4--TETHERING FROM AN ANDROID CELL PHONE VIA A USB CABLE TO A "WINDOWS.." COMPUTER

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http://aztcs.apcug.org

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"Meeting Notes"

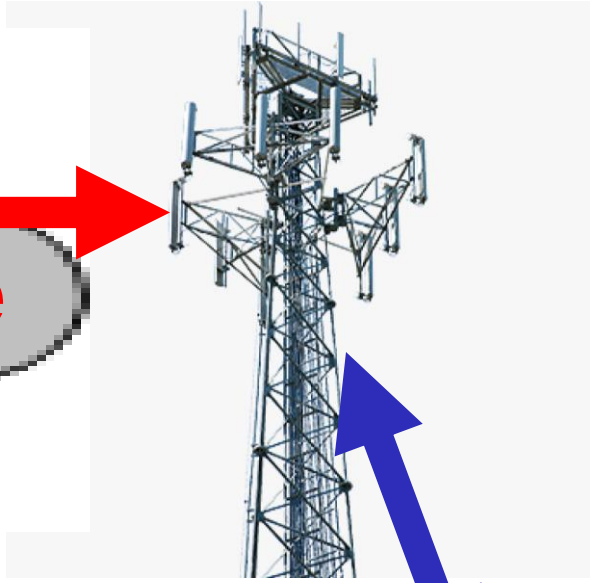
SUMMARY

You can use your Android cell phone and a "cell phone to USB" cable to provide an Internet connection for a "Windows.." computer.

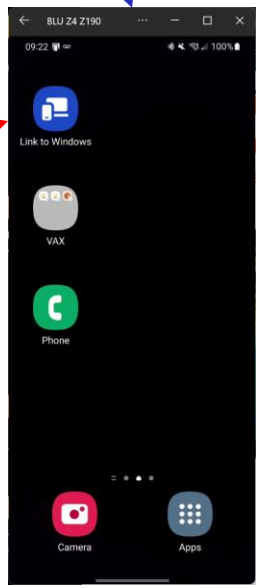
TOPICS

- Advantage of using USB tethering from a Android cell phone
- Big Steps (for computer experts)
- Small Steps (for the rest of us)
- Additional Advice

Internet Cloud
(= "Data Plan" in cell phone lingo)



Option 3:
Cell phone is tethered with a "cell phone to USB" cable so that a client computer, tablet, or another cell phone can access the Internet



"TETHERING" AND "HOTSPOT" FOR CELL PHONES

- Four ways to tether or create a hotspot with a cell phone:
  - Option 1: tethering using Wi-Fi
  - Option 2: tethering using a "cell phone to USB" cable
  - Option 3: tethering using Bluetooth
  - Option 4: tethering using an add-on wired Ethernet adapter

ADVANTAGE OF USING A USB TETHERING FROM A CELL PHONE

- Of the four configurations for tethering from a cell phone, only **OPTION 2: tethering a USB cable** avoids the radio-frequency collisions and interference that are sometimes encountered with Wi-Fi and Bluetooth communications.

OPTION 2 BIG STEPS

("Option 2:" = tethering using a "cell phone to USB" cable)

- BIG STEP 100:
  Connect the cell phone to the client device using a "cell phone to USB" cable
- BIG STEP 200:
  Activate "USB tether" in the "Settings" app of the cell phone

OPTION 2 BIG STEPS (continued)

- BIG STEP 300:
  In "Network Connections" or "Settings" of the client device, enable the virtual Ethernet device that the Android phone provides for the client device

BIG STEP 100 (Connect the cell phone to the client device using a "cell phone to USB" cable)

SMALL STEP 101:
Physically connect the "cell phone to USB" cable between the Internet-providing cell phone and the client computer, tablet, or the other cell phone:

