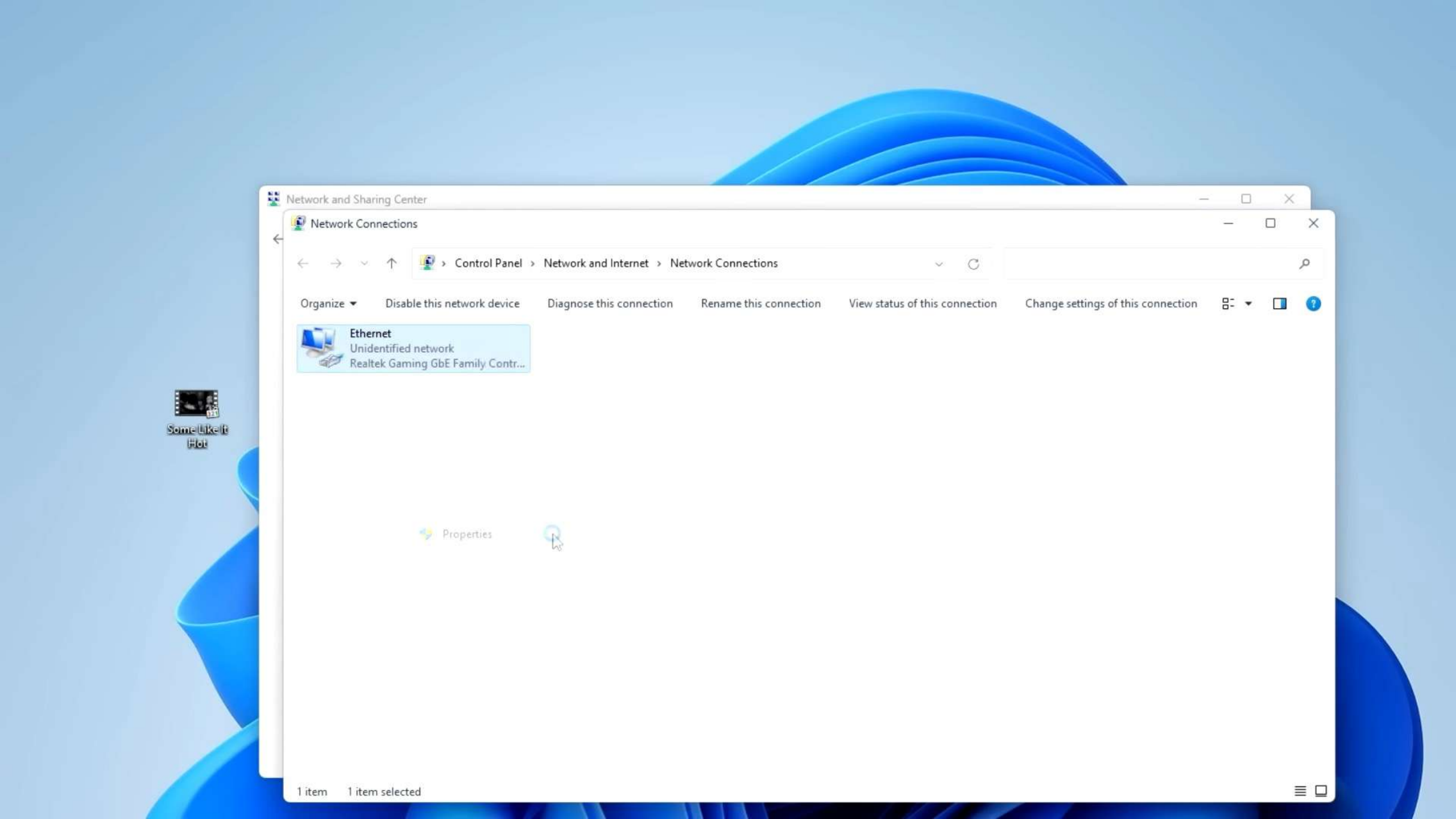
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Properties
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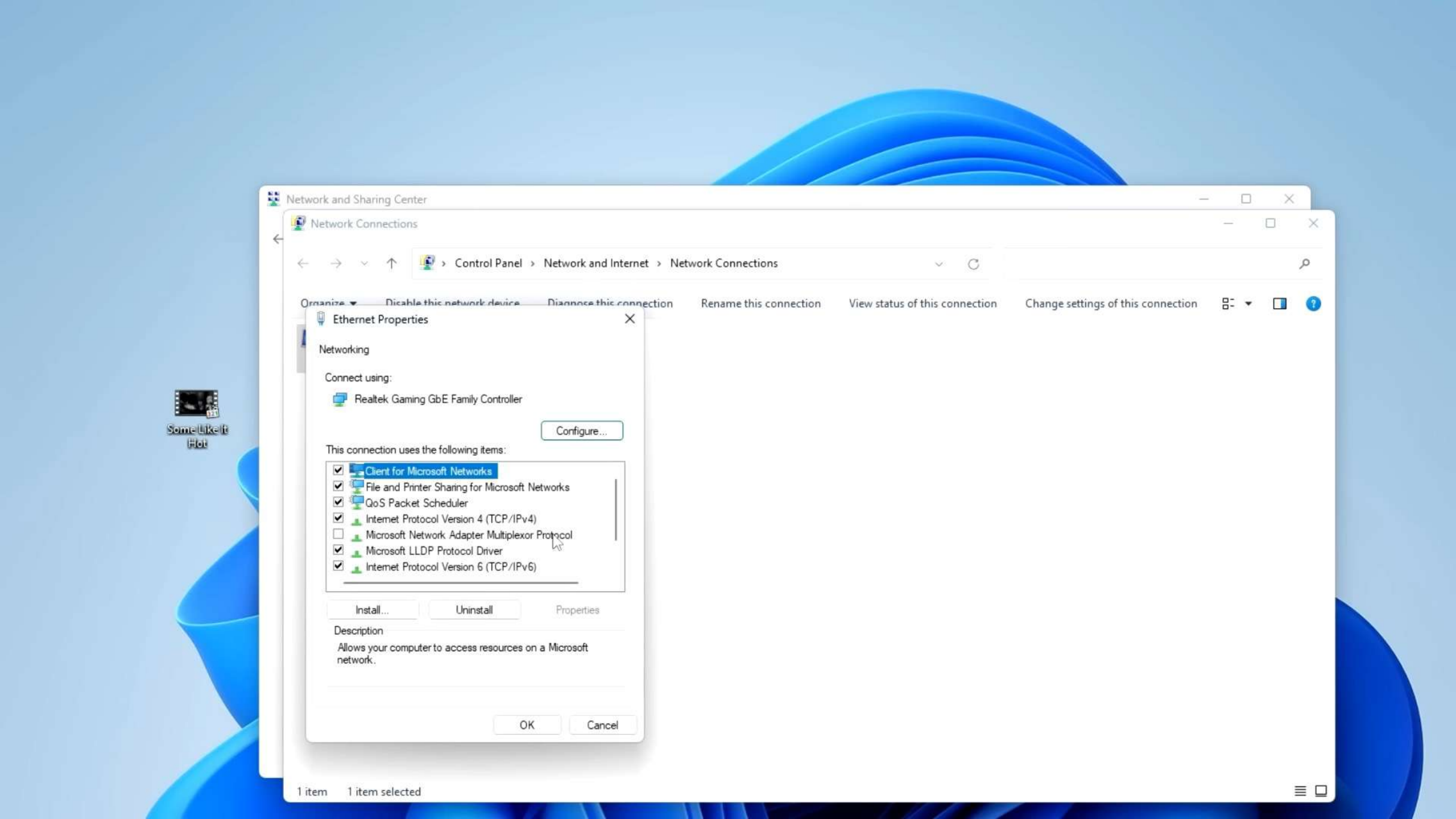
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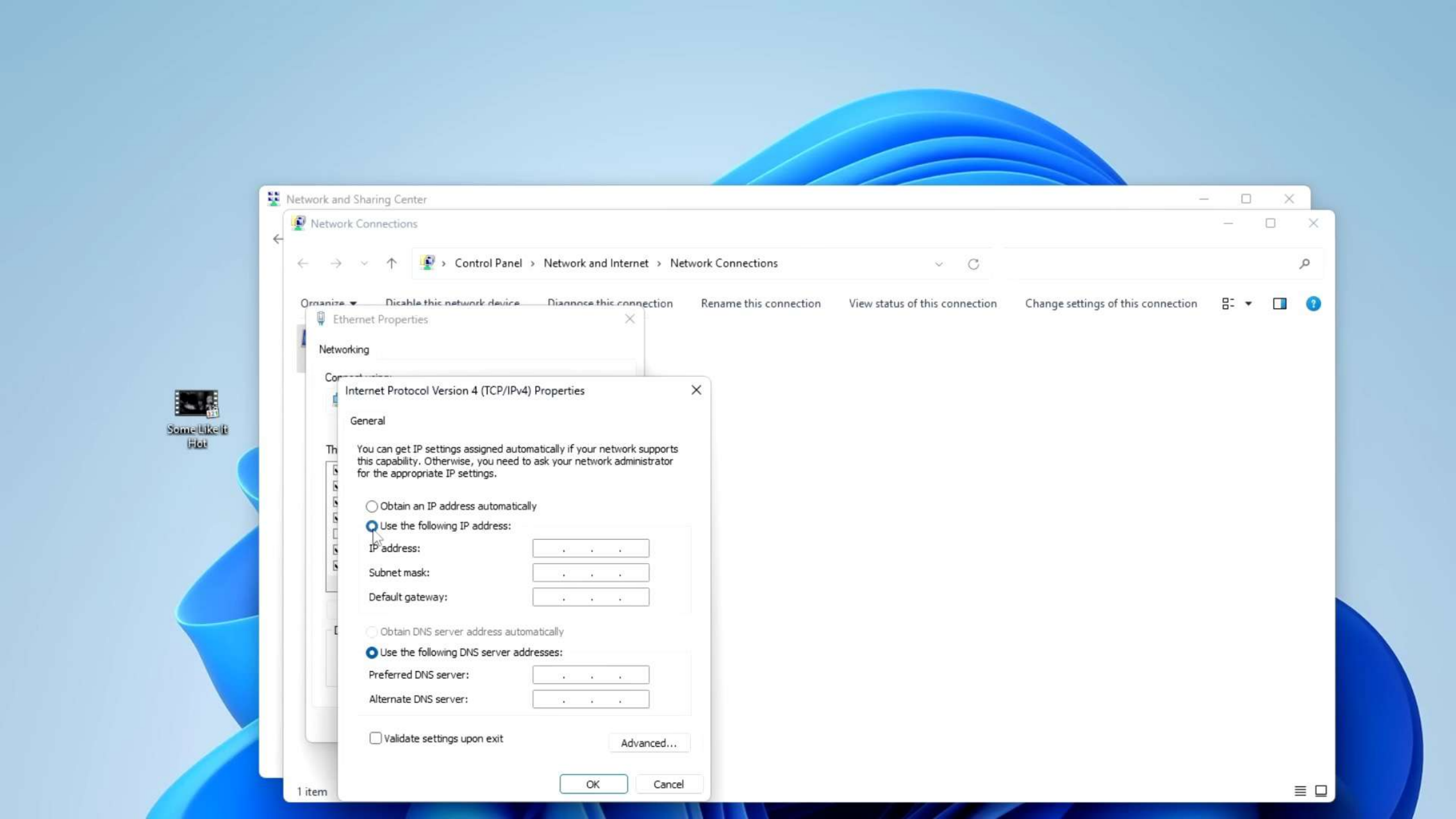
Disable this network device
Diagnose this connection
Rename this connection
View status of this connection
Change settings of this connection
Ethernet Properties
Networking
Connect using:
Realtek Gaming GbE Family Controller
Configure...
This connection uses the following items:
Client for Microsoft Networks
File and Printer Sharing for Microsoft Networks
QoS Packet Scheduler
Internet Protocol Version 4 (TCP/IPv4)
Microsoft Network Adapter Multiplexor Protocol
Microsoft LLDP Protocol Driver
Internet Protocol Version 6 (TCP/IPv6)
Install...
Uninstall
Properties
Description
Allows your computer to access resources on a Microsoft network.
OK
Cancel
1 item
1 item selected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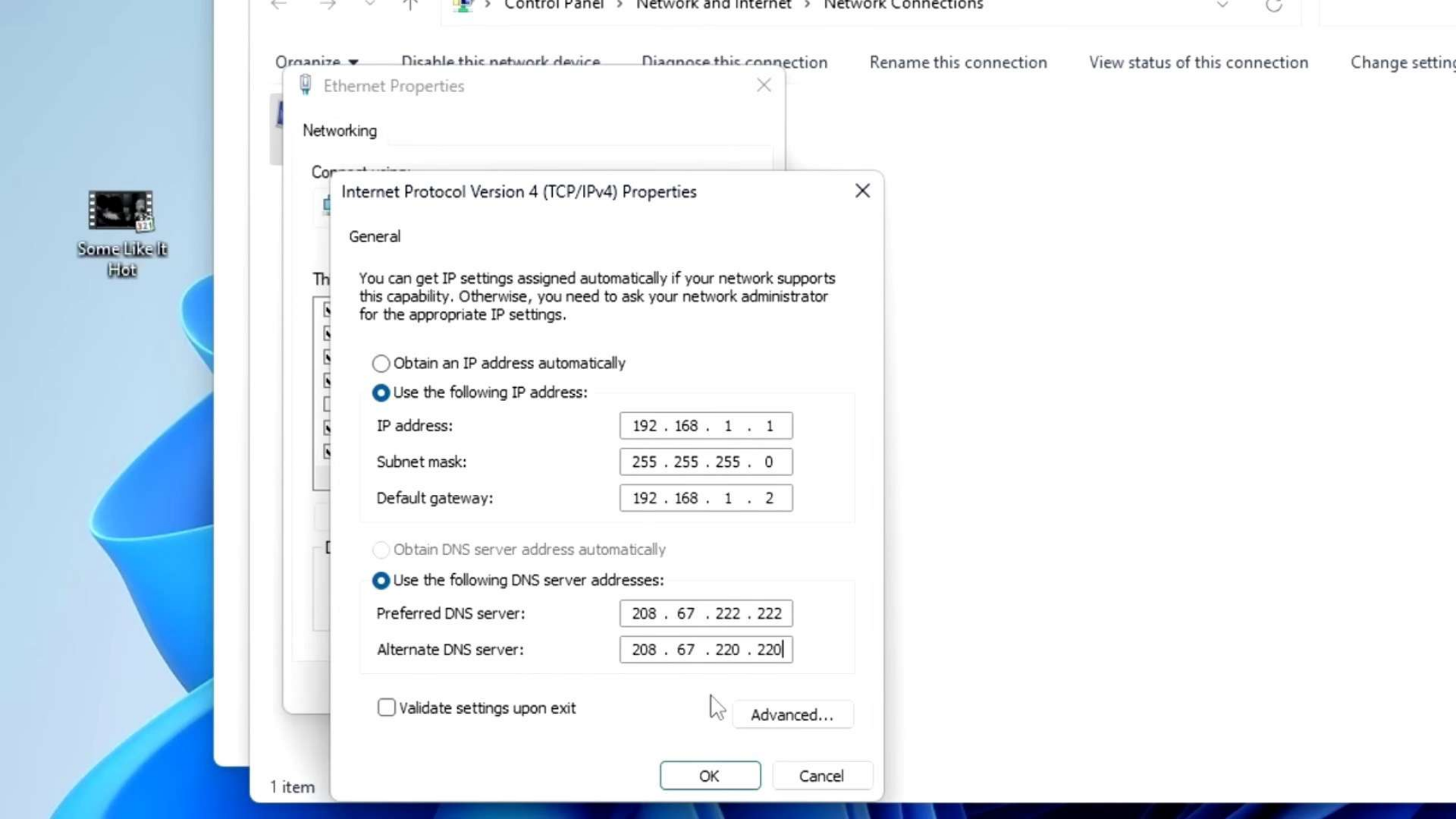
Internet Protocol Version 4 (TCP/IPv4) Properties
General
You can get IP settings assigned automatically if your network supports this capability. Otherwise, you need to ask your network administrator for the appropriate IP settings.
Obtain an IP address automatically
Use the following IP address:
IP address:
Subnet mask:
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
1 item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Change setting
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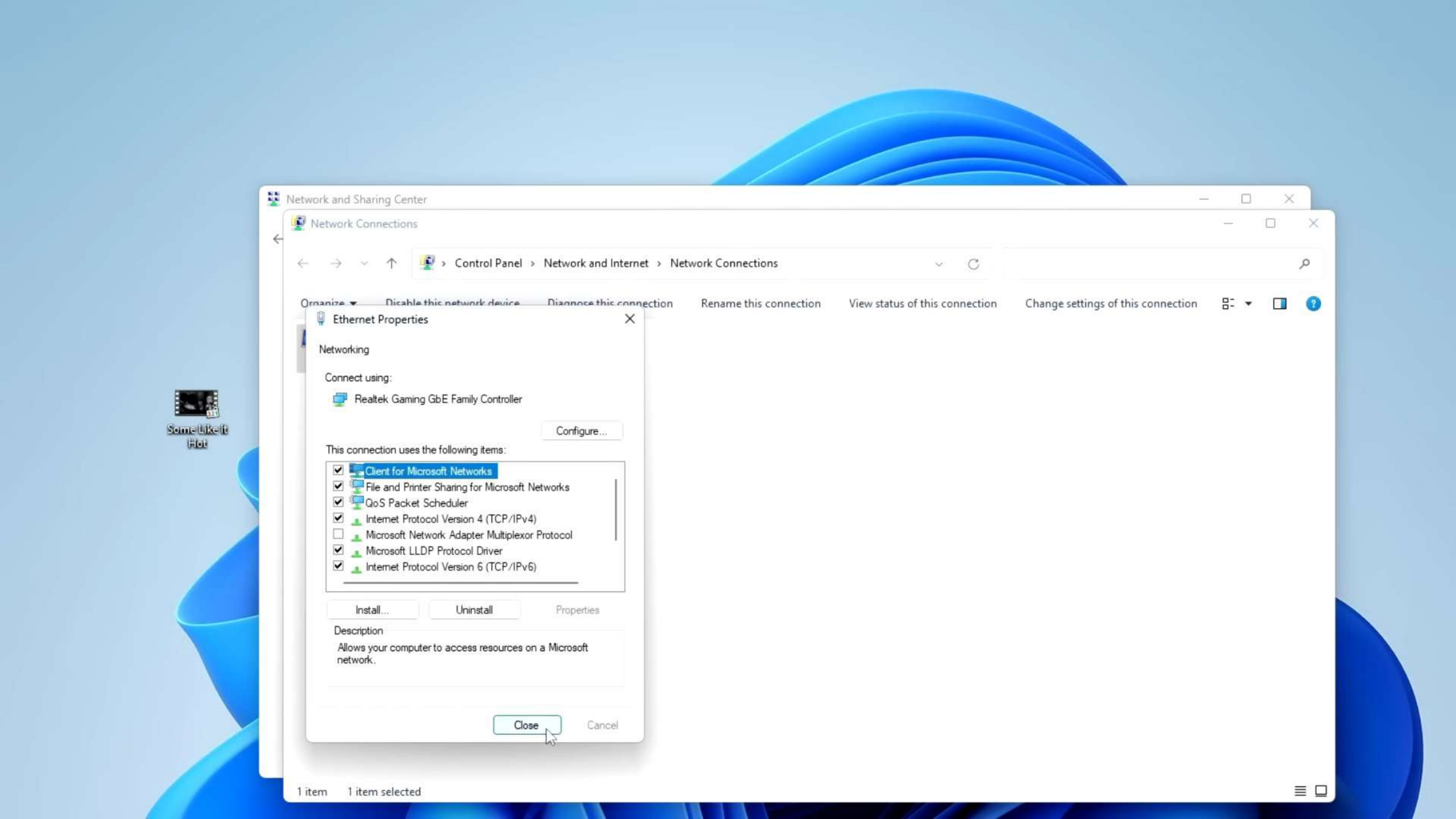
Obtain an IP address automatically
Use the following IP address:
IP address: 192 . 168 . 1 . 1
Subnet mask: 255 . 255 . 255 . 0
Default gateway: 192 . 168 . 1 . 2
Obtain DNS server address automatically
Use the following DNS server addresses:
Preferred DNS server: 208 . 67 . 222 . 222
Alternate DNS server: 208 . 67 . 220 . 220
Validate settings upon exit
Advanced...
OK
Cancel
1 item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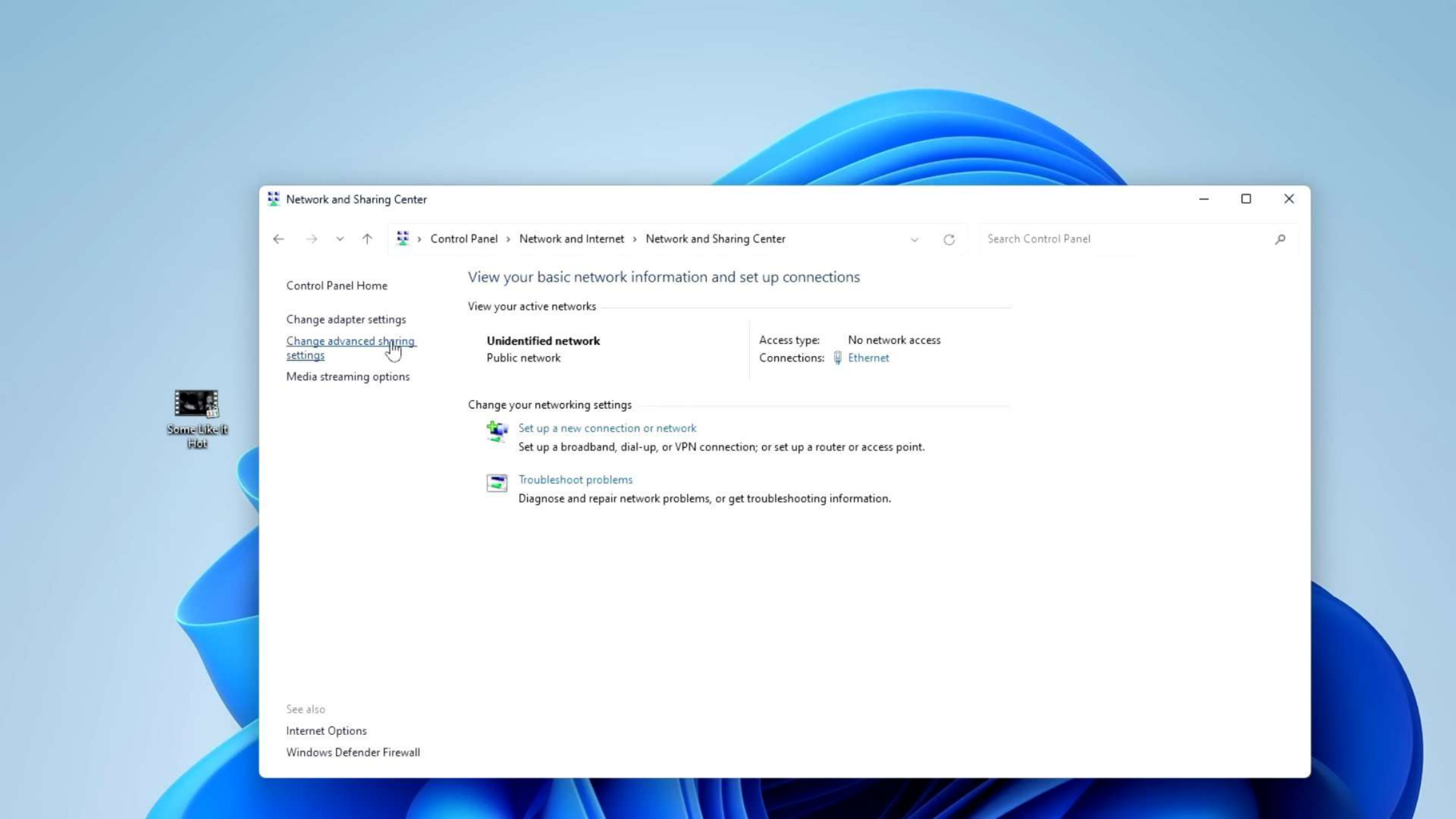
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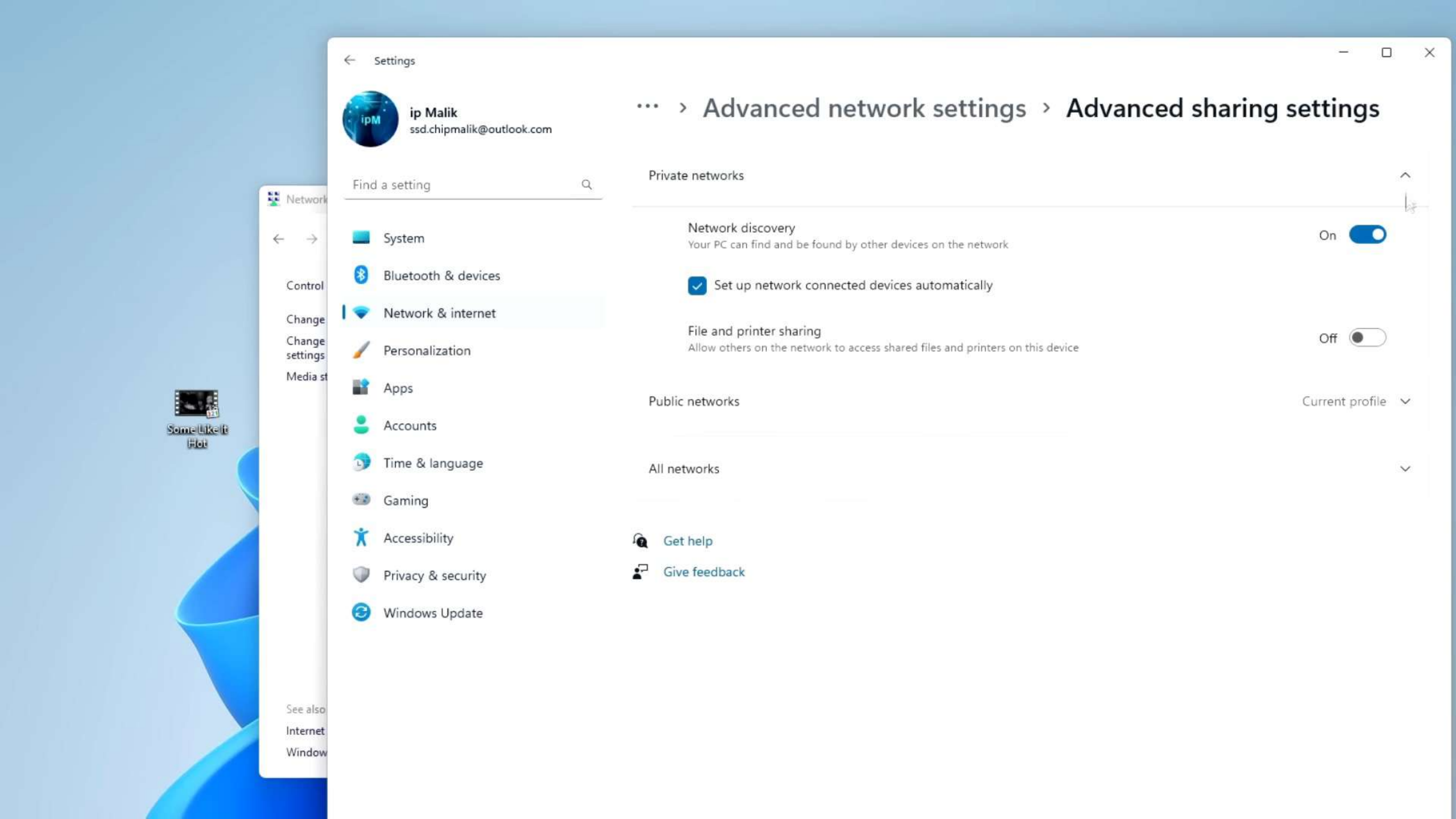
Settings
ip Malik
ssd.chipmalik@outlook.com
Find a setting
System
Bluetooth & devices
Network & internet
Personalization
Apps
Accounts
Time & language
Gaming
Accessibility
Privacy & security
Windows Update
Advanced network settings
Advanced sharing settings
Private networks
Network discovery
Your PC can find and be found by other devices on the network
On
Set up network connected devices automatically
File and printer sharing
Allow others on the network to access shared files and printers on this device
Off
Public networks
Current profile
All networks
Get help
Give feedback
Some Like It Hot
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Change
Change settings
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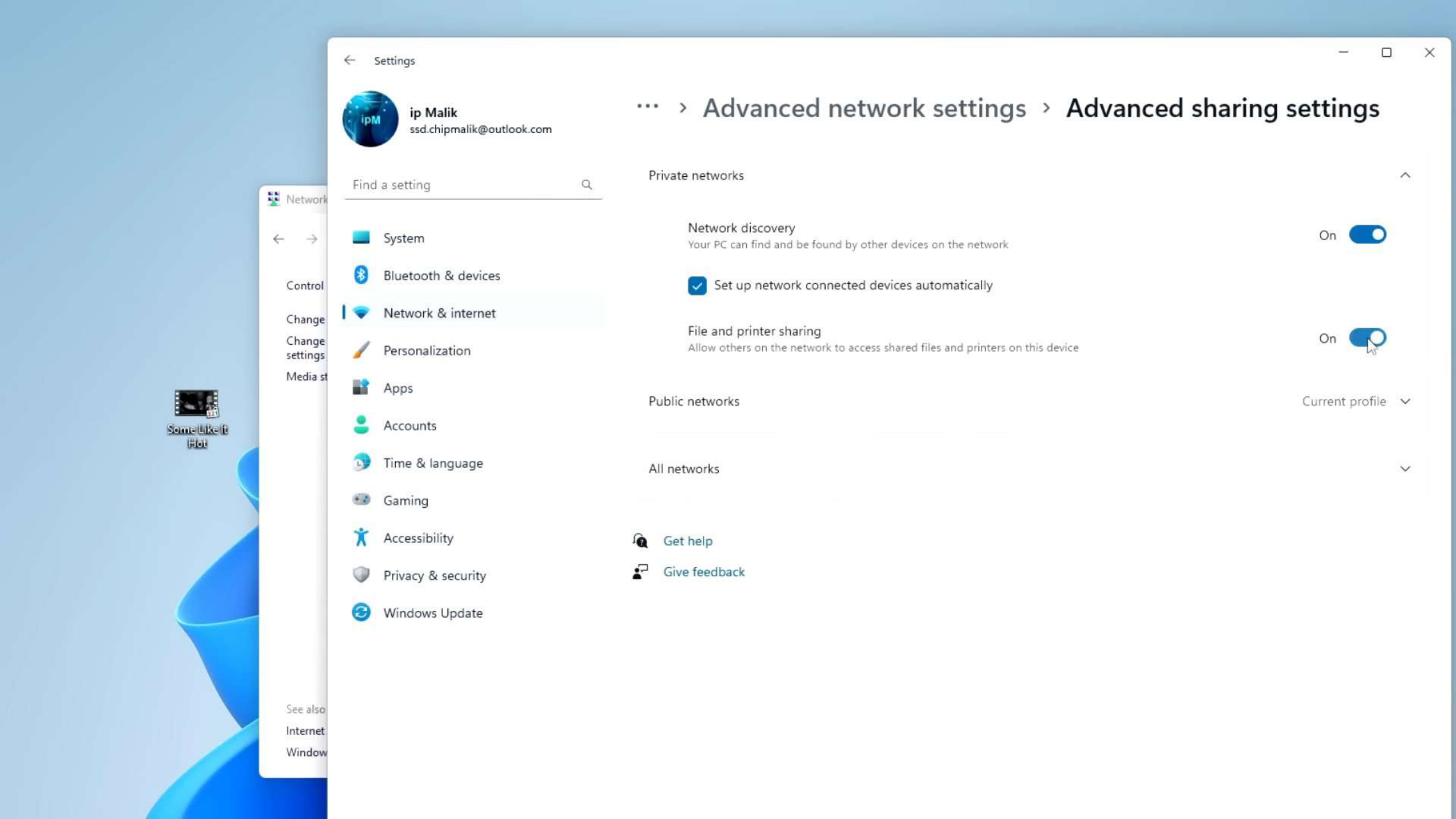
See also
Internet
Window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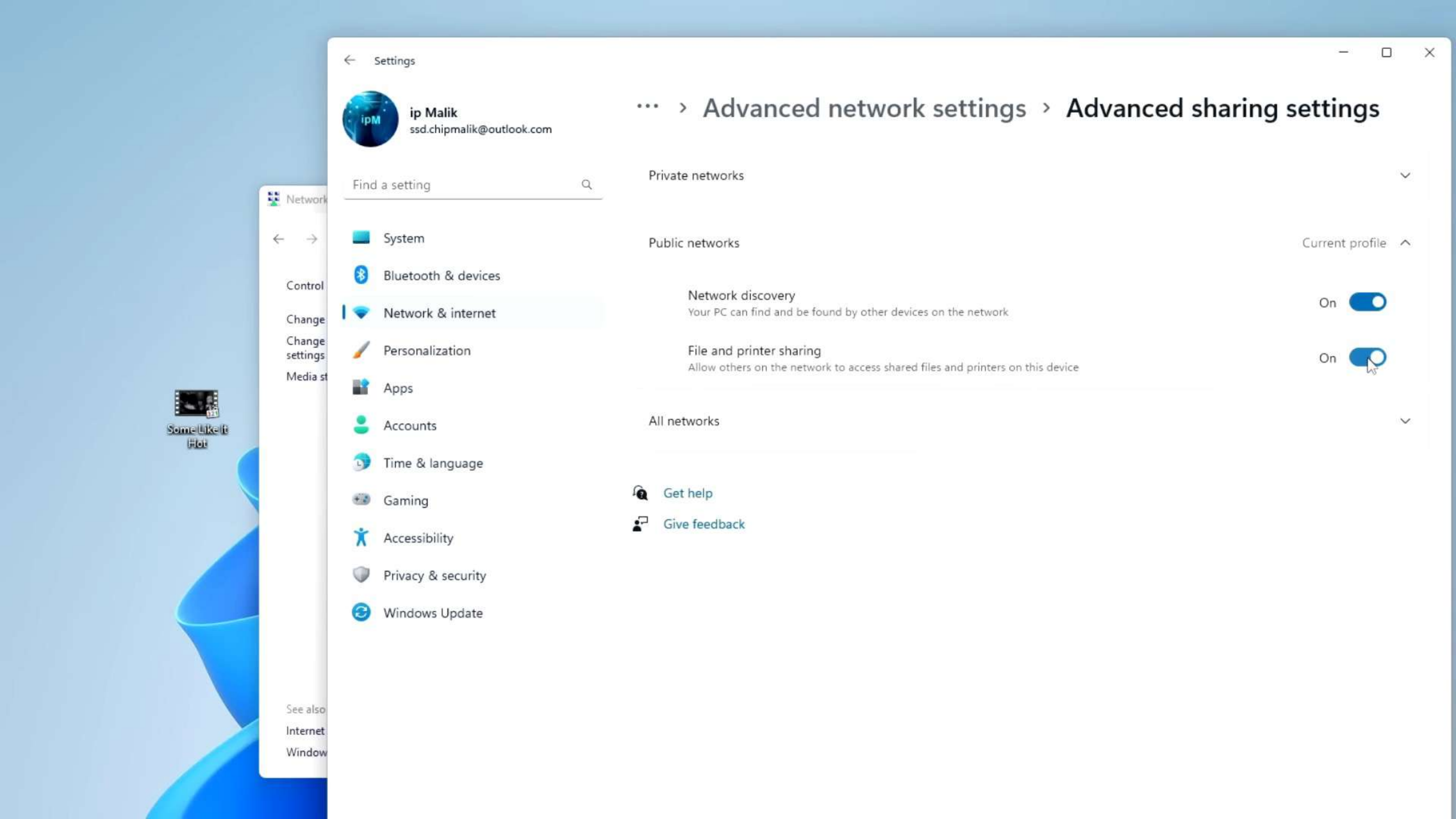
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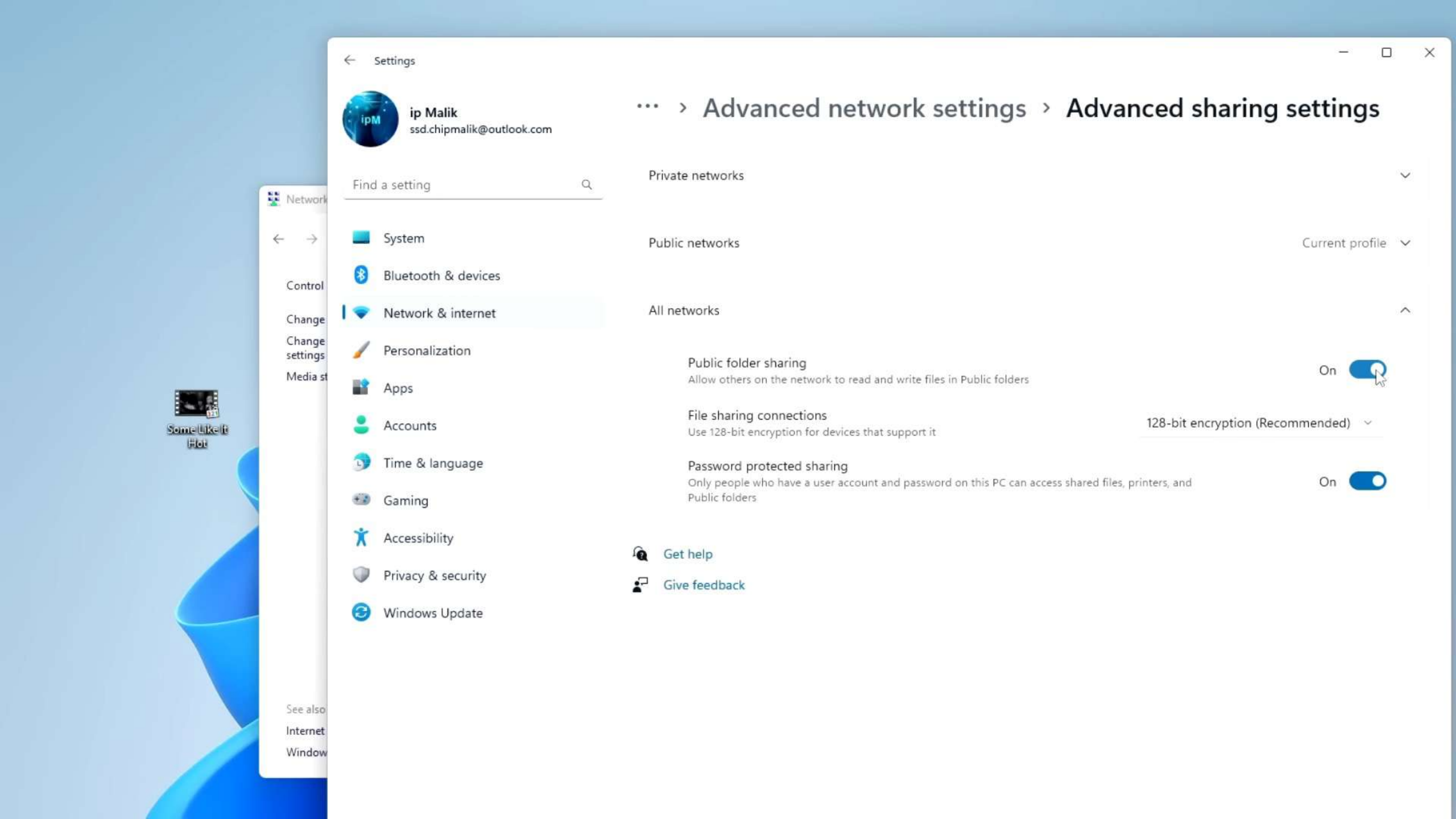
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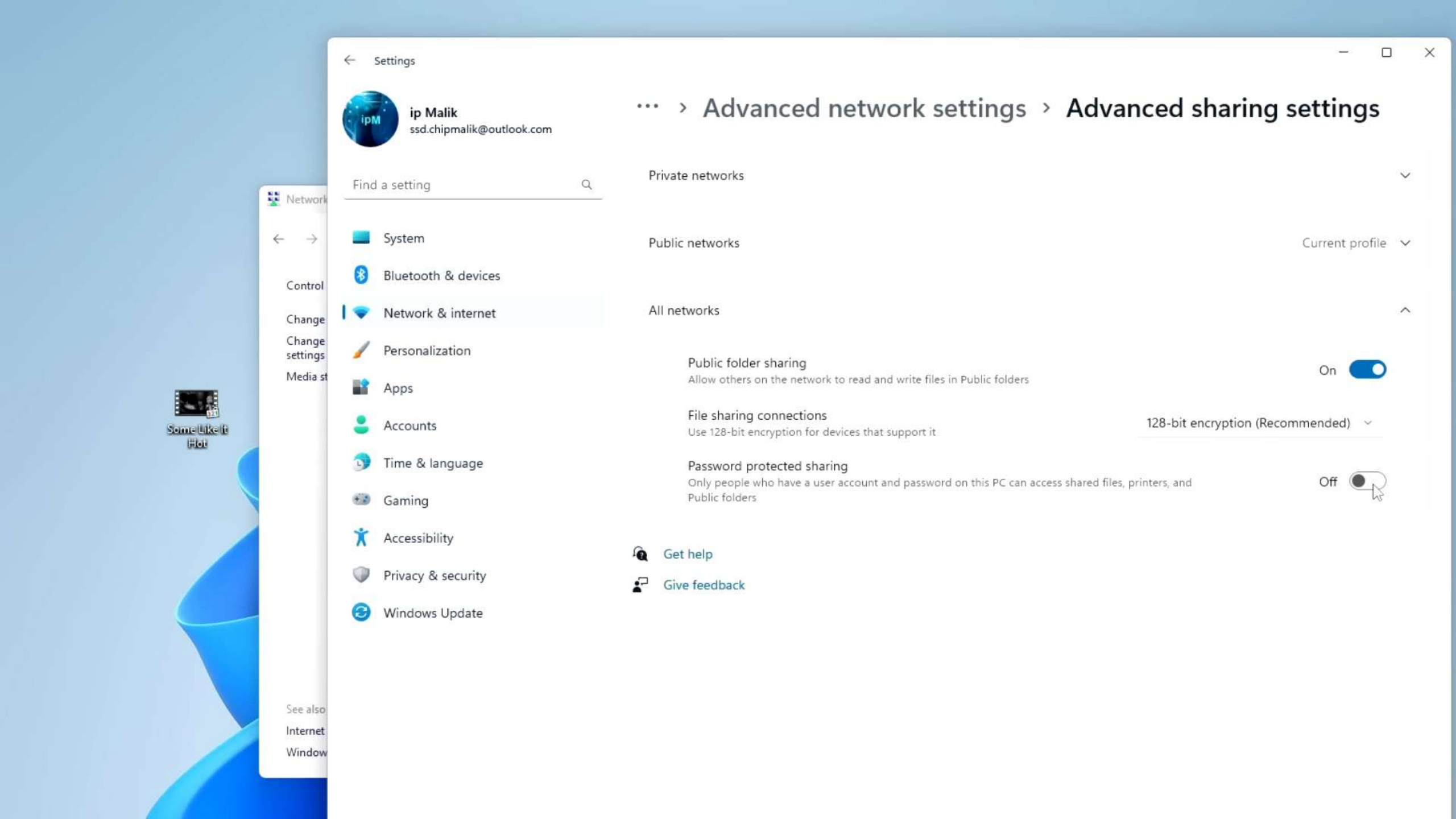
Advanced sharing settings
Private networks
Public networks
Current profile
All networks
Public folder sharing
Allow others on the network to read and write files in Public folders
On
File sharing connections
Use 128-bit encryption for devices that support it
128-bit encryption (Recommended)
Password protected sharing
Only people who have a user account and password on this PC can access shared files, printers, and Public folders
On
Get help
Give feedback
Some Like It Hot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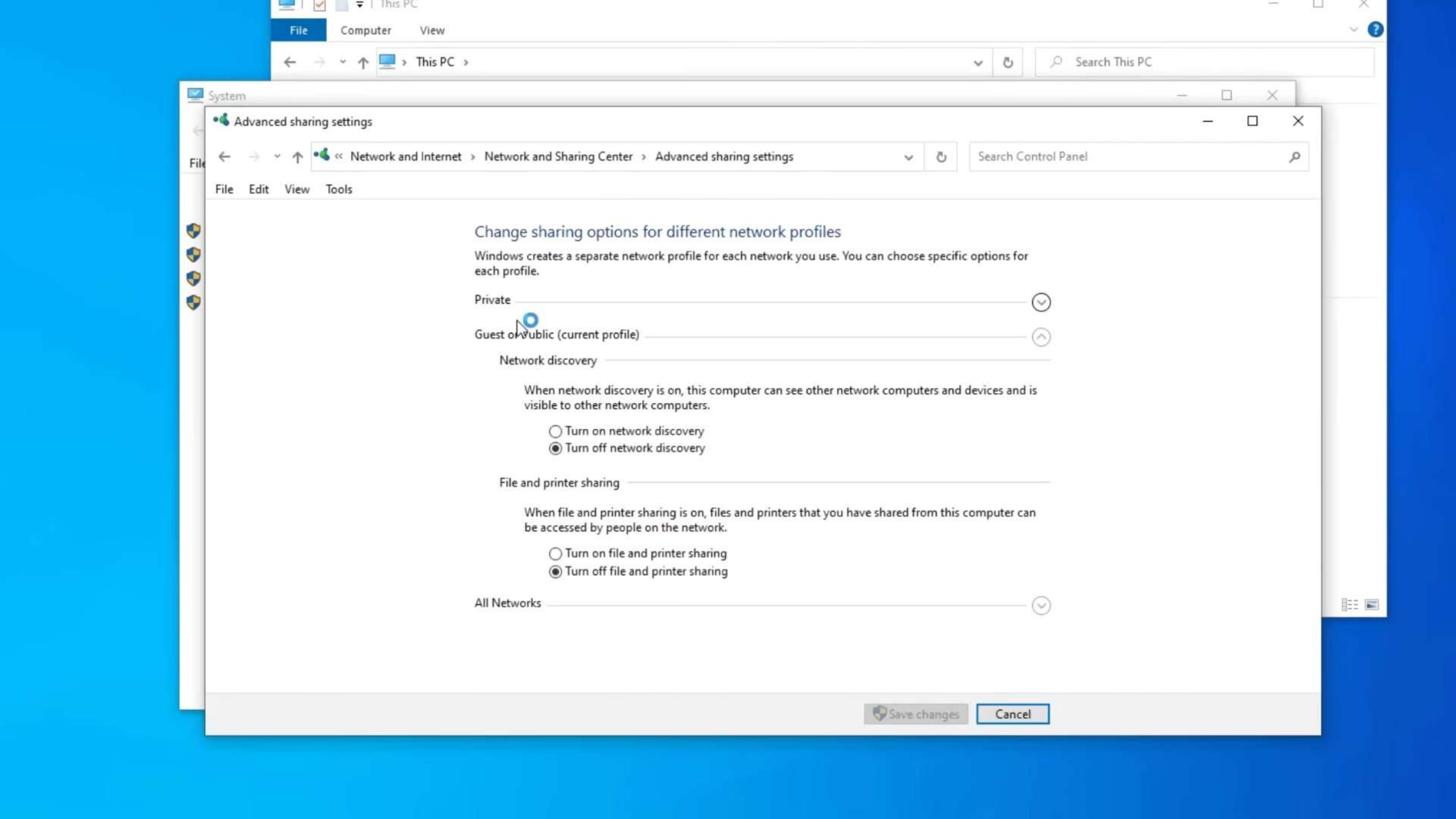
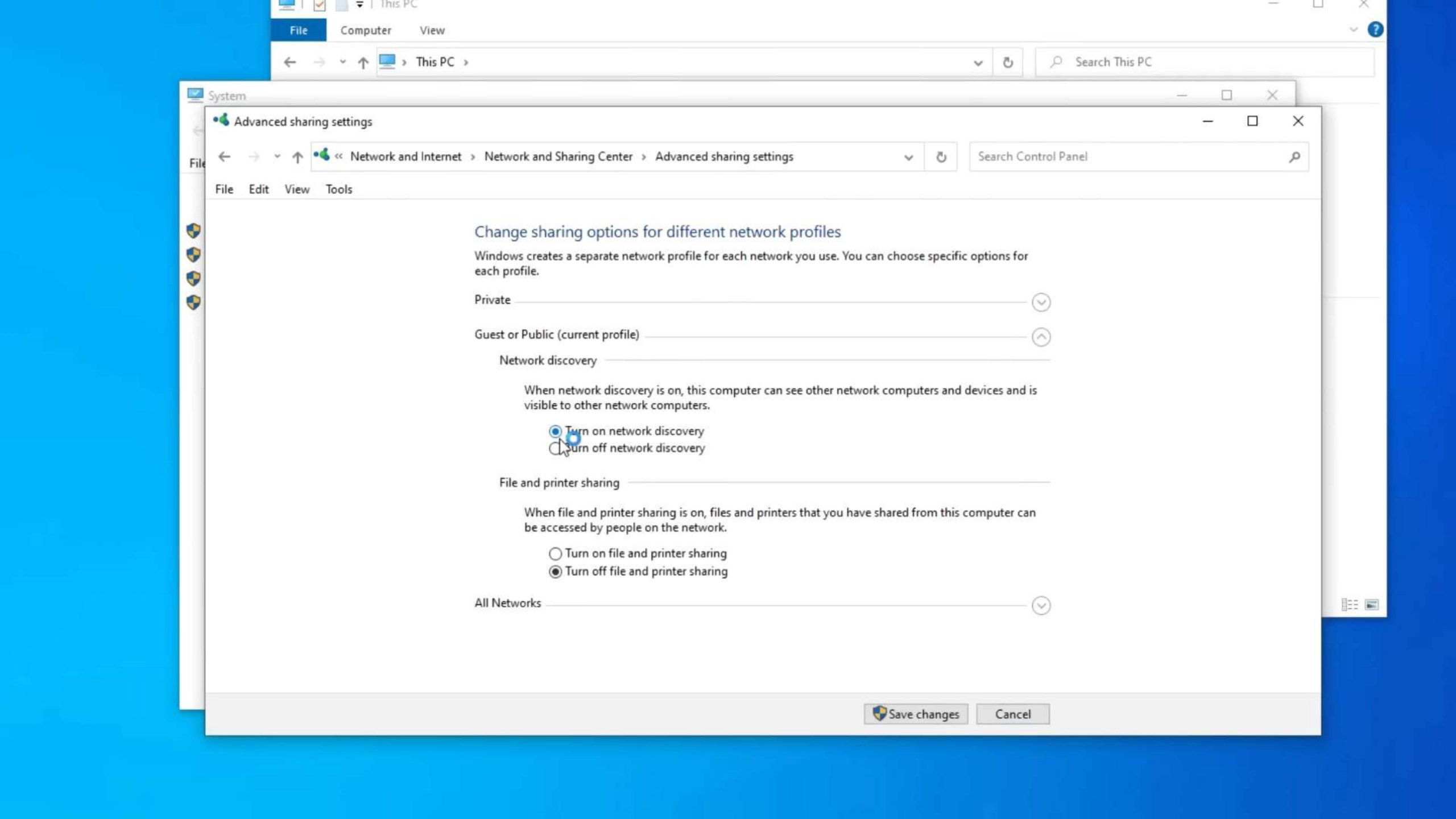

This PC
File
Computer
View
This PC
Search This PC
System
Advanced sharing settings
Network and Internet
Network and Sharing Center
Advanced sharing settings
Search Control Panel
File
Edit
View
Tools
Change sharing options for different network profiles
Windows creates a separate network profile for each network you use. You can choose specific options for each profile.
Private
Guest or public (current profile)
Network discovery
When network discovery is on, this computer can see other network computers and devices and is visible to other network computers.
Turn on network discovery
Turn off network discovery
File and printer sharing
When file and printer sharing is on, files and printers that you have shared from this computer can be accessed by people on the network.
Turn on file and printer sharing
Turn off file and printer sharing
All Networks
Save changes
Cancel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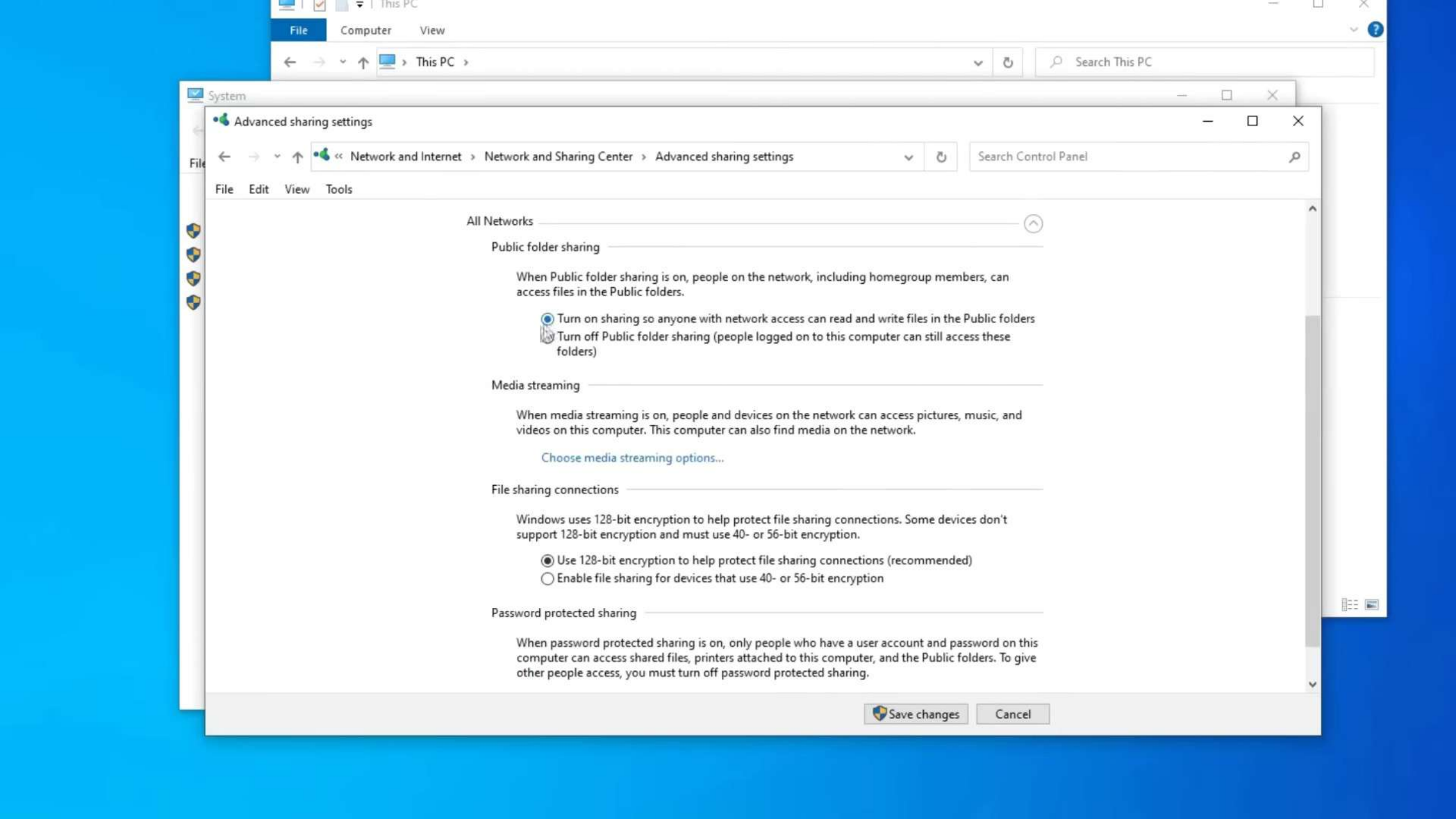
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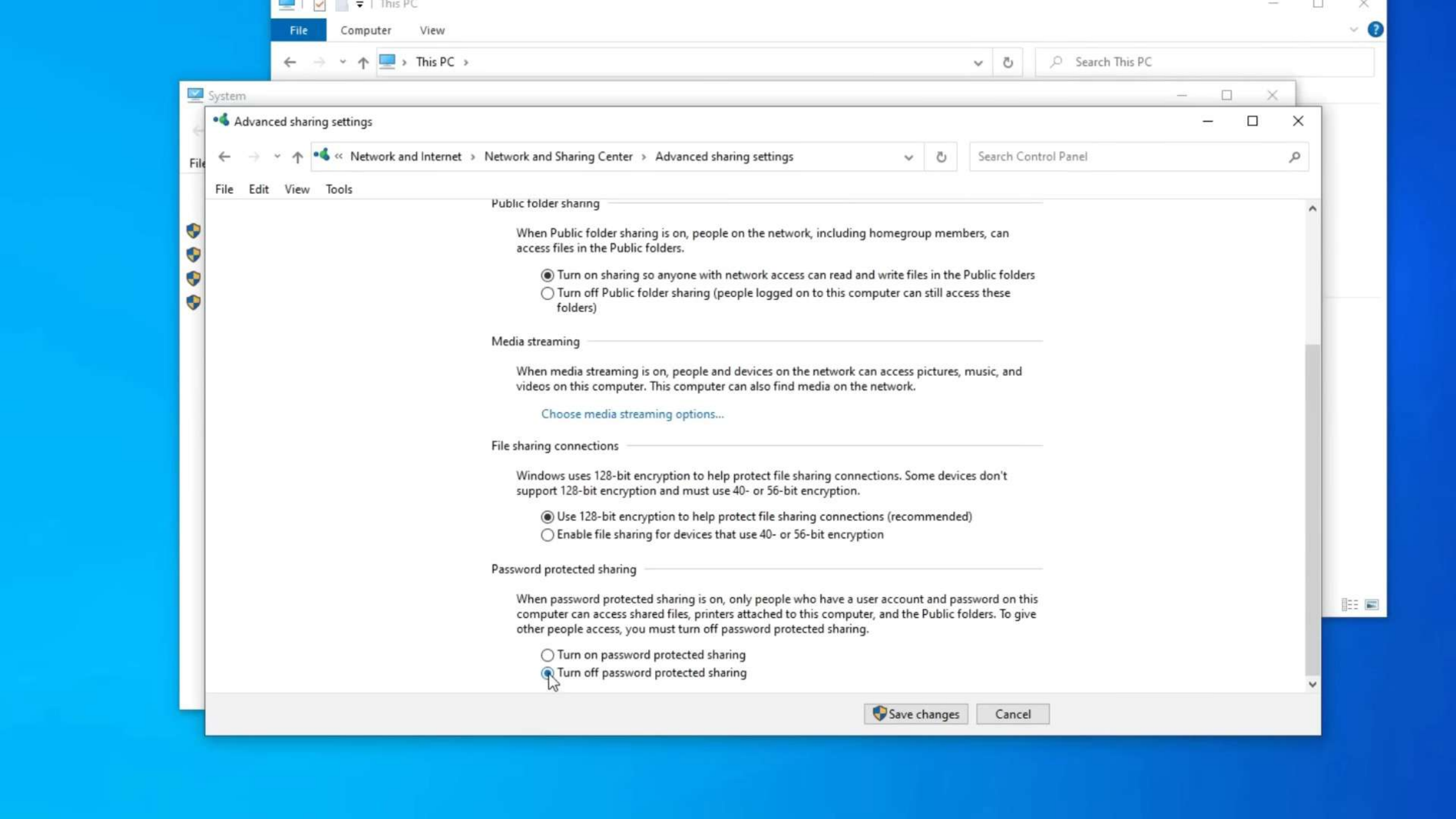
All Networks
Public folder sharing
When Public folder sharing is on, people on the network, including homegroup members, can access files in the Public folders.
Turn on sharing so anyone with network access can read and write files in the Public folders
Turn off Public folder sharing (people logged on to this computer can still access these folders)
Media streaming
When media streaming is on, people and devices on the network can access pictures, music, and videos on this computer. This computer can also find media on the network.
Choose media streaming options...
File sharing connections
Windows uses 128-bit encryption to help protect file sharing connections. Some devices don't support 128-bit encryption and must use 40- or 56-bit encryption.
Use 128-bit encryption to help protect file sharing connections (recommended)
Enable file sharing for devices that use 40- or 56-bit encryption
Password protected sharing
When password protected sharing is on, only people who have a user account and password on this computer can access shared files, printers attached to this computer, and the Public folders. To give other people access, you must turn off password protected sharing.
Save changes
Cancel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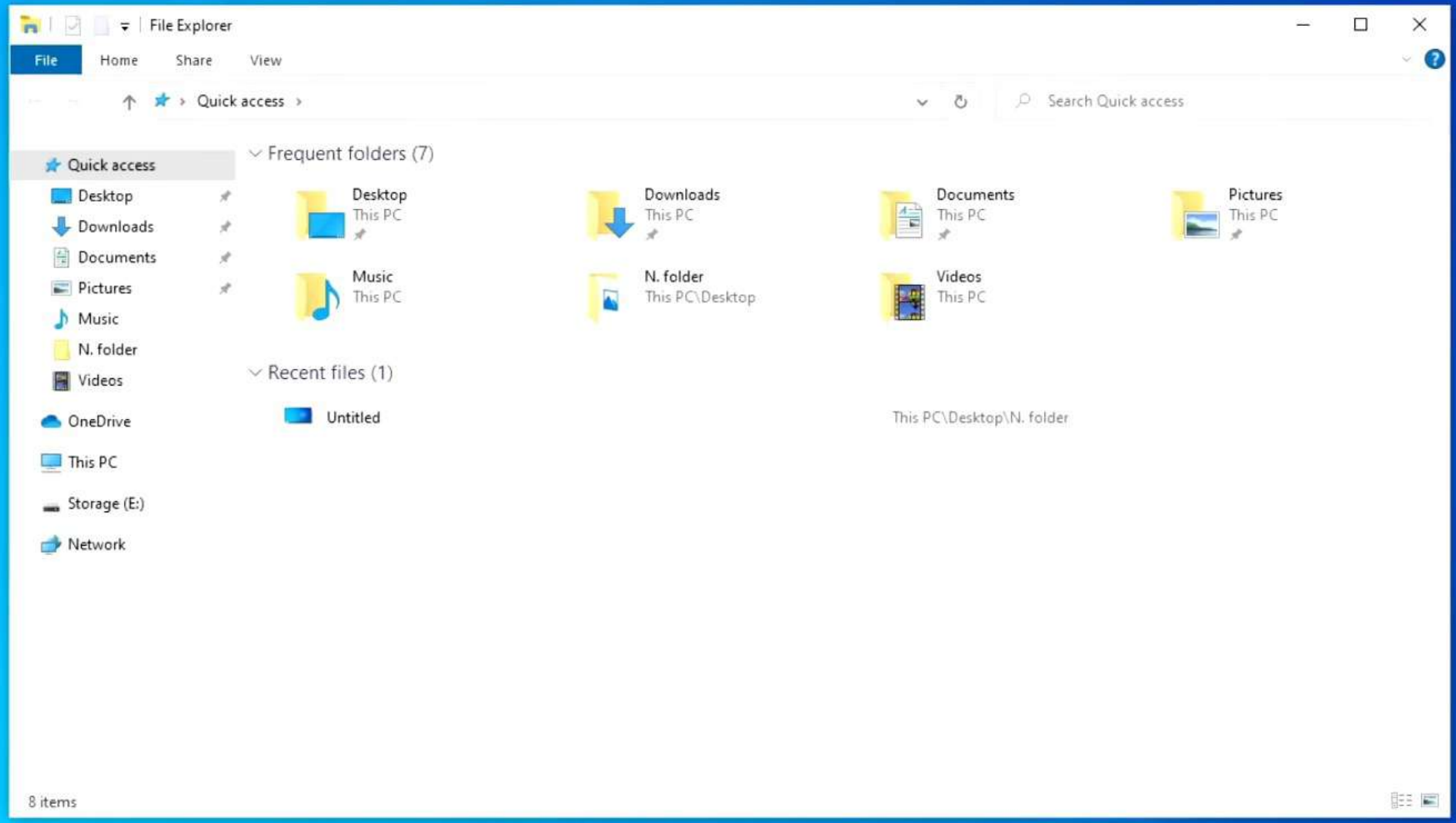
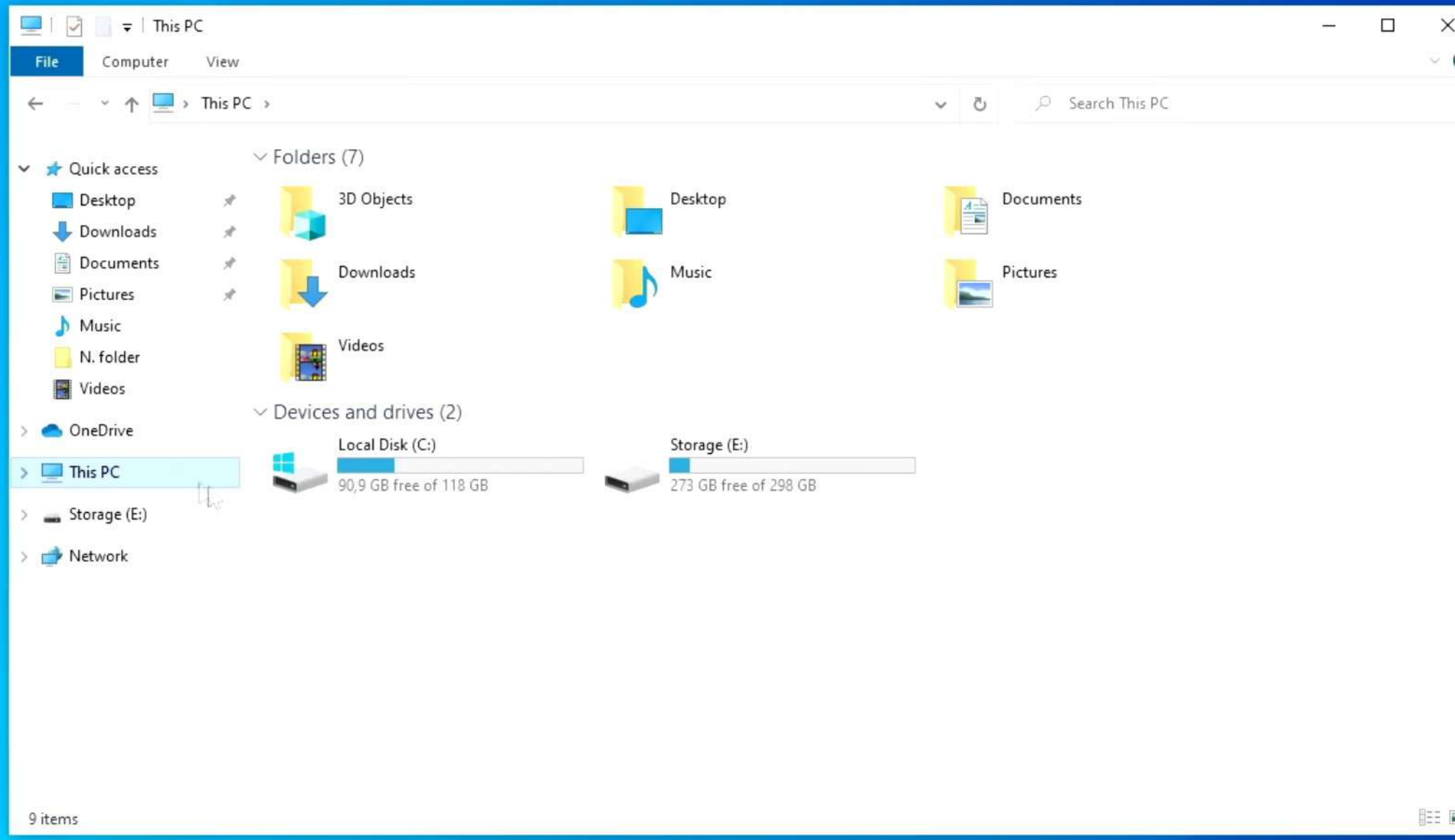
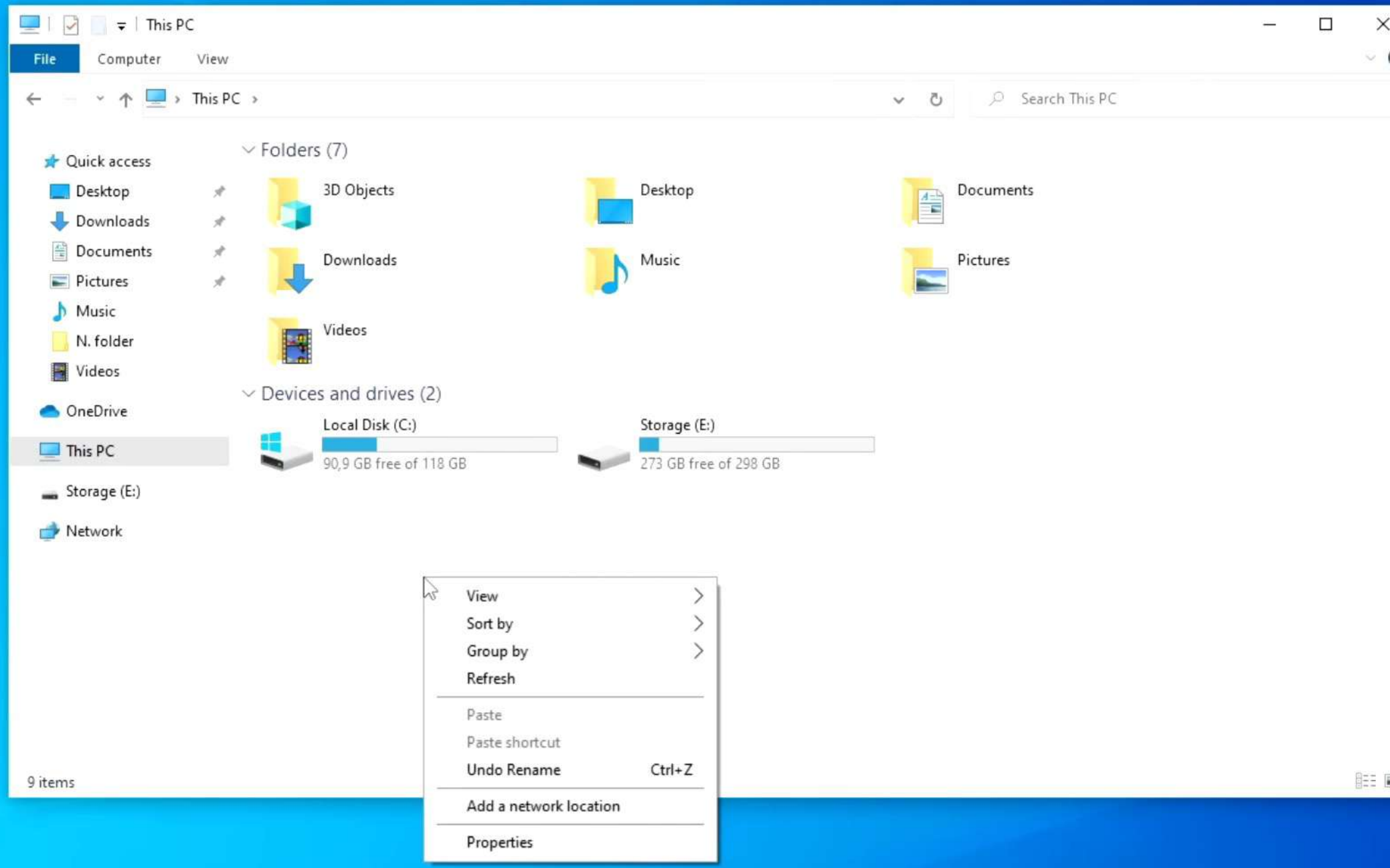
computer
PC-2


File Explorer
File
Home
Share
View
Quick access
Search Quick access
Quick access
Desktop
Downloads
Documents
Pictures
Music
N. folder
Videos
OneDrive
This PC
Storage (E:)
Network
Frequent folders (7)
Desktop
This PC
Downloads
This PC
Documents
This PC
Pictures
This PC
Music
This PC
N. folder
This PC\Desktop
Videos
This PC
Recent files (1)
Untitled
This PC\Desktop\N. folder
8 items


This PC
File
Computer
View
This PC
Search This PC
Quick access
Desktop
Downloads
Documents
Pictures
Music
N. folder
Videos
OneDrive
This PC
Storage (E:)
Network
Folders (7)
3D Objects
Desktop
Documents
Downloads
Music
Pictures
Videos
Devices and drives (2)
Local Disk (C:)
90,9 GB free of 118 GB
Storage (E:)
273 GB free of 298 GB
9 items


This PC
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Computer
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This PC
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Documents
Pictures
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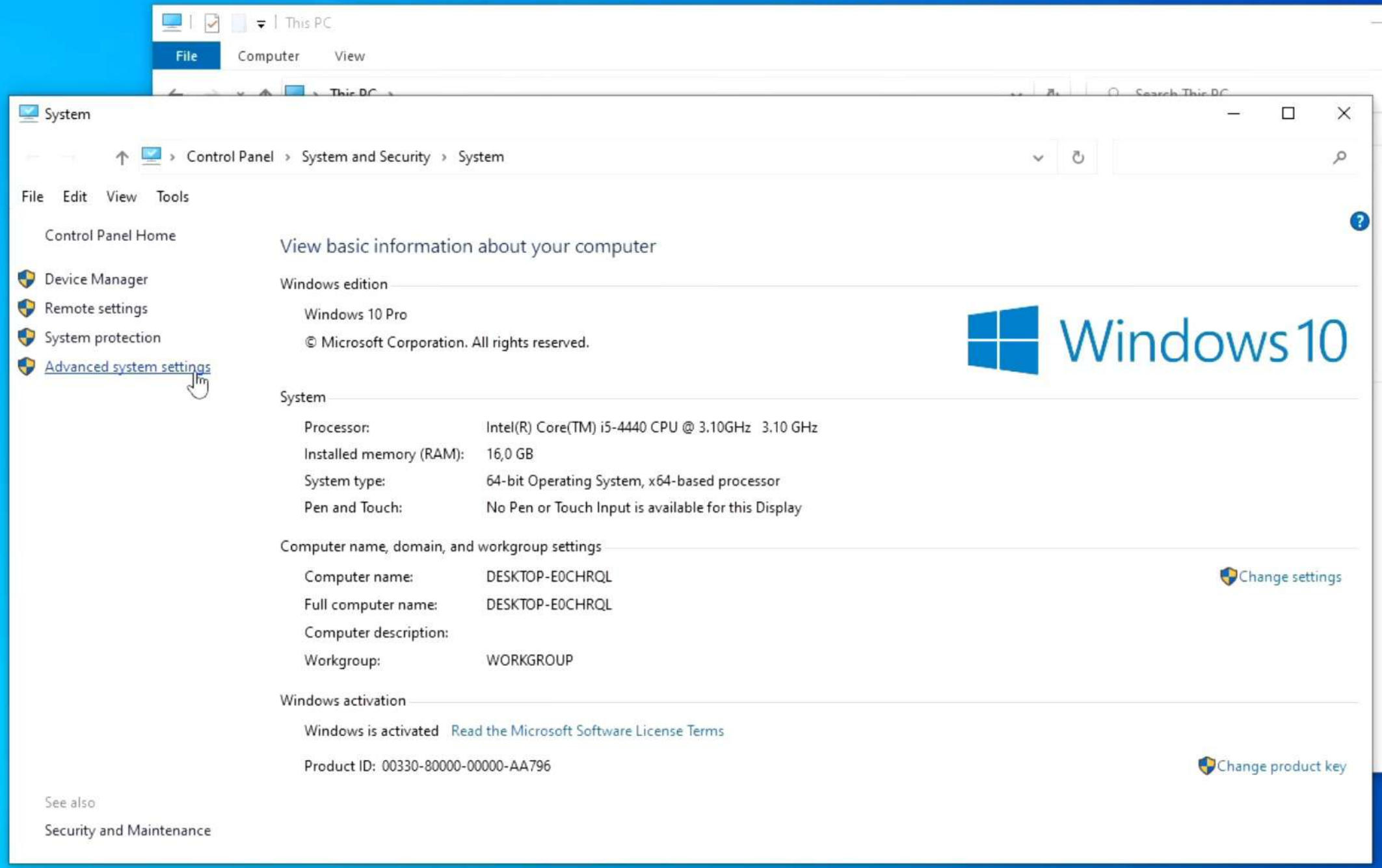
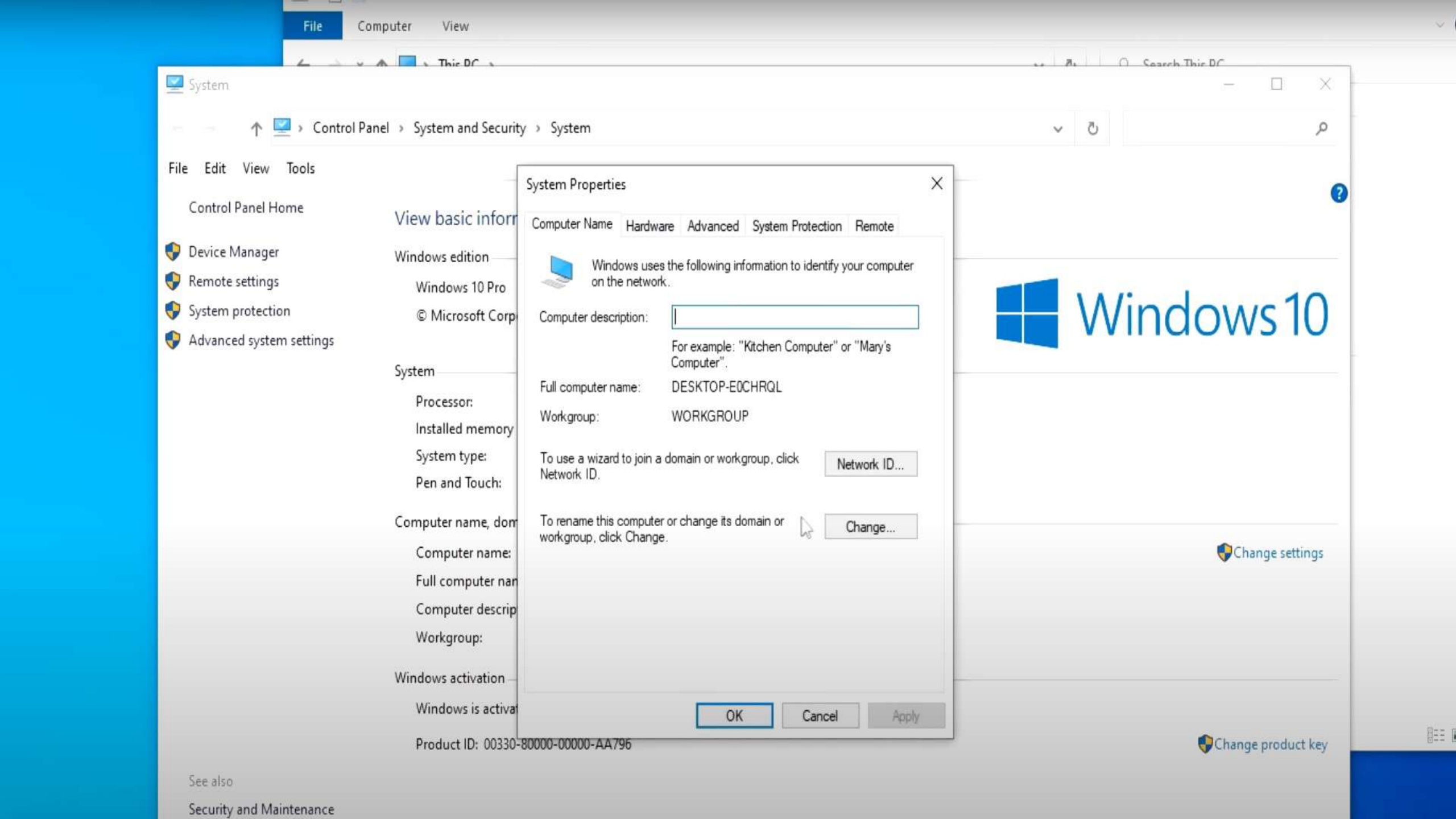
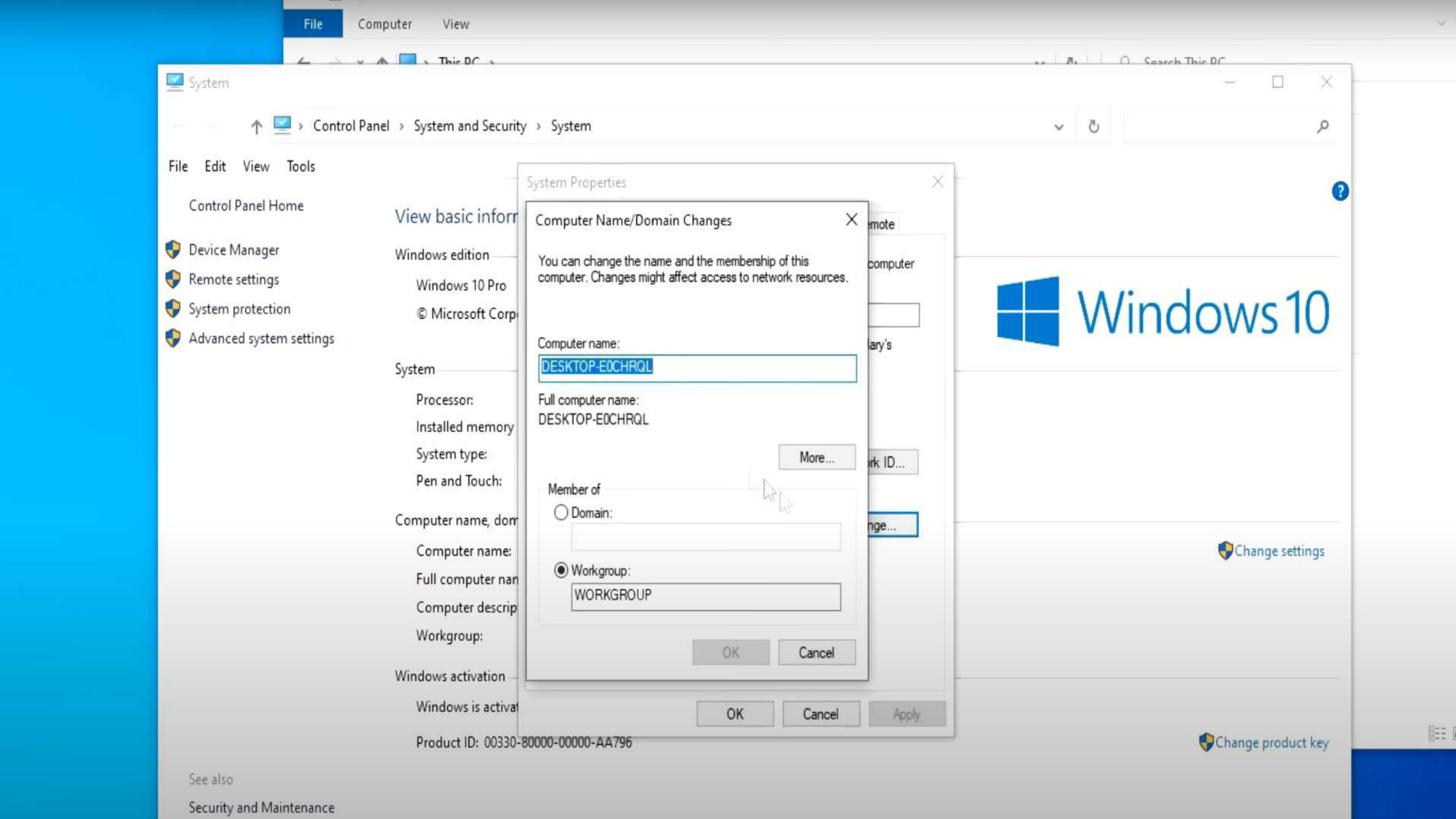
Network
Folders (7)
3D Objects
Desktop
Documents
Downloads
Music
Pictures
Videos
Devices and drives (2)
Local Disk (C:)
90,9 GB free of 118 GB
Storage (E:)
273 GB free of 298 GB
View
Sort by
Group by
Refresh
Paste
Paste shortcut
Undo Rename Ctrl+Z
Add a network location
Properties
9 items


This PC
File
Computer
View
System
Control Panel › System and Security › System
File Edit View Tools
Control Panel Home
Device Manager
Remote settings
System protection
Advanced system settings
View basic information about your computer
Windows edition
Windows 10 Pro
© Microsoft Corporation. All rights reserved.
Windows 10
System
Processor: Intel(R) Core(TM) i5-4440 CPU @ 3.10GHz 3.10 GHz
Installed memory (RAM): 16,0 GB
System type: 64-bit Operating System, x64-based processor
Pen and Touch: No Pen or Touch Input is available for this Display
Computer name, domain, and workgroup settings
Computer name: DESKTOP-E0CHRQL
Change settings
Full computer name: DESKTOP-E0CHRQL
Computer description:
Workgroup: WORKGROUP
Windows activation
Windows is activated Read the Microsoft Software License Terms
Product ID: 00330-80000-00000-AA796
Change product key
See also
Security and Maintenance


File
Computer
View
This PC
Search This PC
System
Control Panel › System and Security › System
File Edit View Tools
Control Panel Home
Device Manager
Remote settings
System protection
Advanced system settings
View basic inform
Windows edition
Windows 10 Pro
© Microsoft Corp
System
Processor:
Installed memory
System type:
Pen and Touch:
Computer name, dom
Computer name:
Full computer nan
Computer descrip
Workgroup:
Windows activation
Windows is activat
Product ID: 00330-80000-00000-AA796
Windows 10
Change settings
Change product key
See also
Security and Maintenance
System Properties
Computer Name
Hardware
Advanced
System Protection
Remote
Windows uses the following information to identify your computer on the network.
Computer description:
For example: "Kitchen Computer" or "Mary's Computer".
Full computer name: DESKTOP-E0CHRQL
Workgroup: WORKGROUP
To use a wizard to join a domain or workgroup, click Network ID.
Network ID...
To rename this computer or change its domain or workgroup, click Change.
Change...
OK
Cancel
Apply


File
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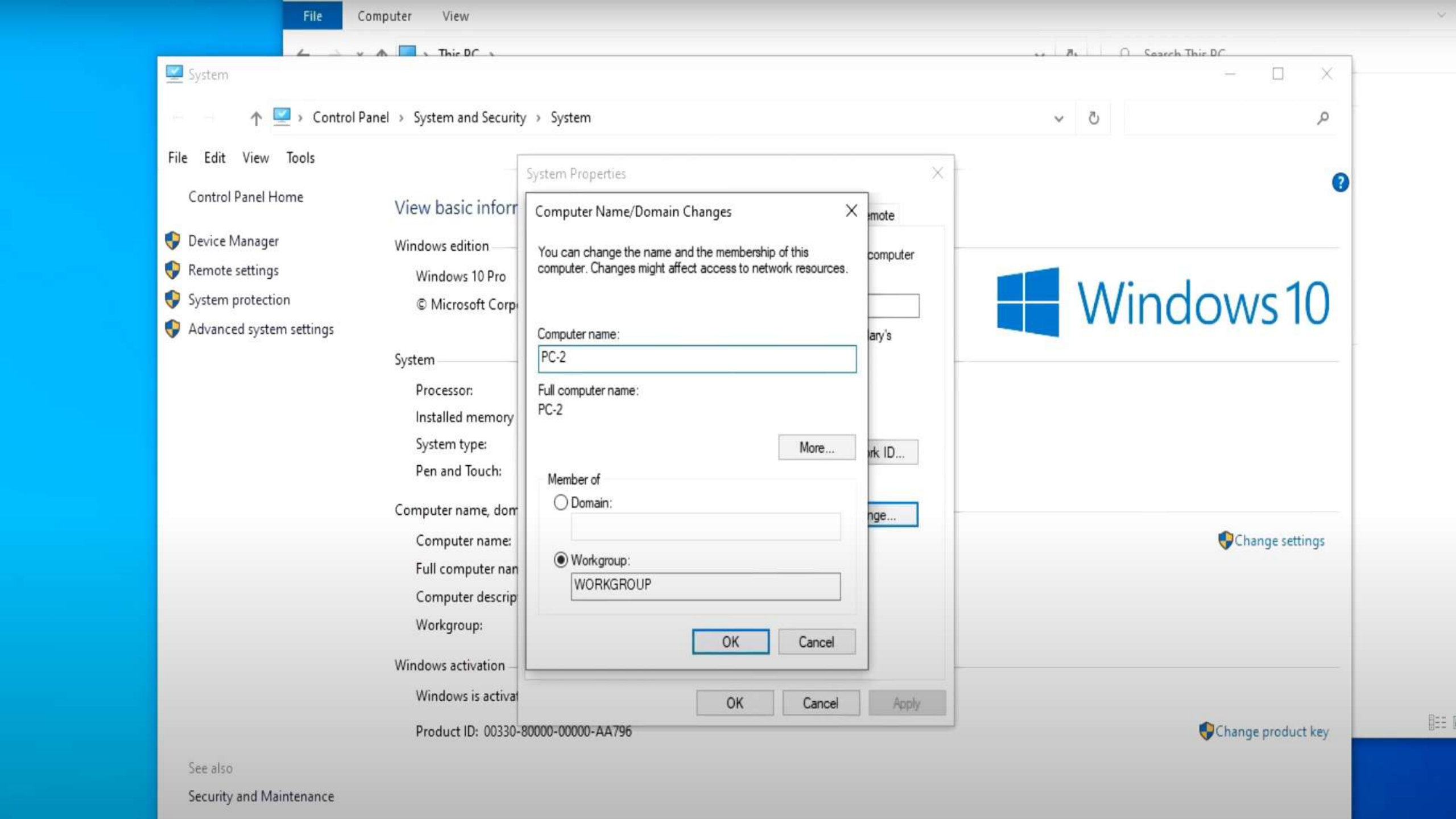
Computer name, dom
Computer name:
Full computer nan
Computer descrip
Workgroup:
Windows activation
Windows is activat
Product ID: 00330-80000-00000-AA796
See also
Security and Maintenance
System Properties
Computer Name/Domain Changes
You can change the name and the membership of this computer. Changes might affect access to network resources.
Computer name:
DESKTOP-E0CHRQL
Full computer name:
DESKTOP-E0CHRQL
More...
Member of
Domain:
Workgroup:
WORKGROUP
OK
Cancel
OK
Cancel
Apply
Windows 10
Change settings
Change product key


File
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View
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Search This PC
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File Edit View Tools
Control Panel Home
Device Manager
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View basic inform
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Full computer nan
Computer descrip
Workgroup:
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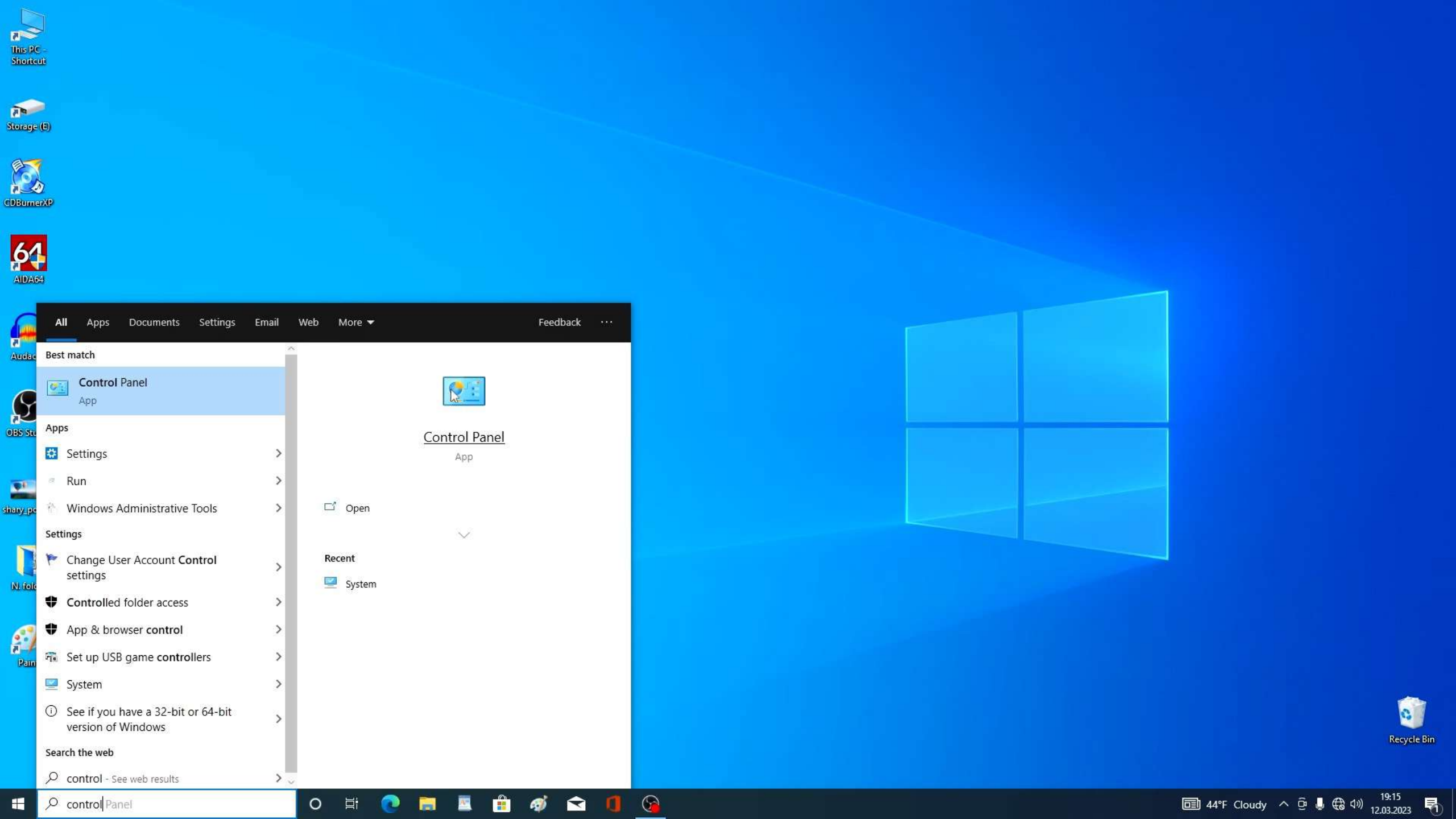
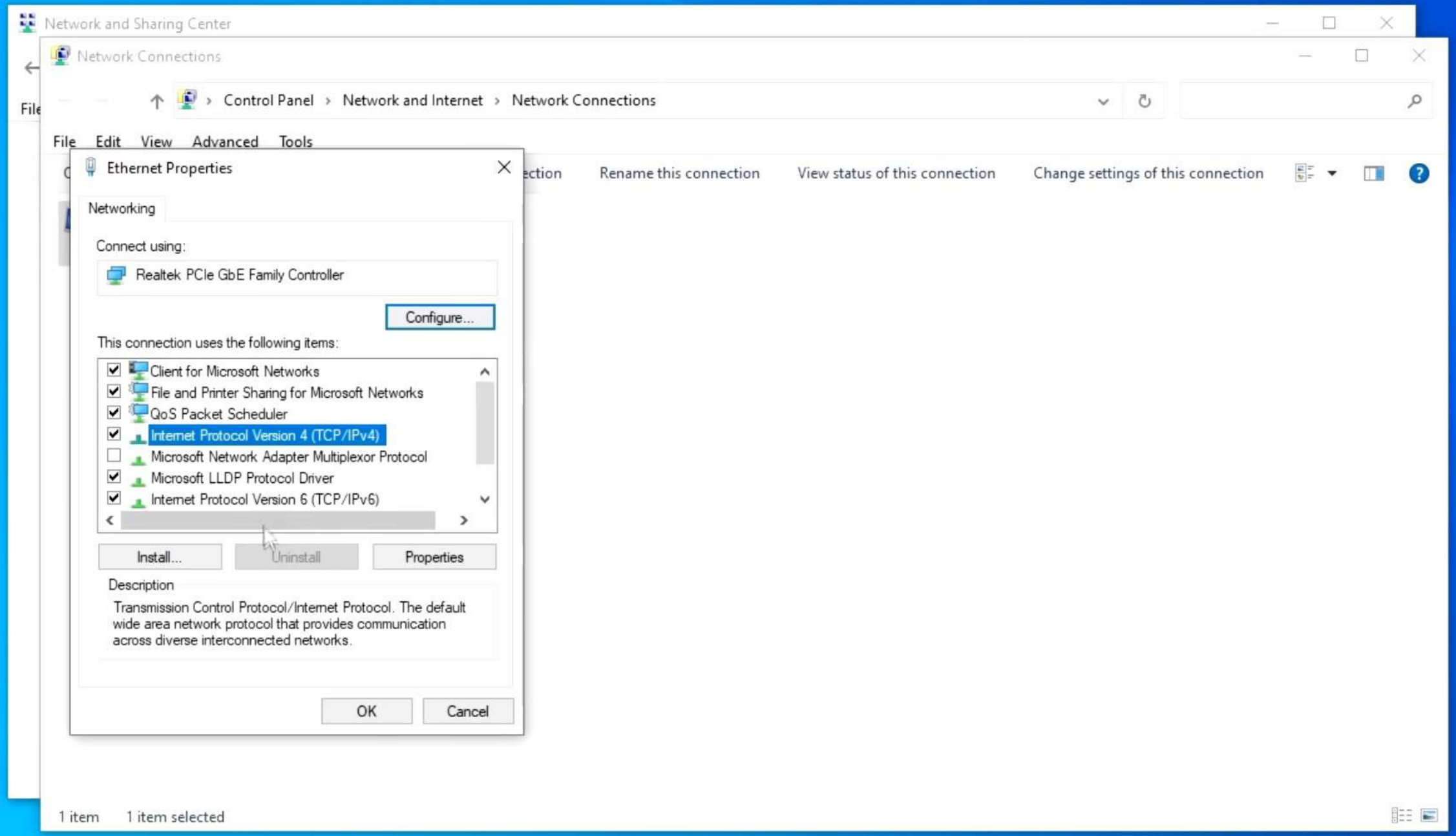
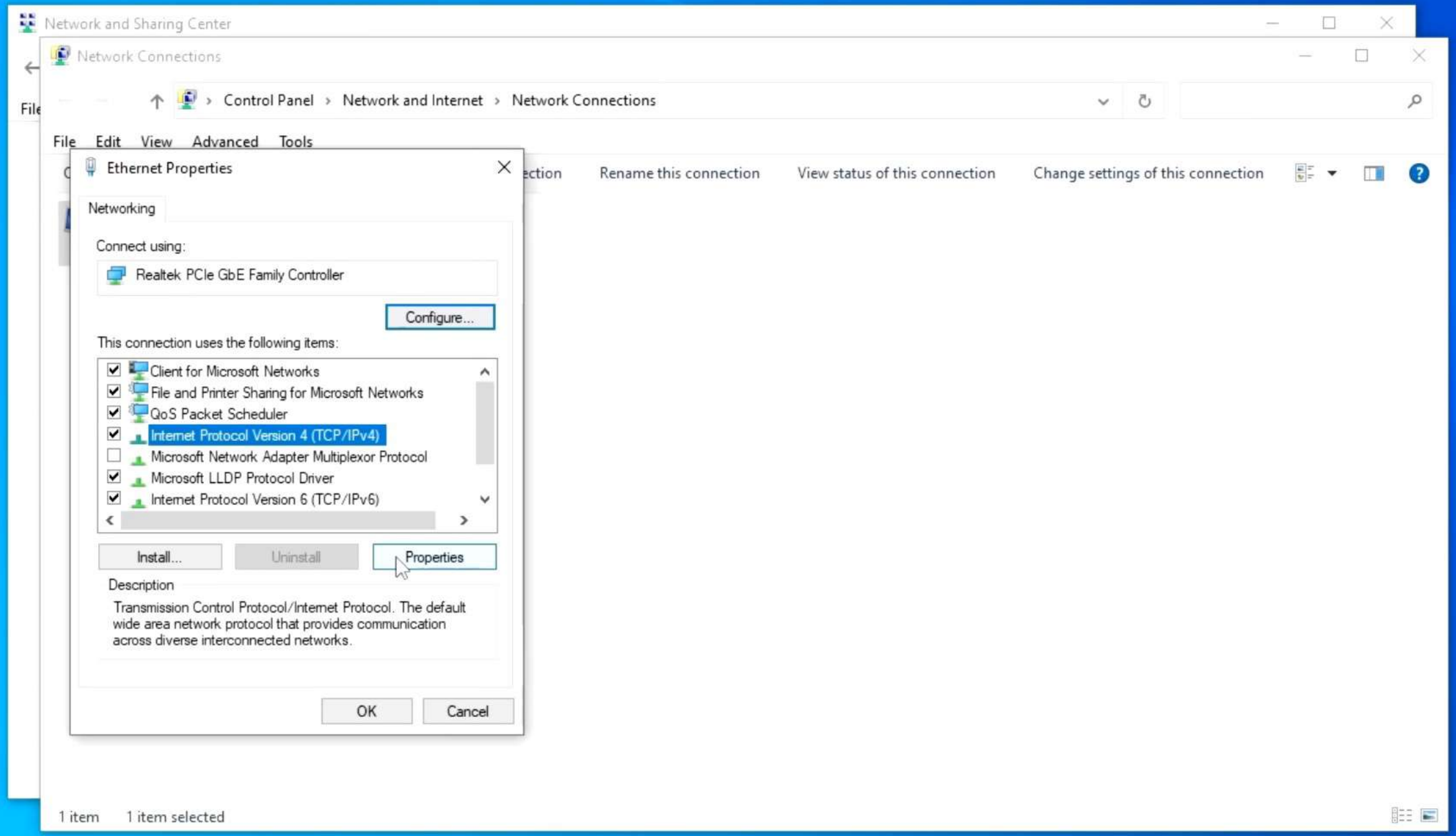
Windows is activat
Product ID: 00330-80000-00000-AA796
See also
Security and Maintenance
System Properties
Computer Name/Domain Changes
You can change the name and the membership of this computer. Changes might affect access to network resources.
Computer name:
PC-2
Full computer name:
PC-2
More...
Member of
Domain:
Workgroup:
WORKGROUP
OK
Cancel
OK
Cancel
Apply
Windows 10
Change settings
Change product key


This PC - Shortcut
Storage (E)
CDBurnerXP
AIDA64
All
Apps
Documents
Settings
Email
Web
More
Feedback
Best match
Control Panel
App
Apps
Settings
Run
Windows Administrative Tools
Settings
Change User Account Control settings
Controlled folder access
App & browser control
Set up USB game controllers
System
See if you have a 32-bit or 64-bit version of Windows
Search the web
control - See web results
Control Panel
App
Open
Recent
System
control Panel
Recycle Bin
44°F Cloudy
19:15
12.03.2023


Network and Sharing Center
Network Connections
Control Panel › Network and Internet › Network Connections
File Edit View Advanced Tools
Rename this connection
View status of this connection
Change settings of this connection
Ethernet Properties
Networking
Connect using:
Realtek PCIe GbE Family Controller
Configure...
This connection uses the following items:
Client for Microsoft Networks
File and Printer Sharing for Microsoft Networks
QoS Packet Scheduler
Internet Protocol Version 4 (TCP/IPv4)
Microsoft Network Adapter Multiplexor Protocol
Microsoft LLDP Protocol Driver
Internet Protocol Version 6 (TCP/IPv6)
Install...
Uninstall
Properties
Description
Transmission Control Protocol/Internet Protocol. The default wide area network protocol that provides communication across diverse interconnected networks.
OK
Cancel
1 item
1 item selected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Uninstall
Properties
Description
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OK
Cancel
1 item
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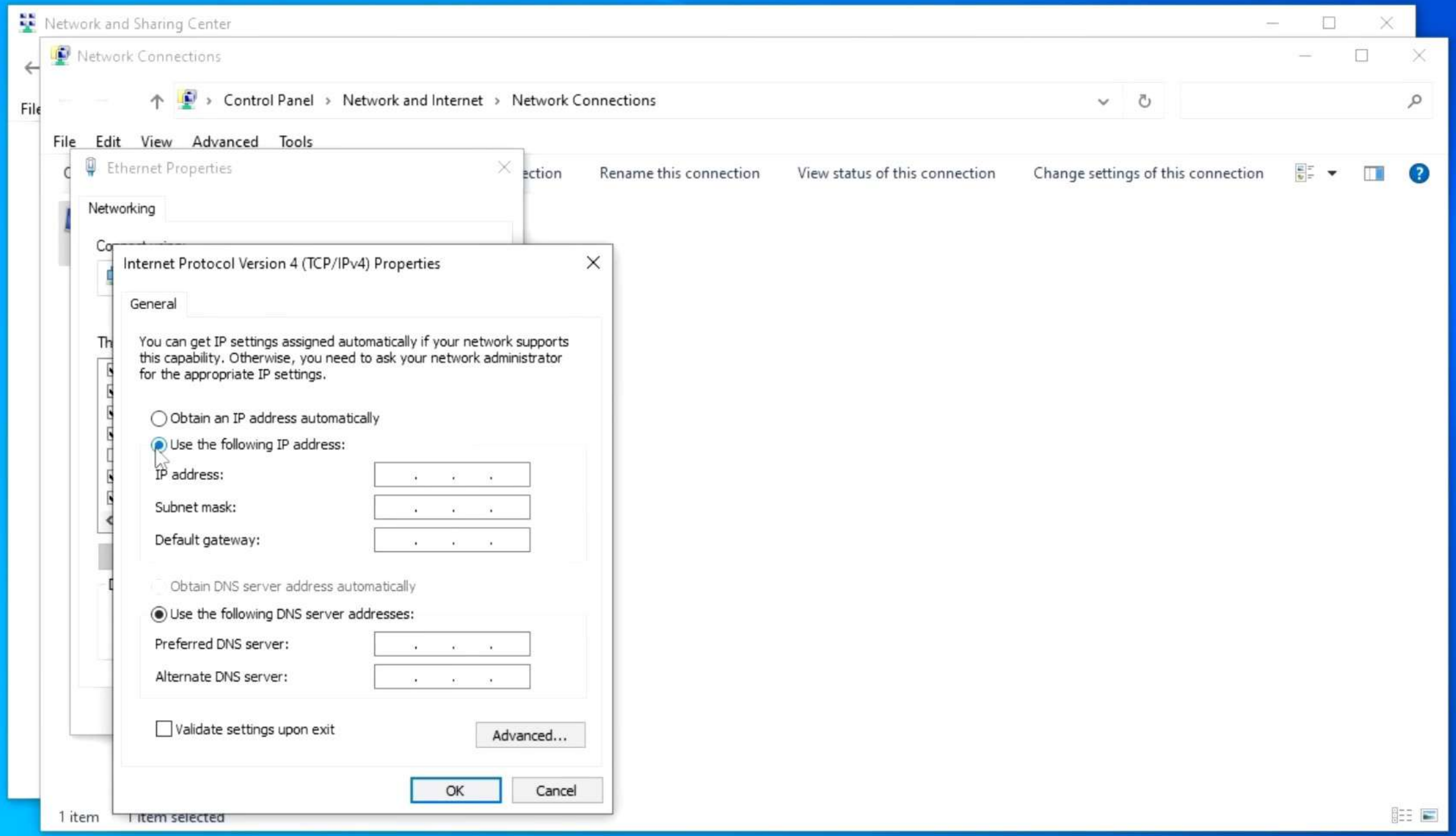
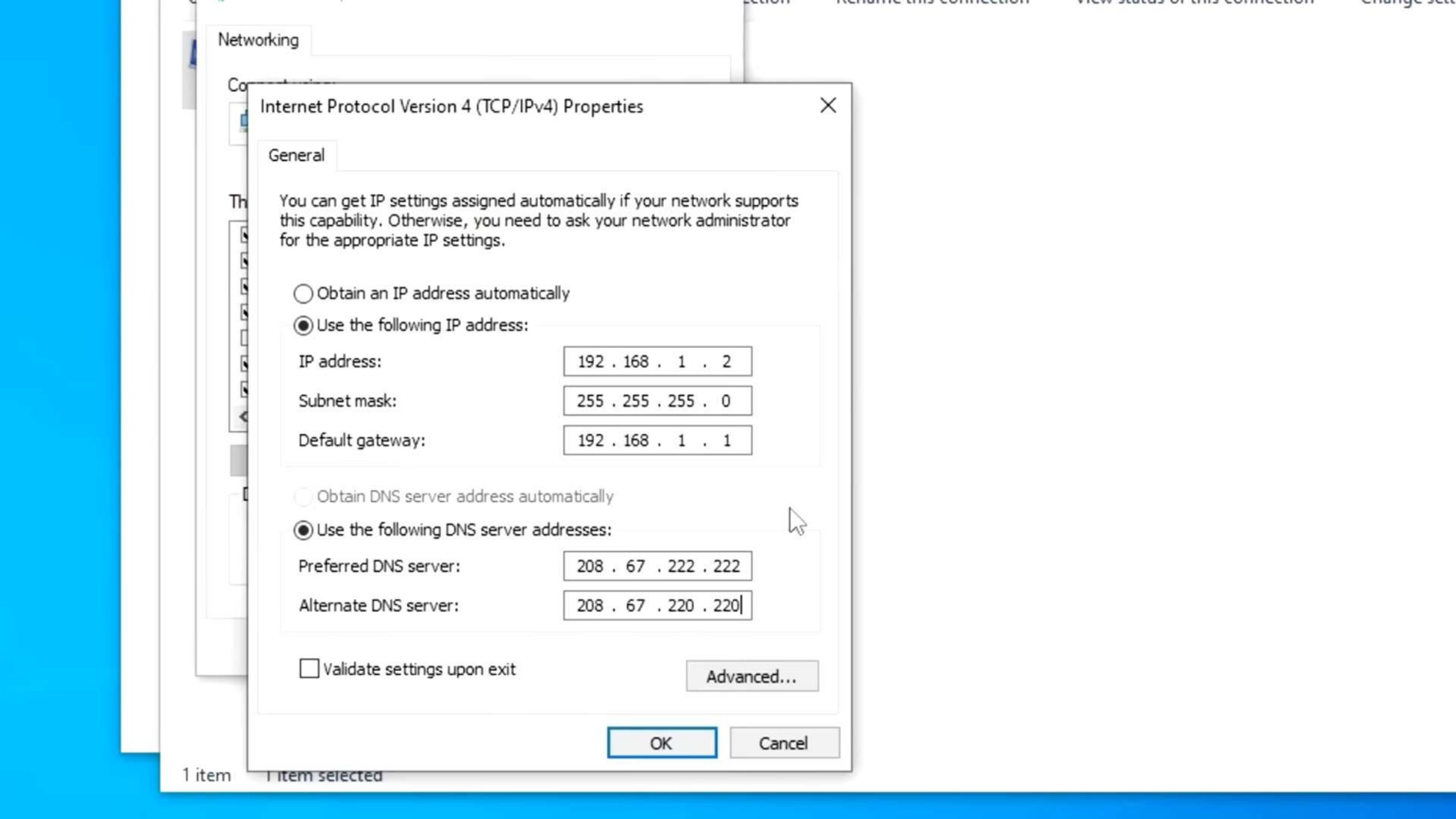
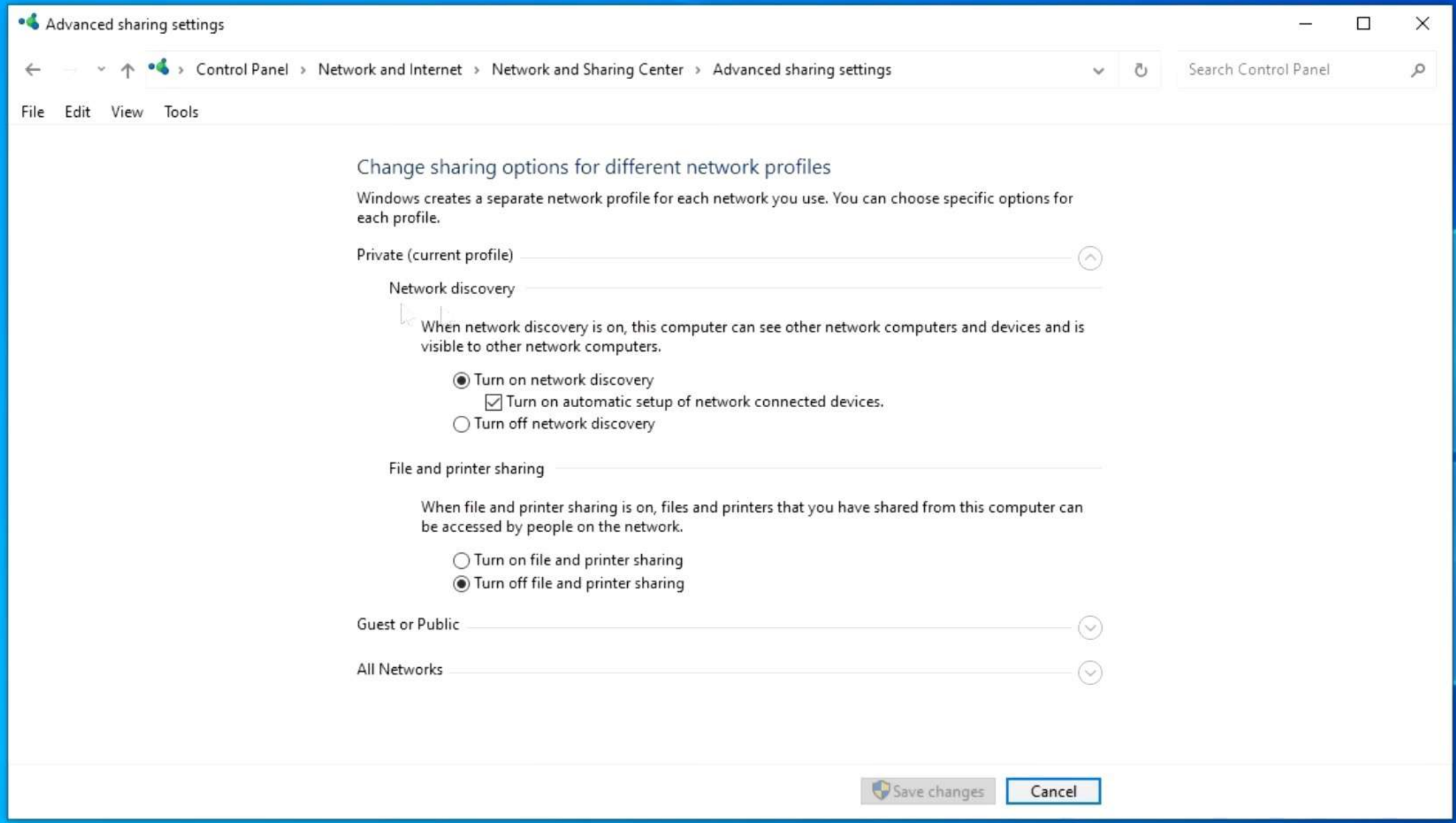
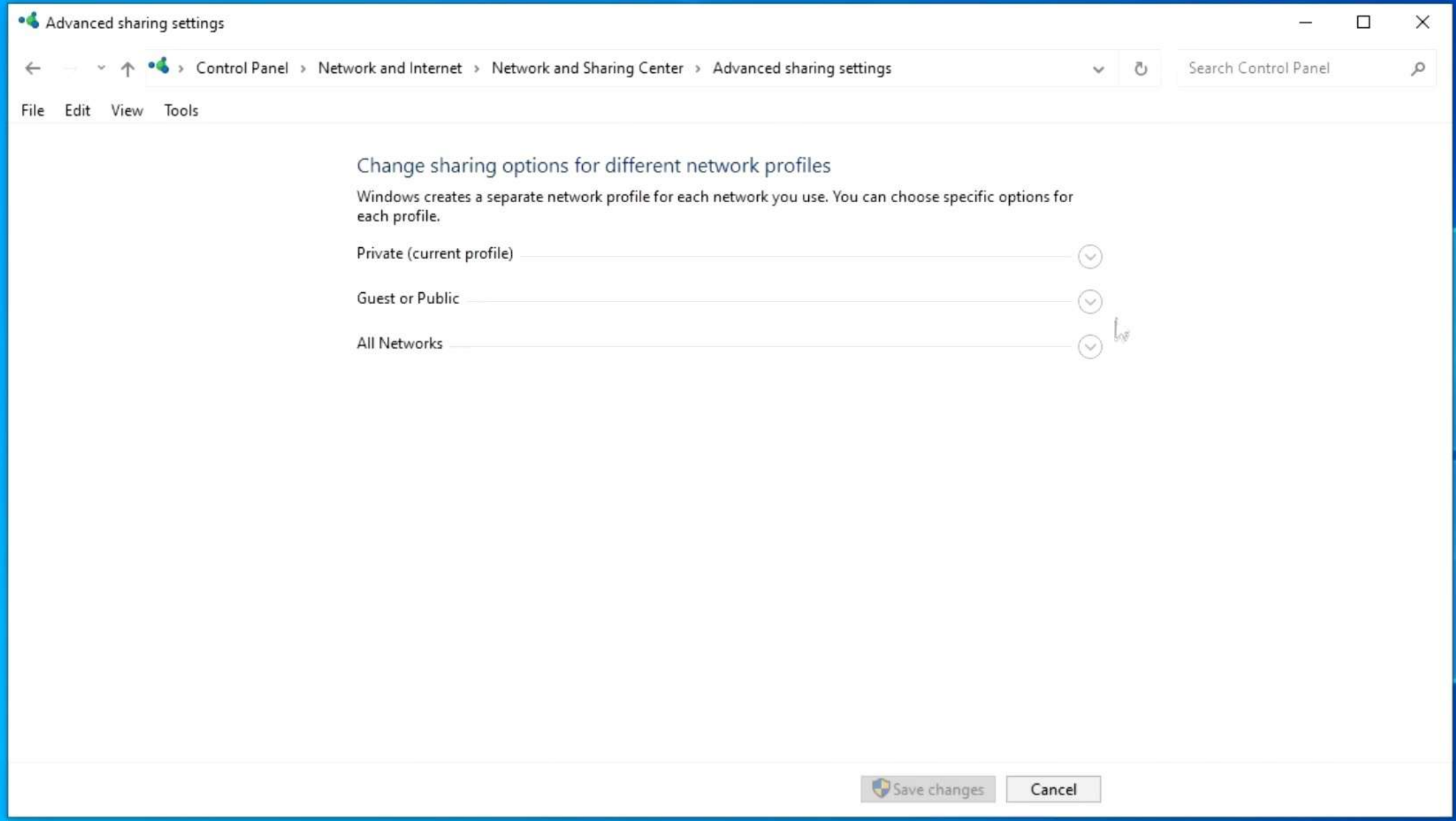

Network and Sharing Center
Network Connections
Control Panel › Network and Internet › Network Connections
File Edit View Advanced Tools
Rename this connection
View status of this connection
Change settings of this connection
Ethernet Properties
Networking
Internet Protocol Version 4 (TCP/IPv4) Properties
General
You can get IP settings assigned automatically if your network supports this capability. Otherwise, you need to ask your network administrator for the appropriate IP settings.
Obtain an IP address automatically
Use the following IP address:
IP address:
Subnet mask:
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
1 item
1 item selected


Networking
Internet Protocol Version 4 (TCP/IPv4) Properties
General
You can get IP settings assigned automatically if your network supports this capability. Otherwise, you need to ask your network administrator for the appropriate IP settings.
Obtain an IP address automatically
Use the following IP address:
IP address: 192 . 168 . 1 . 2
Subnet mask: 255 . 255 . 255 . 0
Default gateway: 192 . 168 . 1 . 1
Obtain DNS server address automatically
Use the following DNS server addresses:
Preferred DNS server: 208 . 67 . 222 . 222
Alternate DNS server: 208 . 67 . 220 . 220
Validate settings upon exit
Advanced...
OK
Cancel
1 item
1 item selected


Advanced sharing settings
Control Panel › Network and Internet › Network and Sharing Center › Advanced sharing settings
Search Control Panel
File Edit View Tools
Change sharing options for different network profiles
Windows creates a separate network profile for each network you use. You can choose specific options for each profile.
Private (current profile)
Network discovery
When network discovery is on, this computer can see other network computers and devices and is visible to other network computers.
Turn on network discovery
Turn on automatic setup of network connected devices.
Turn off network discovery
File and printer sharing
When file and printer sharing is on, files and printers that you have shared from this computer can be accessed by people on the network.
Turn on file and printer sharing
Turn off file and printer sharing
Guest or Public
All Networks
Save changes
Cancel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All Networks
Save changes
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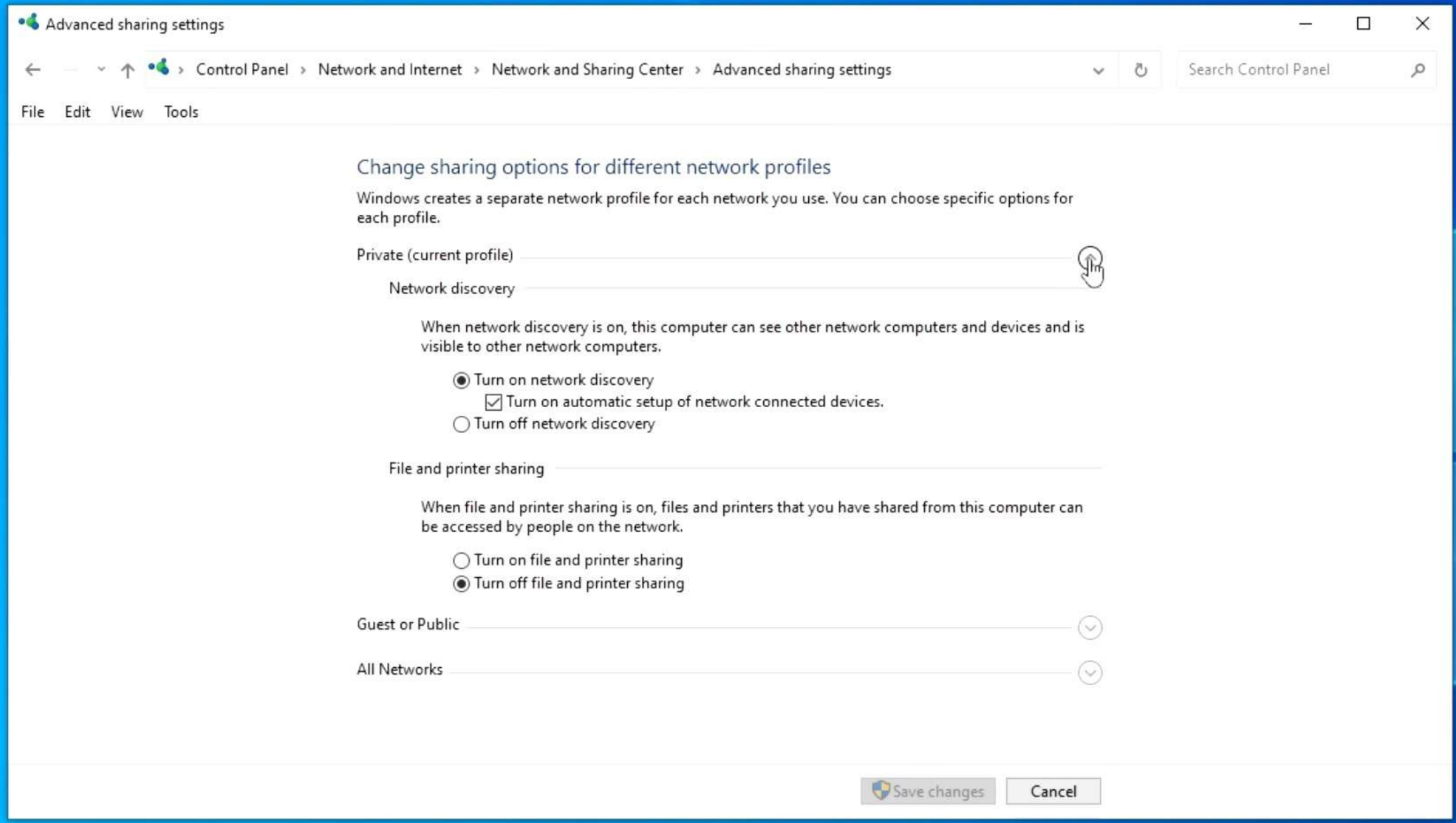
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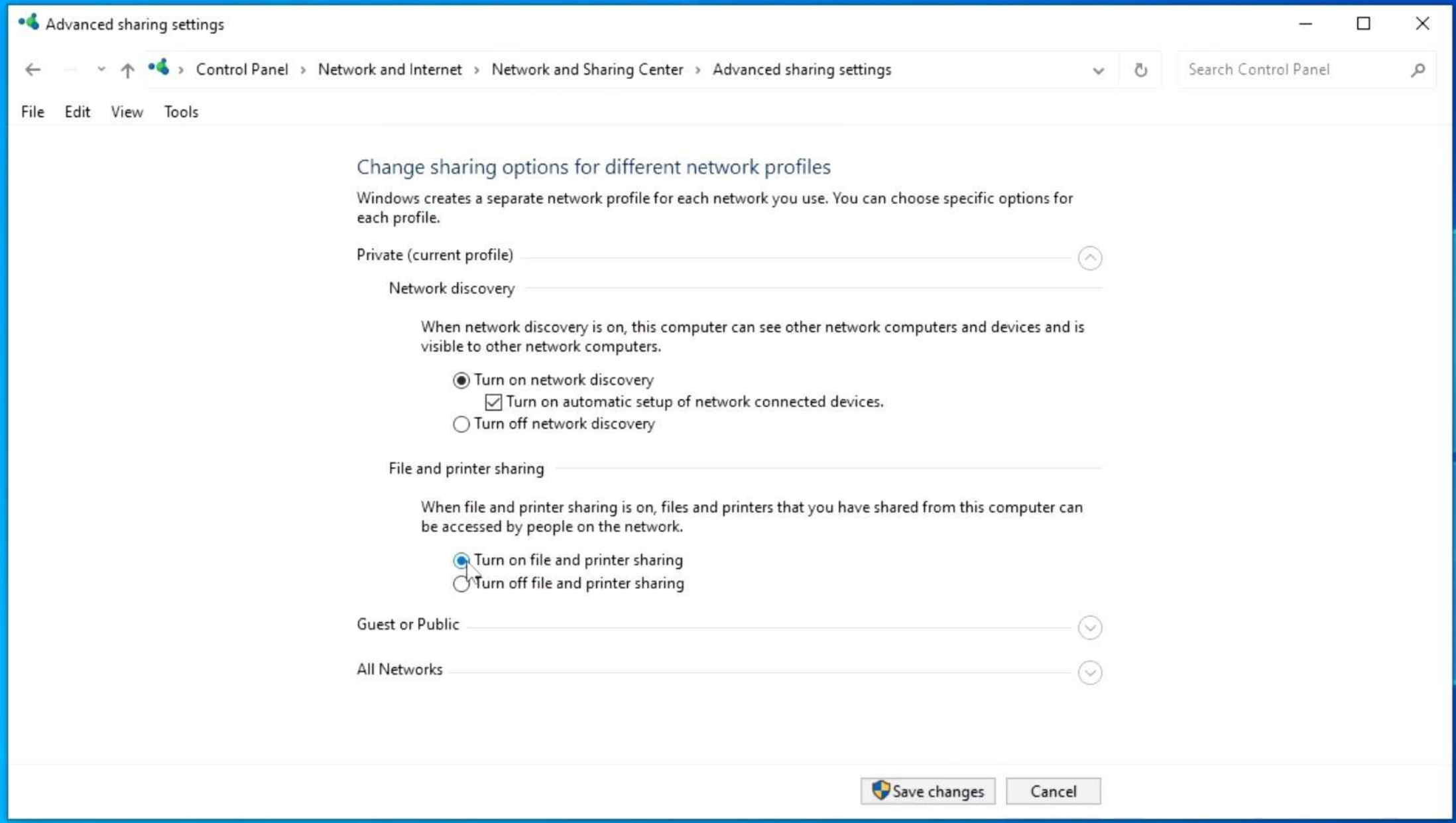
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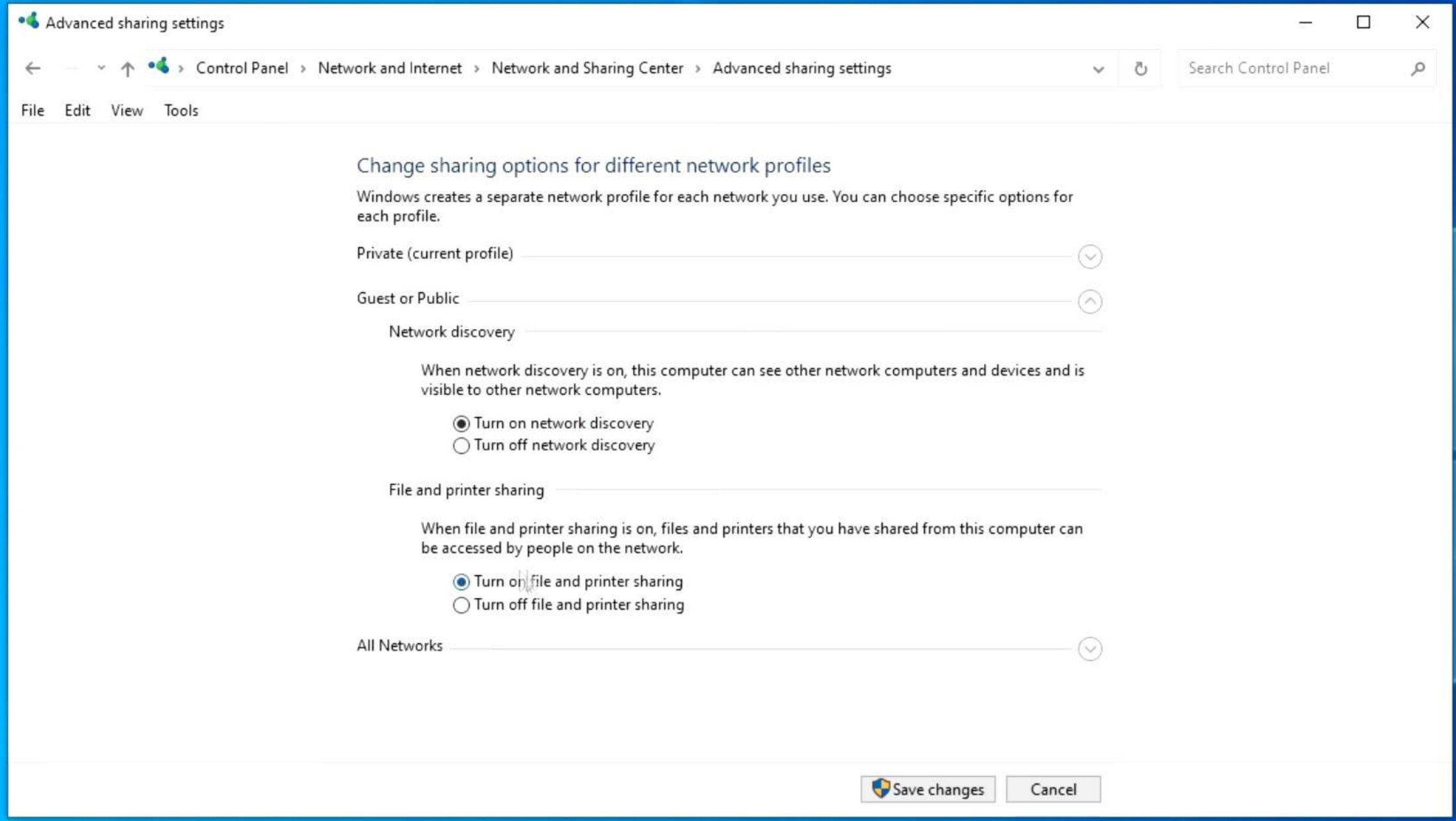
All Networks
Save changes
Cancel


Advanced sharing settings
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Search Control Panel
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Turn on file and printer sharing
Turn off file and printer sharing
All Networks
Save changes
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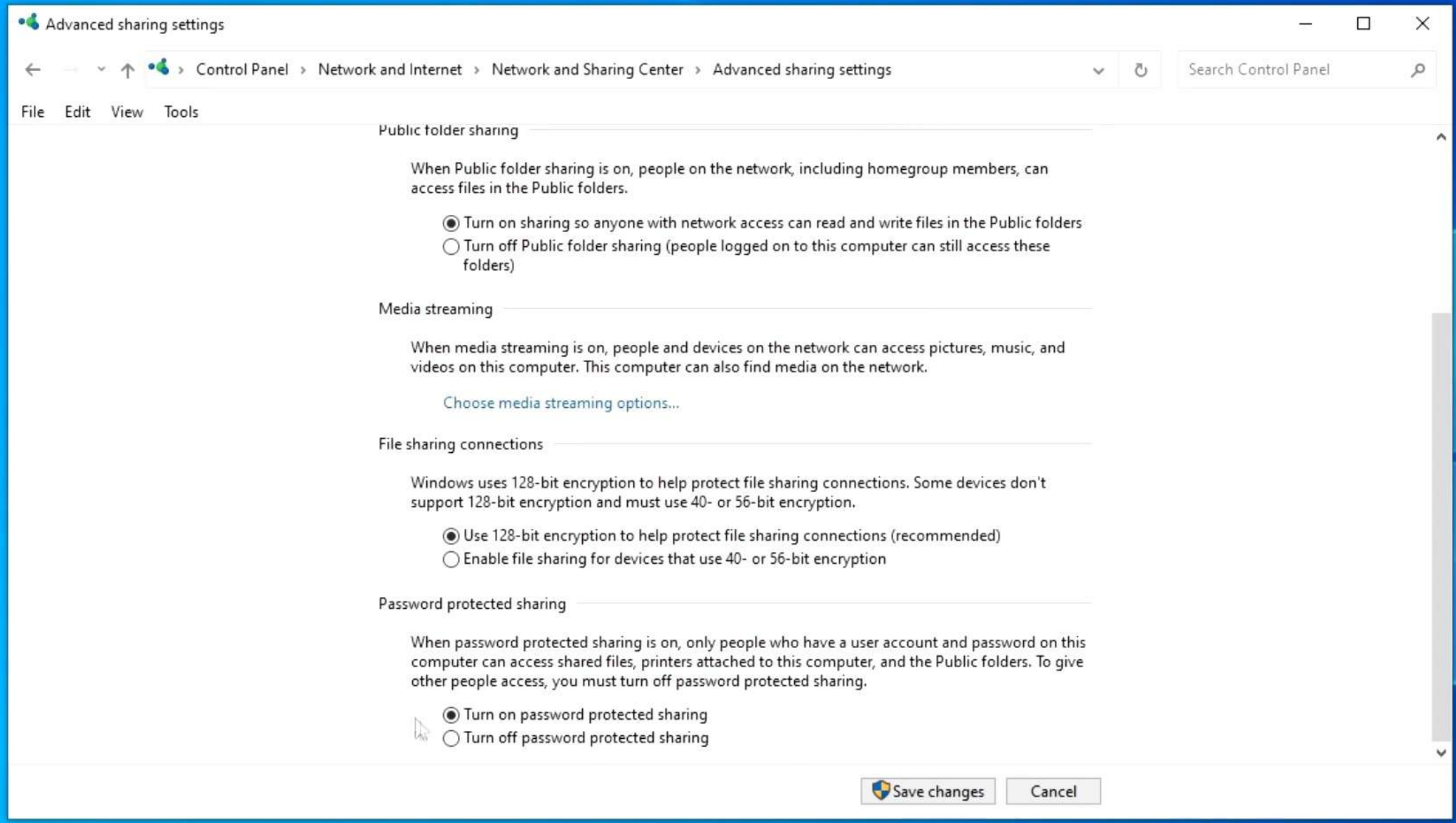
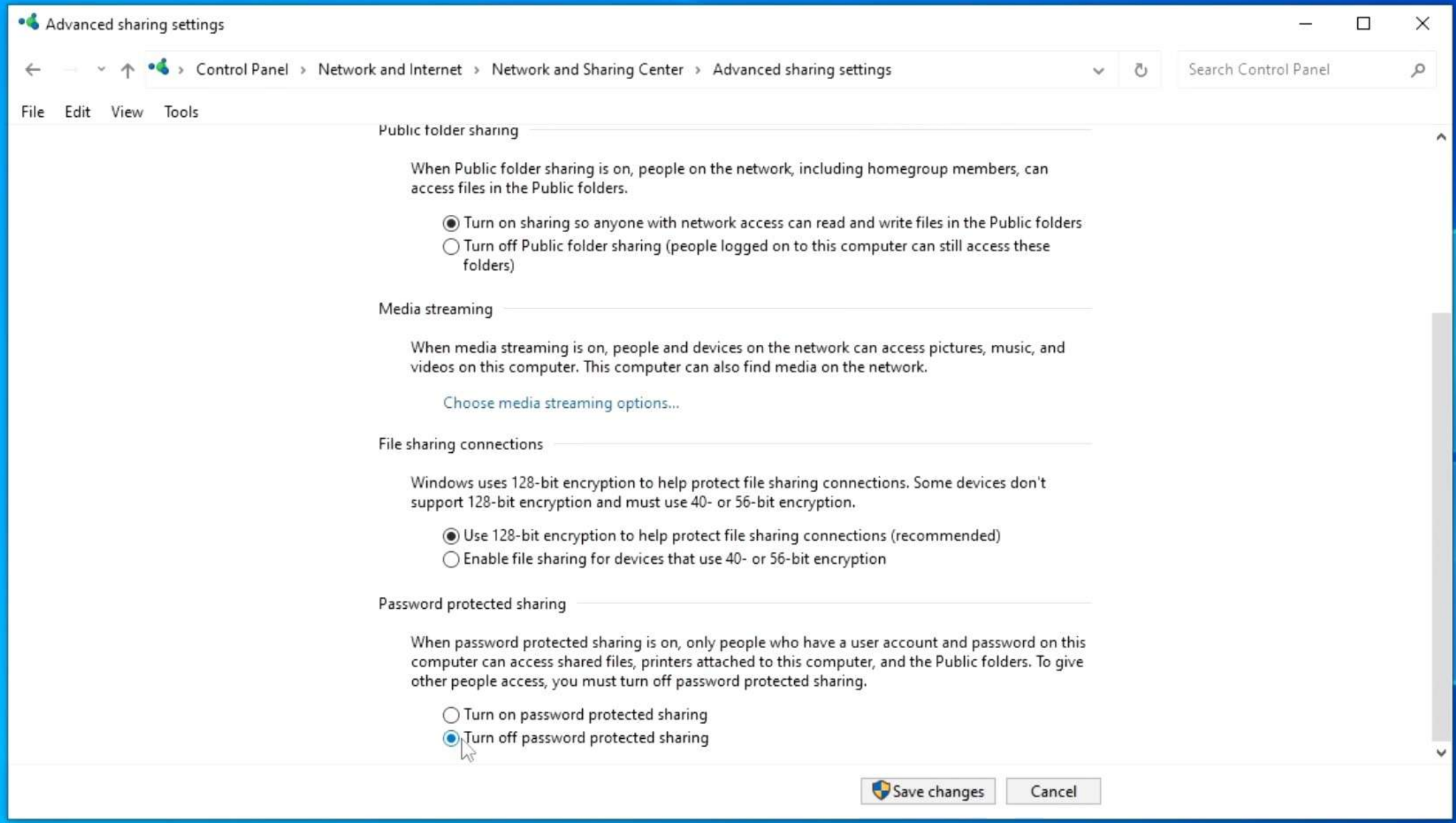

Advanced sharing settings
Control Panel › Network and Internet › Network and Sharing Center › Advanced sharing settings
Search Control Panel
File Edit View Tools
Public folder sharing
When Public folder sharing is on, people on the network, including homegroup members, can access files in the Public folders.
Turn on sharing so anyone with network access can read and write files in the Public folders
Turn off Public folder sharing (people logged on to this computer can still access these folders)
Media streaming
When media streaming is on, people and devices on the network can access pictures, music, and videos on this computer. This computer can also find media on the network.
Choose media streaming options...
File sharing connections
Windows uses 128-bit encryption to help protect file sharing connections. Some devices don't support 128-bit encryption and must use 40- or 56-bit encryption.
Use 128-bit encryption to help protect file sharing connections (recommended)
Enable file sharing for devices that use 40- or 56-bit encryption
Password protected sharing
When password protected sharing is on, only people who have a user account and password on this computer can access shared files, printers attached to this computer, and the Public folders. To give other people access, you must turn off password protected sharing.
Turn on password protected sharing
Turn off password protected sharing
Save changes
Cancel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Search Control Panel
File Edit View Tools
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Choose media streaming options...
File sharing connections
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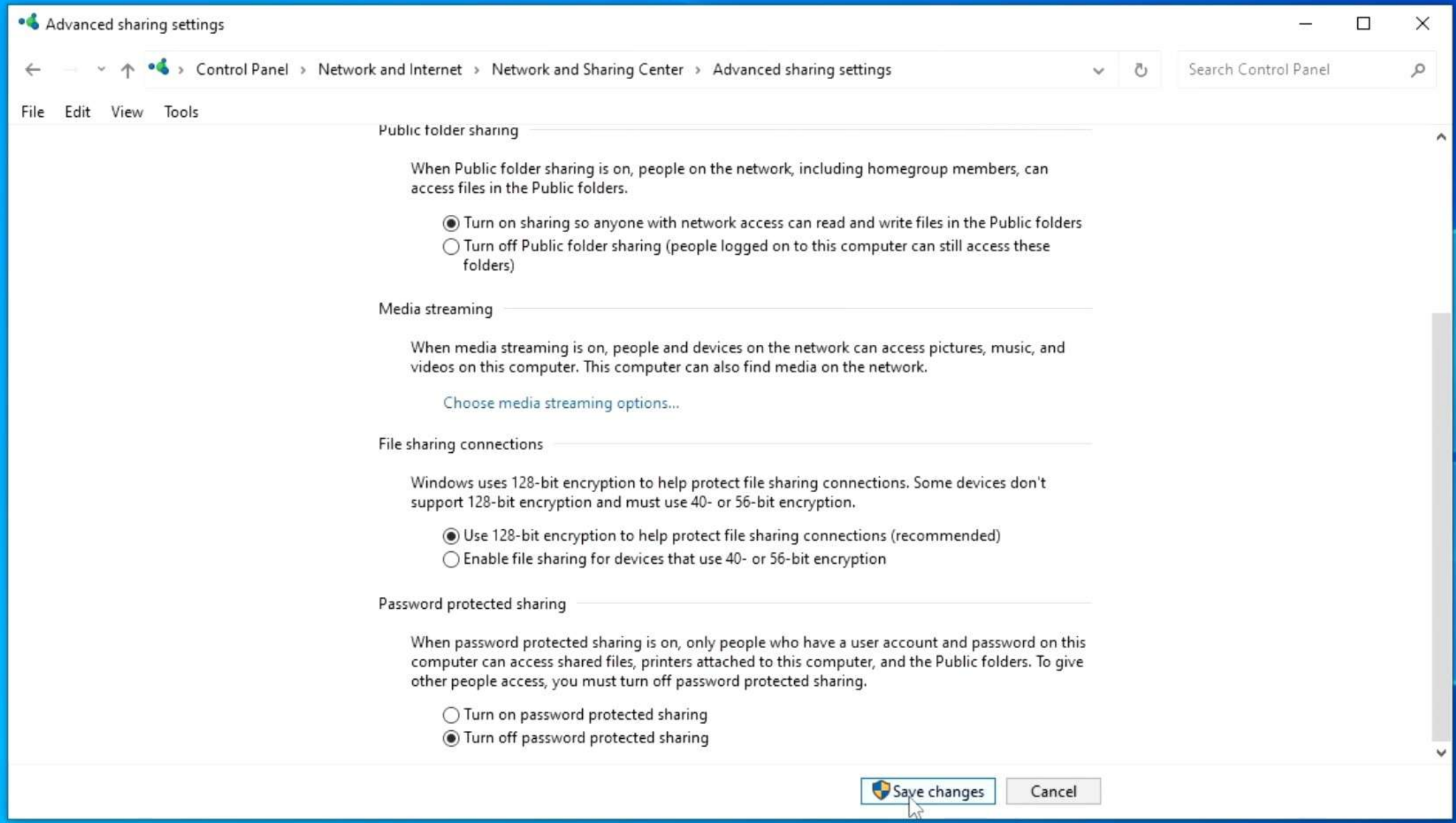
Turn on password protected sharing
Turn off password protected sharing
Save changes
Cancel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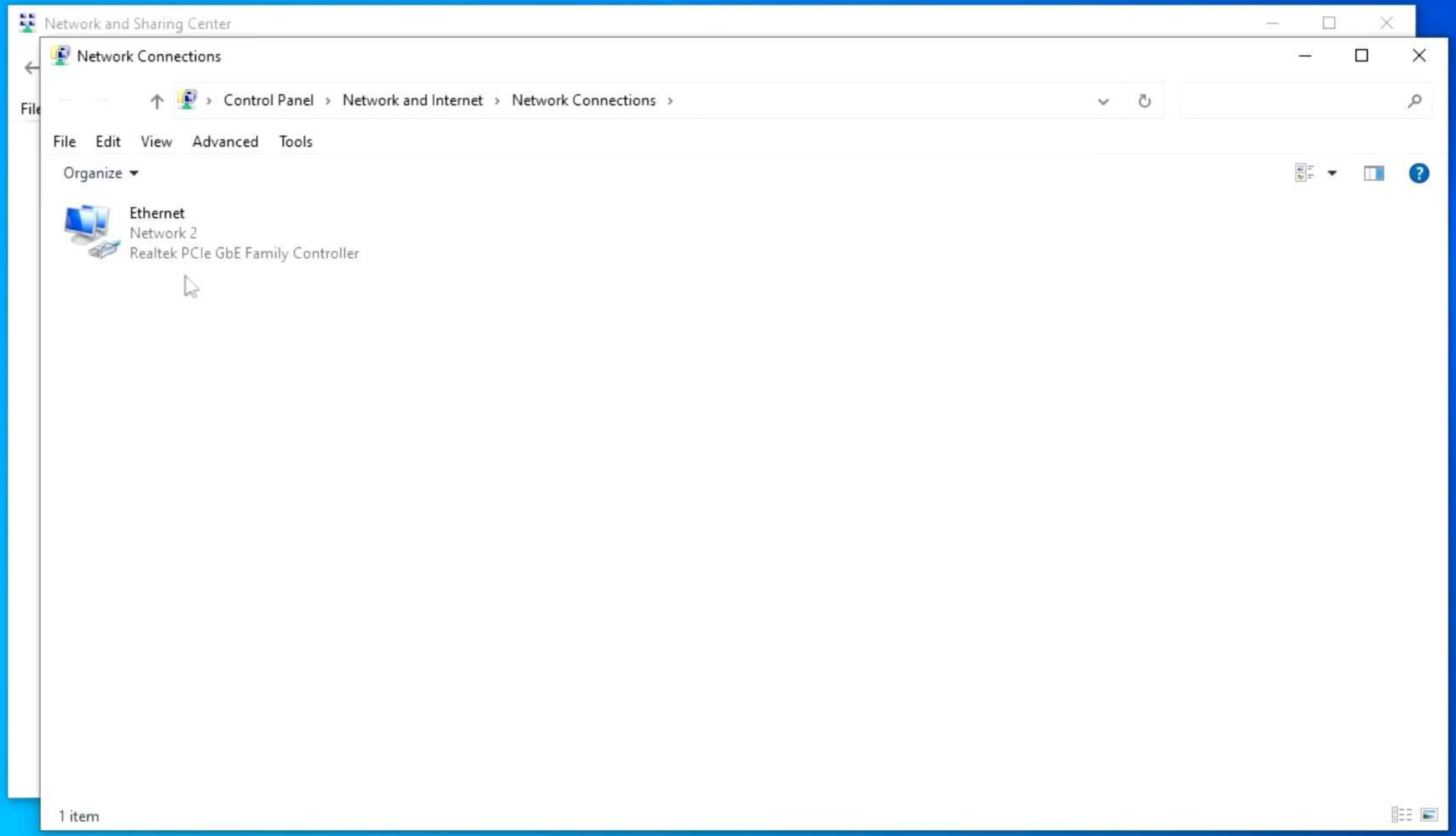
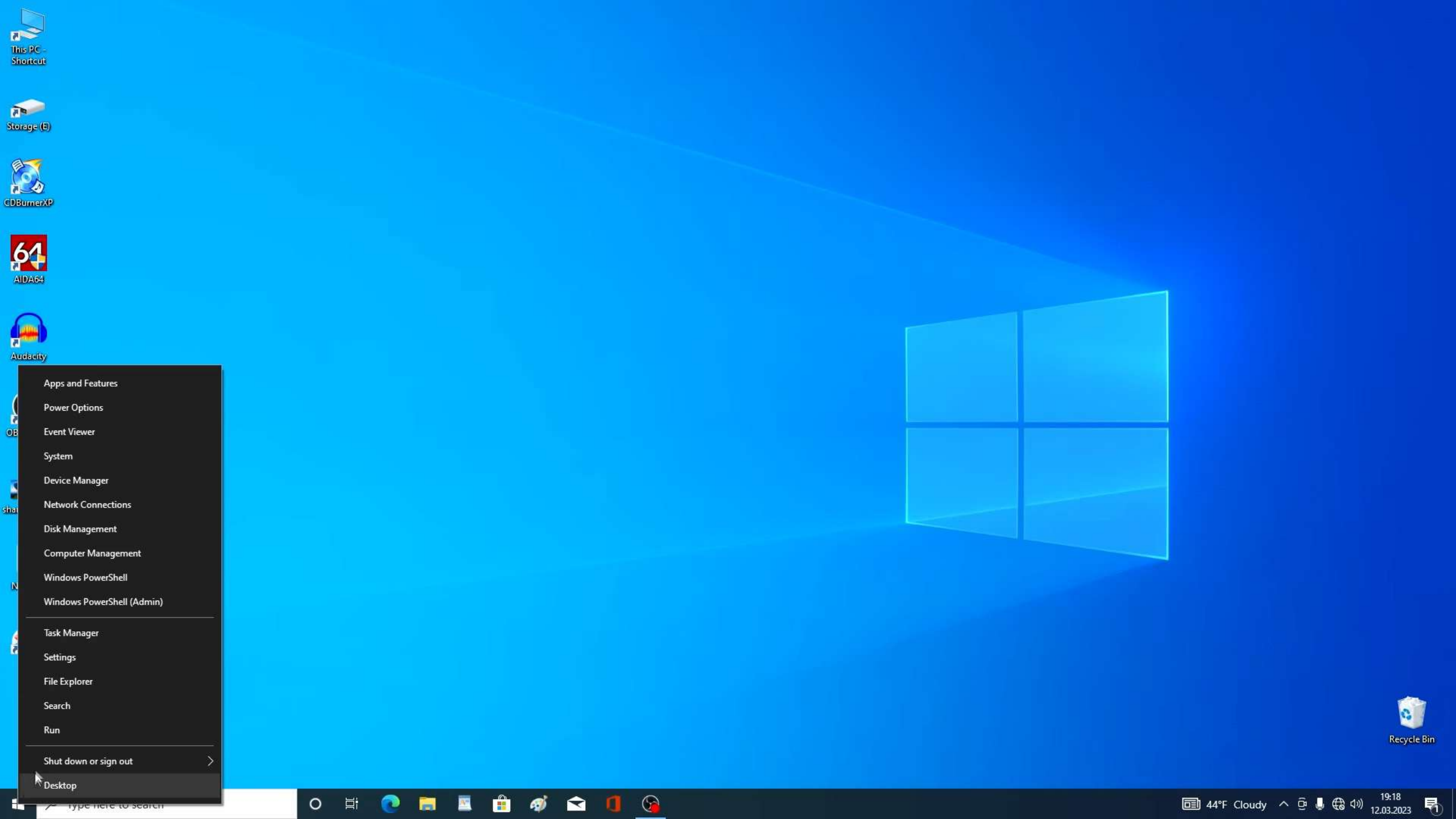
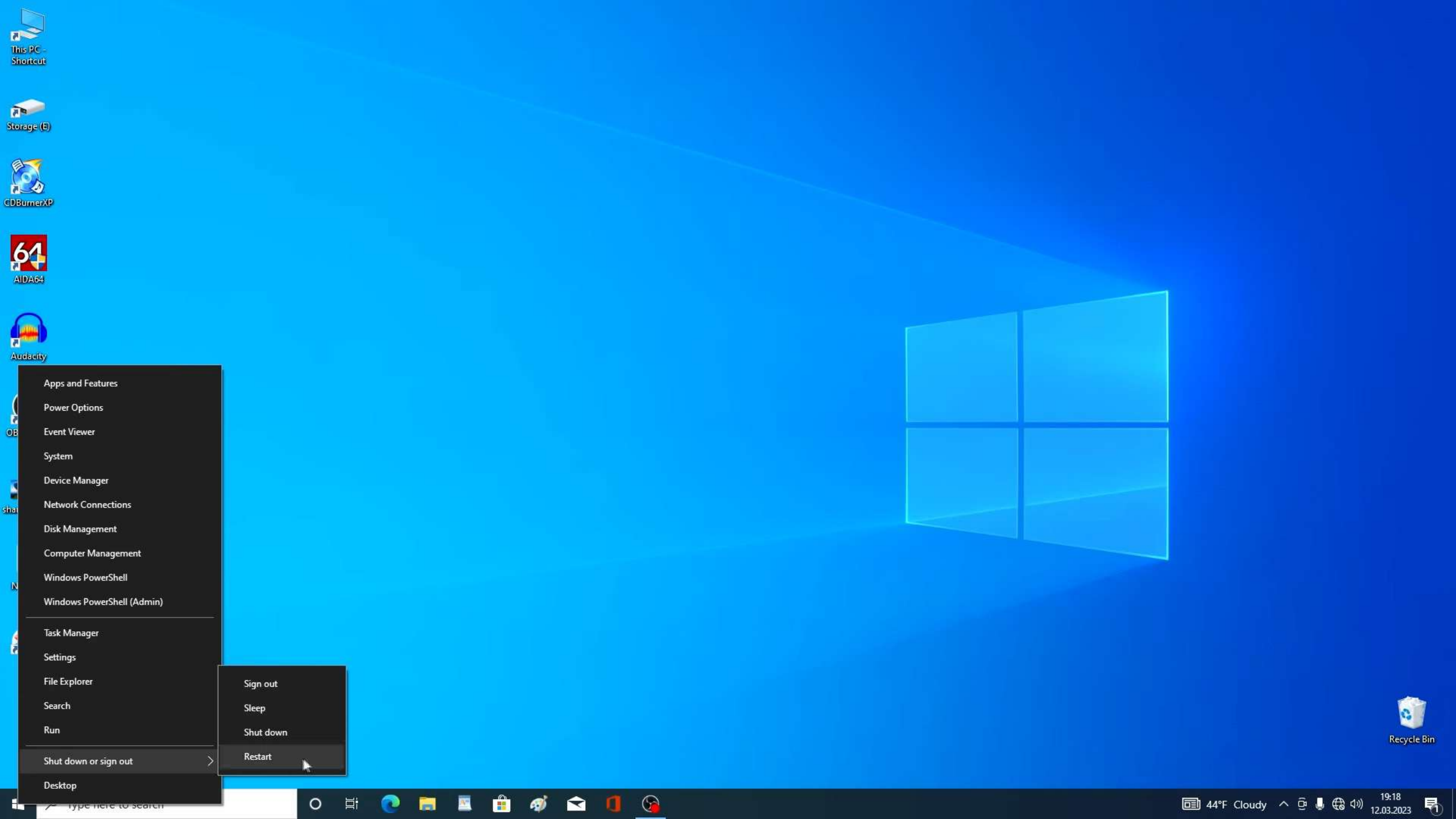

Network and Sharing Center
Network Connections
Control Panel › Network and Internet › Network Connections ›
File Edit View Advanced Tools
Organize
Ethernet
Network 2
Realtek PCIe GbE Family Controller
1 item


This PC - Shortcut
Storage (E)
CDBurnerXP
AIDA64
Audacity
Apps and Features
Power Options
Event Viewer
System
Device Manager
Network Connections
Disk Management
Computer Management
Windows PowerShell
Windows PowerShell (Admin)
Task Manager
Settings
File Explorer
Search
Run
Shut down or sign out
Desktop
Recycle Bin
44°F Cloudy
19:18
12.03.2023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Sign out
Sleep
Shut down
Restart
Recycle Bin
44°F Cloudy
19:18
12.03.2023

Network and Internet

Control Panel › Network and Internet ›

Search Control Panel

Control Panel Home

System and Security

Network and Internet

Hardware and Sound

Programs

User Accounts

Appearance and Personalization

Clock and Region

Ease of Access

Network and Sharing Center

View network status and tasks | Connect to a network | View network computers and devices

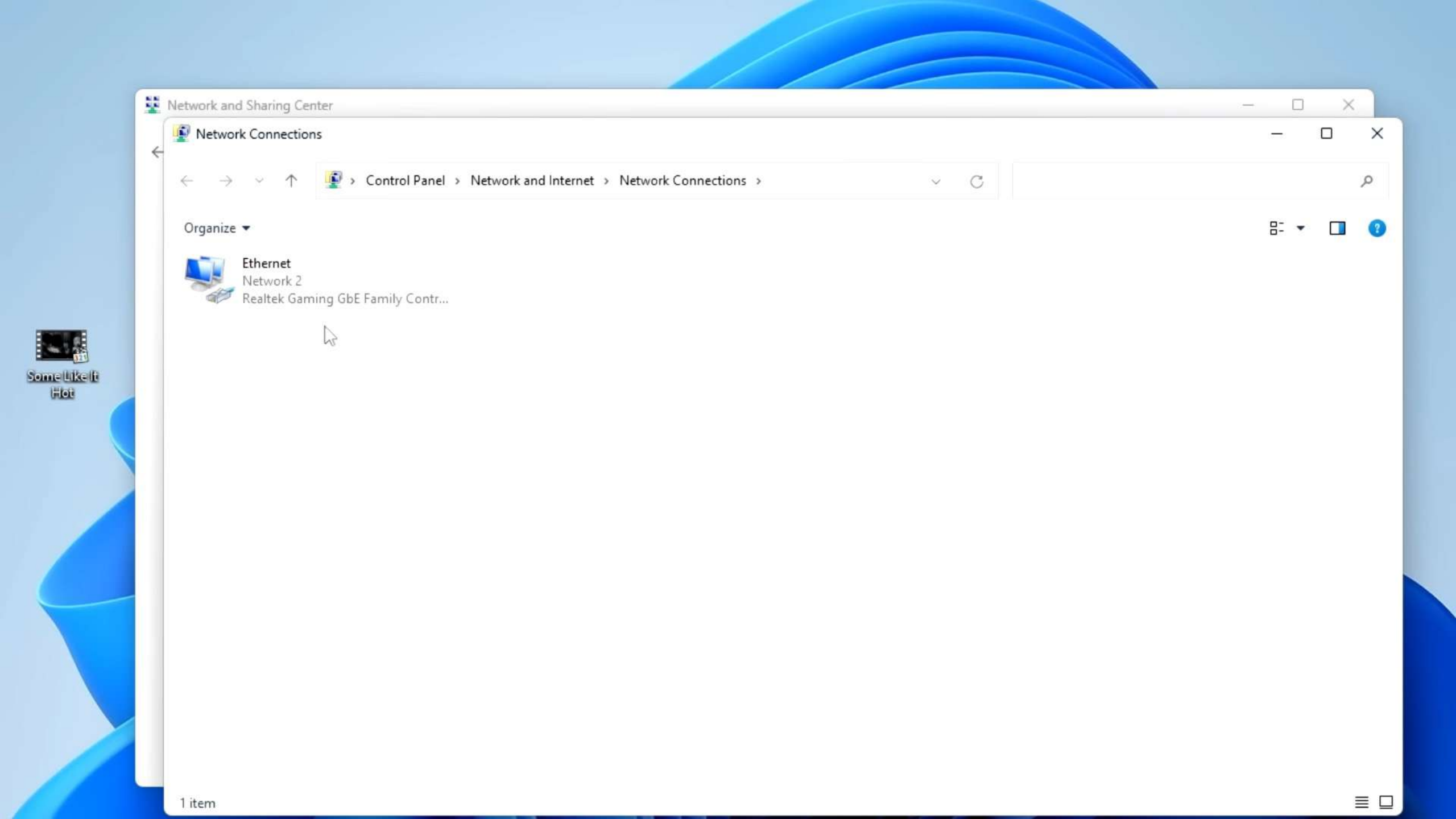
Internet Op

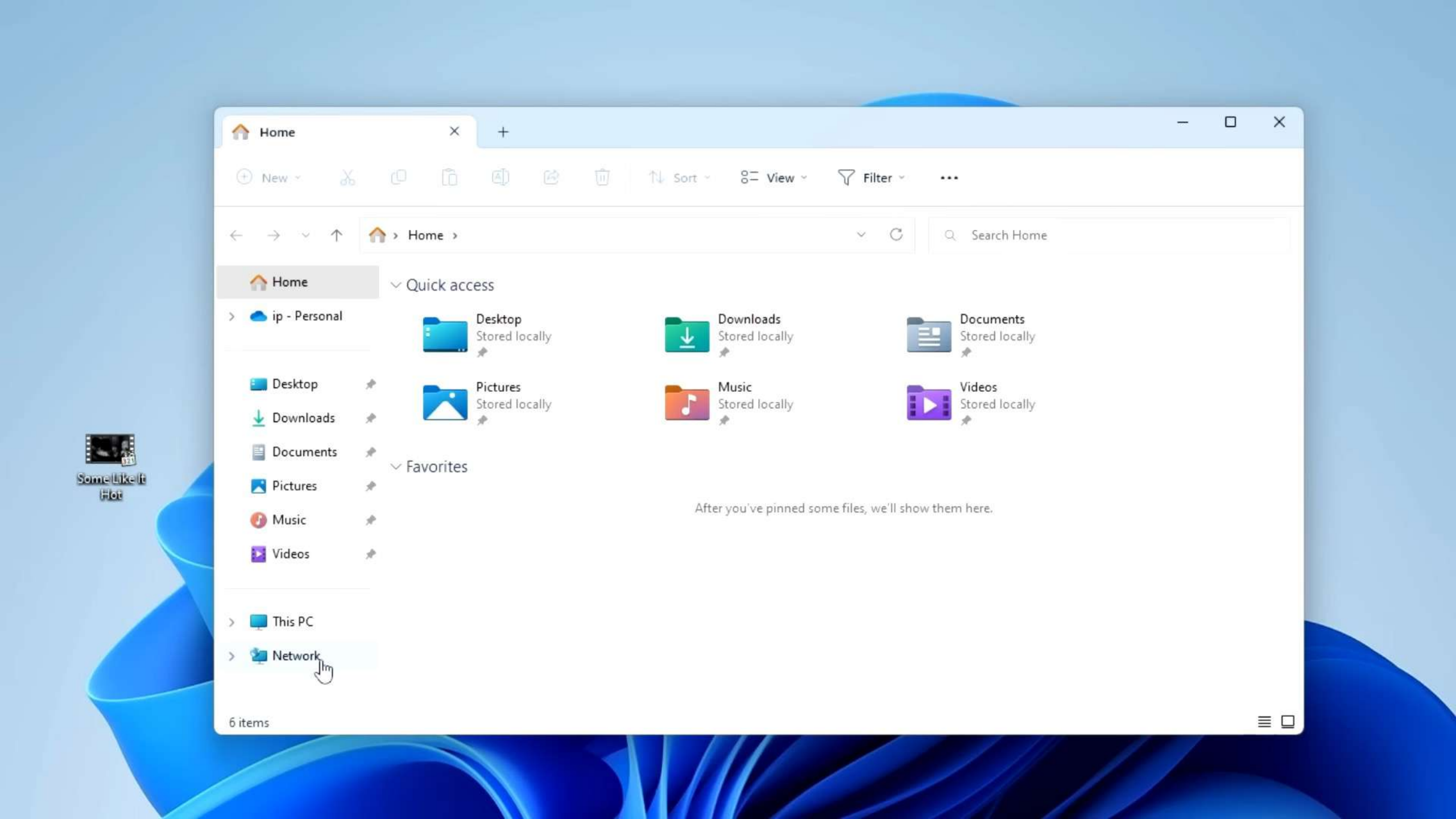
Connect to the

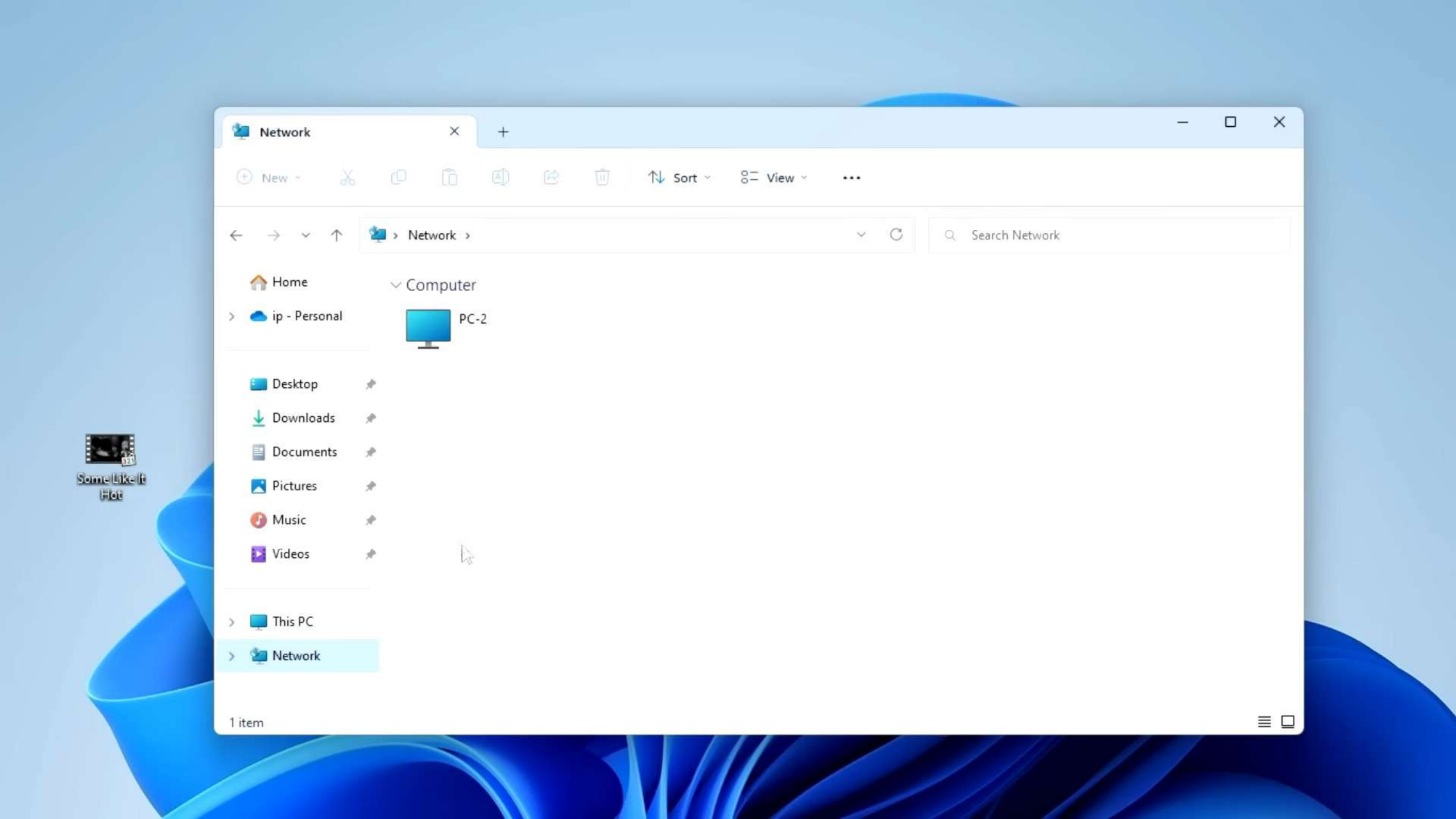
Delete browsing

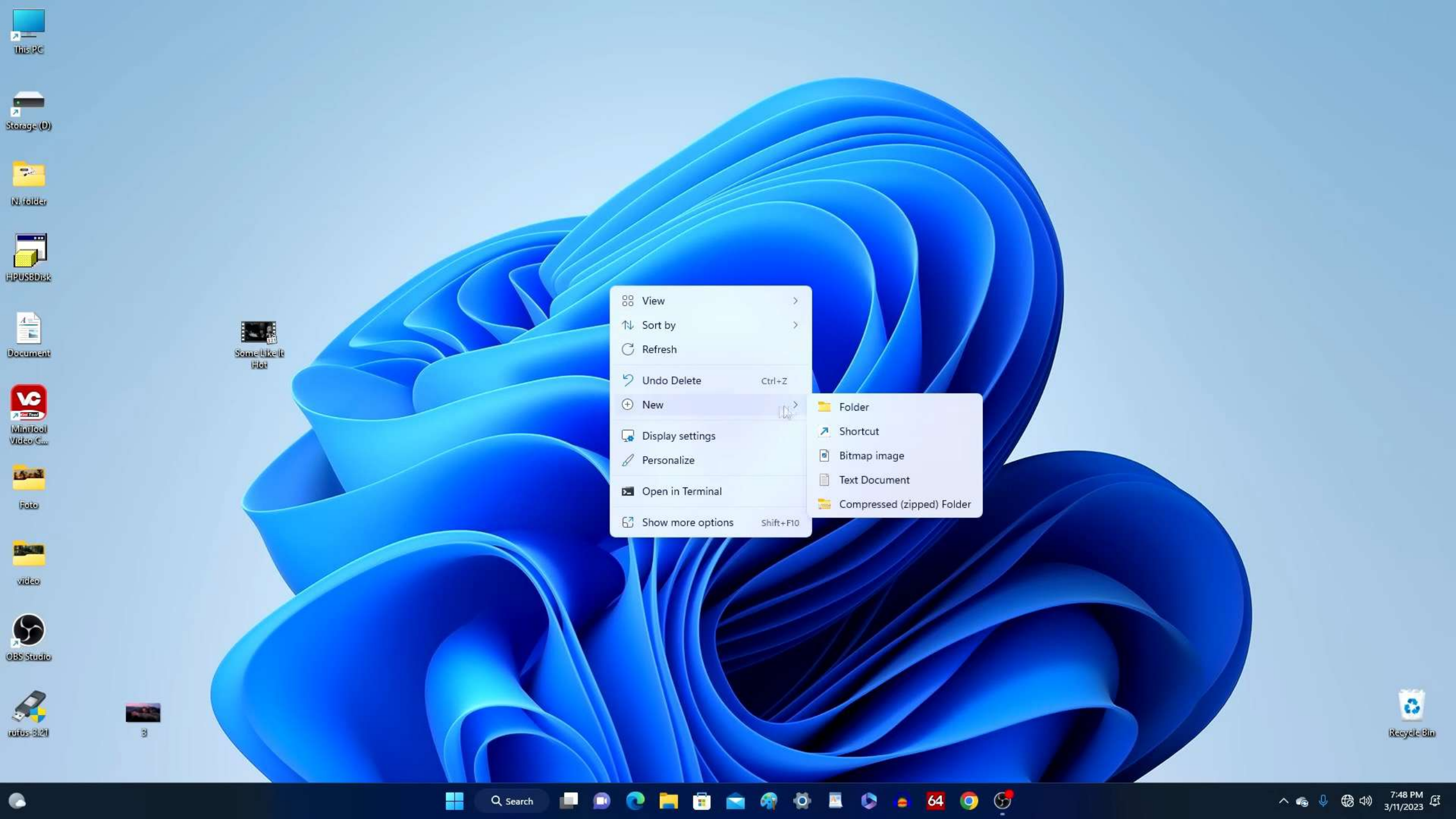
Manage browser add-ons

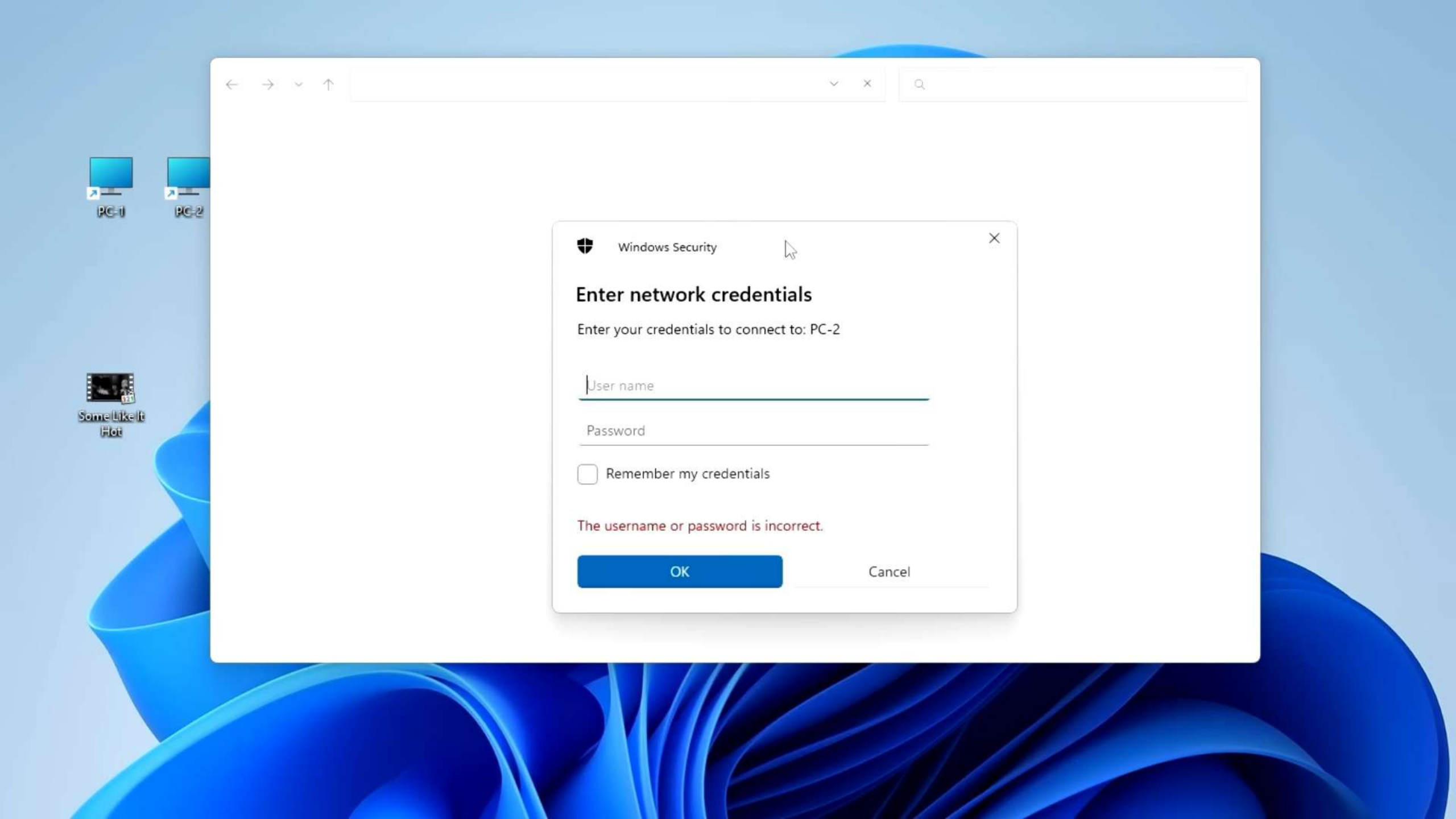
Network and Sharing Center
Check network status, change network settings and set preferences for sharing files and printers.

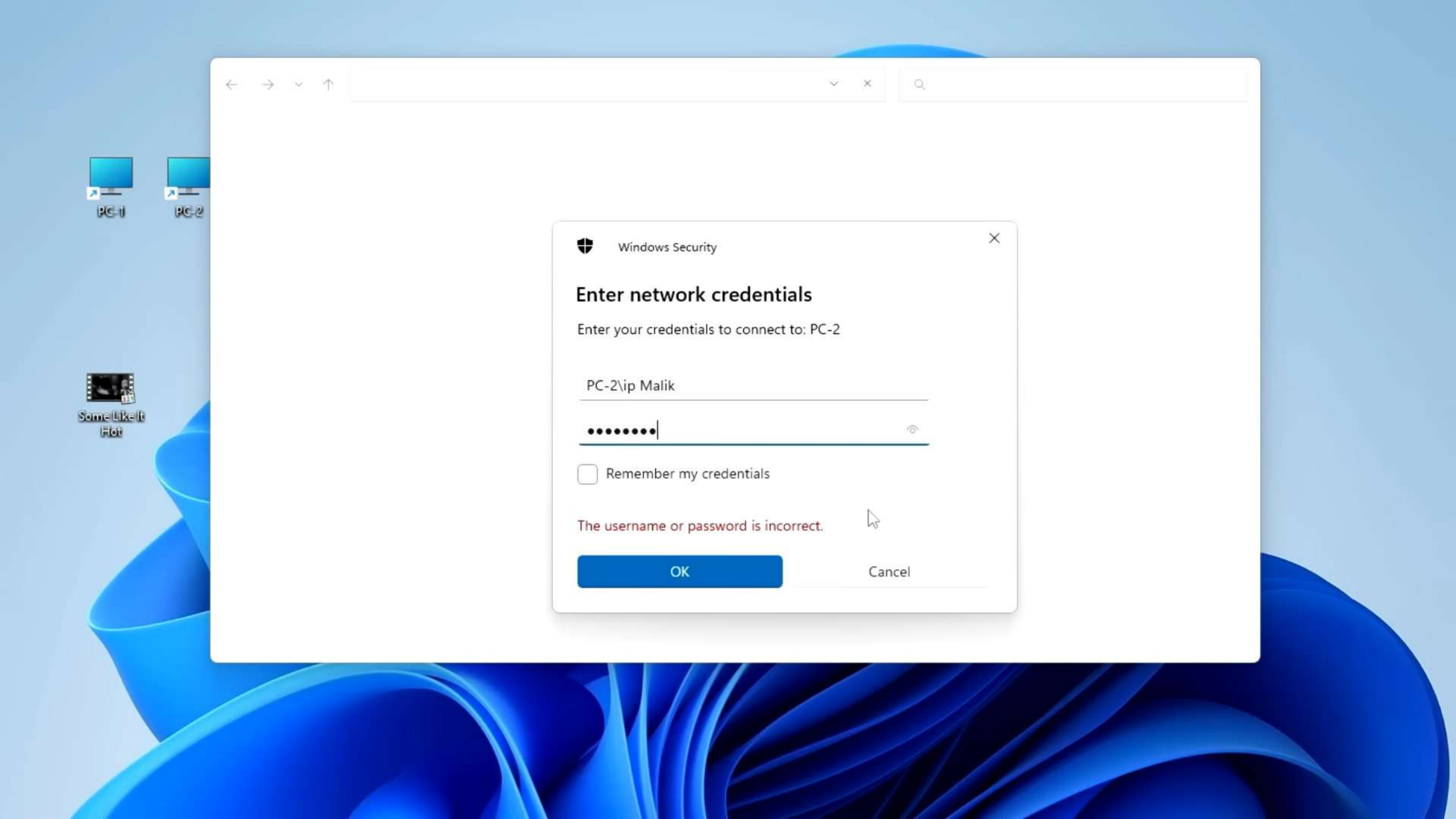

Network and Sharing Center
Network Connections
Control Panel › Network and Internet › Network Connections ›
Organize
Ethernet
Network 2
Realtek Gaming GbE Family Contr...
Some Like It Hot
1 item

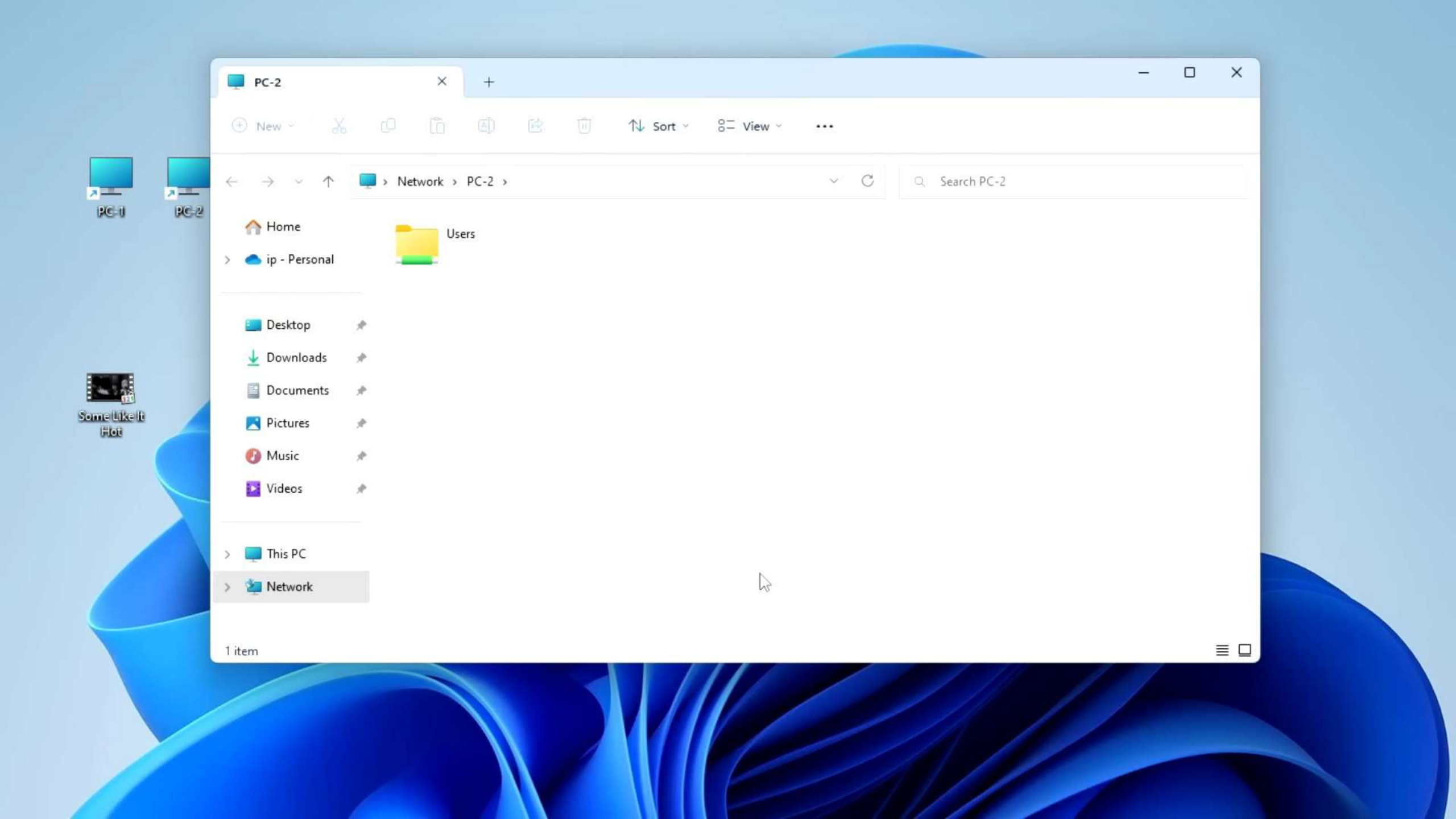

Some Like It Hot
Home
New
Sort
View
Filter
Home
Search Home
Home
ip - Personal
Desktop
Downloads
Documents
Pictures
Music
Videos
This PC
Network
Quick access
Desktop
Stored locally
Downloads
Stored locally
Documents
Stored locally
Pictures
Stored locally
Music
Stored locally
Videos
Stored locally
Favorites
After you've pinned some files, we'll show them here.
6 items


Network
New
Sort
View
Network
Search Network
Home
ip - Personal
Computer
PC-2
Desktop
Downloads
Documents
Pictures
Music
Videos
This PC
Network
1 item
Some Like It Hot


This PC
Storage (D)
N. folder
HPUSBDisk
Document
MiniTool Video C...
Foto
video
OBS Studio
rufus-3.21
3
Some Like It Hot
Recycle Bin
View
Sort by
Refresh
Undo Delete Ctrl+Z
New
Display settings
Personalize
Open in Terminal
Show more options Shift+F10
Folder
Shortcut
Bitmap image
Text Document
Compressed (zipped) Folder
Search
7:48 PM
3/11/2023

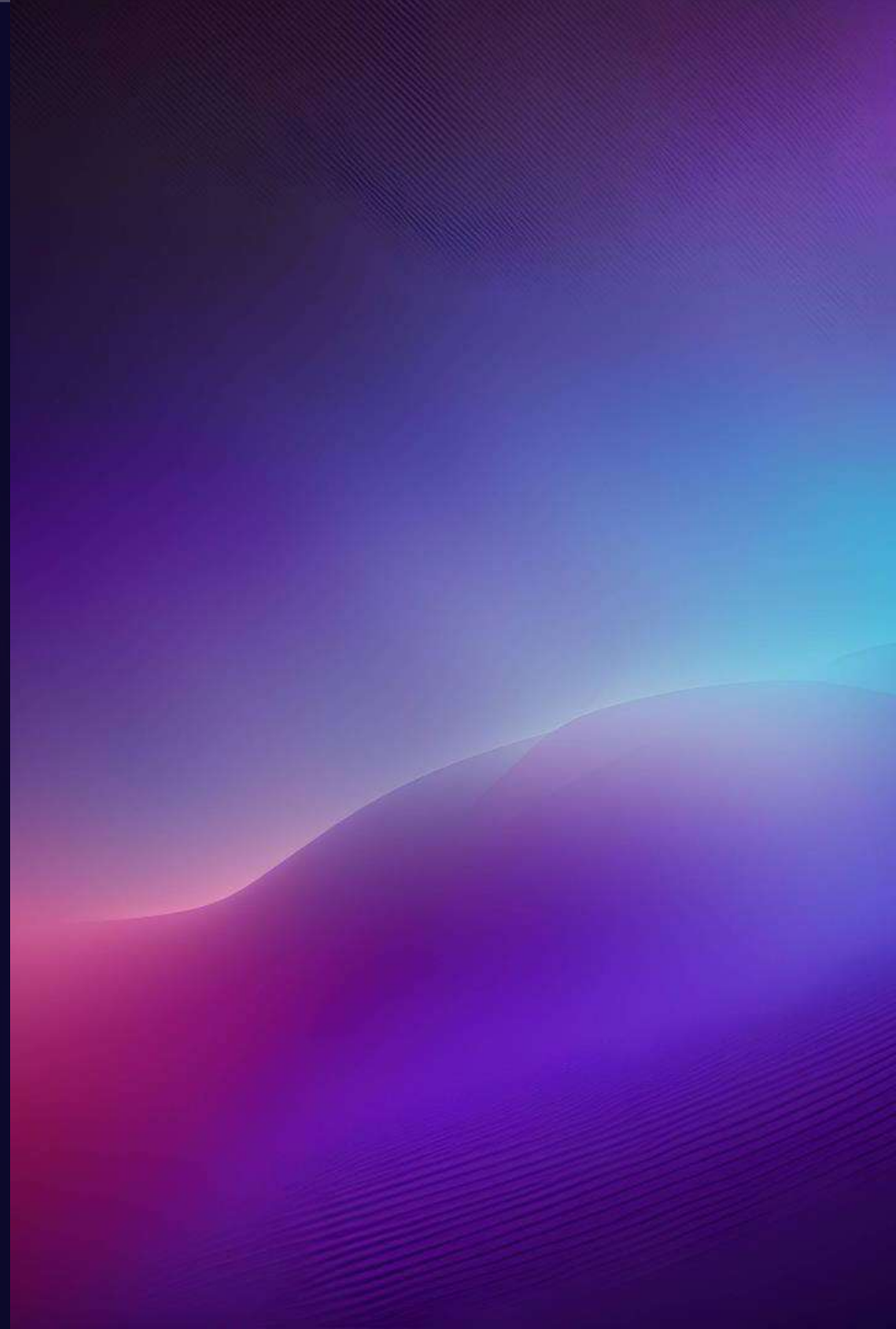

PC-1
PC-2
Some Like It Hot
Windows Security
Enter network credentials
Enter your credentials to connect to: PC-2
User name
Password
Remember my credentials
The username or password is incorrect.
OK
Cancel


PC-1
PC-2
Some Like It Hot
Windows Security
Enter network credentials
Enter your credentials to connect to: PC-2
PC-2\ip Malik
Remember my credentials
The username or password is incorrect.
OK
Cancel


PC-1
PC-2
Some Like It Hot
PC-2
New
Sort
View
Network › PC-2 ›
Search PC-2
Home
ip - Personal
Desktop
Downloads
Documents
Pictures
Music
Videos
This PC
Network
Users
1 item

Conclusion and next steps

Congratulations! You're now equipped with the knowledge to create your own LAN. Explore further networking technologies like switches and routers to expand your network capabilities.



THANK YOU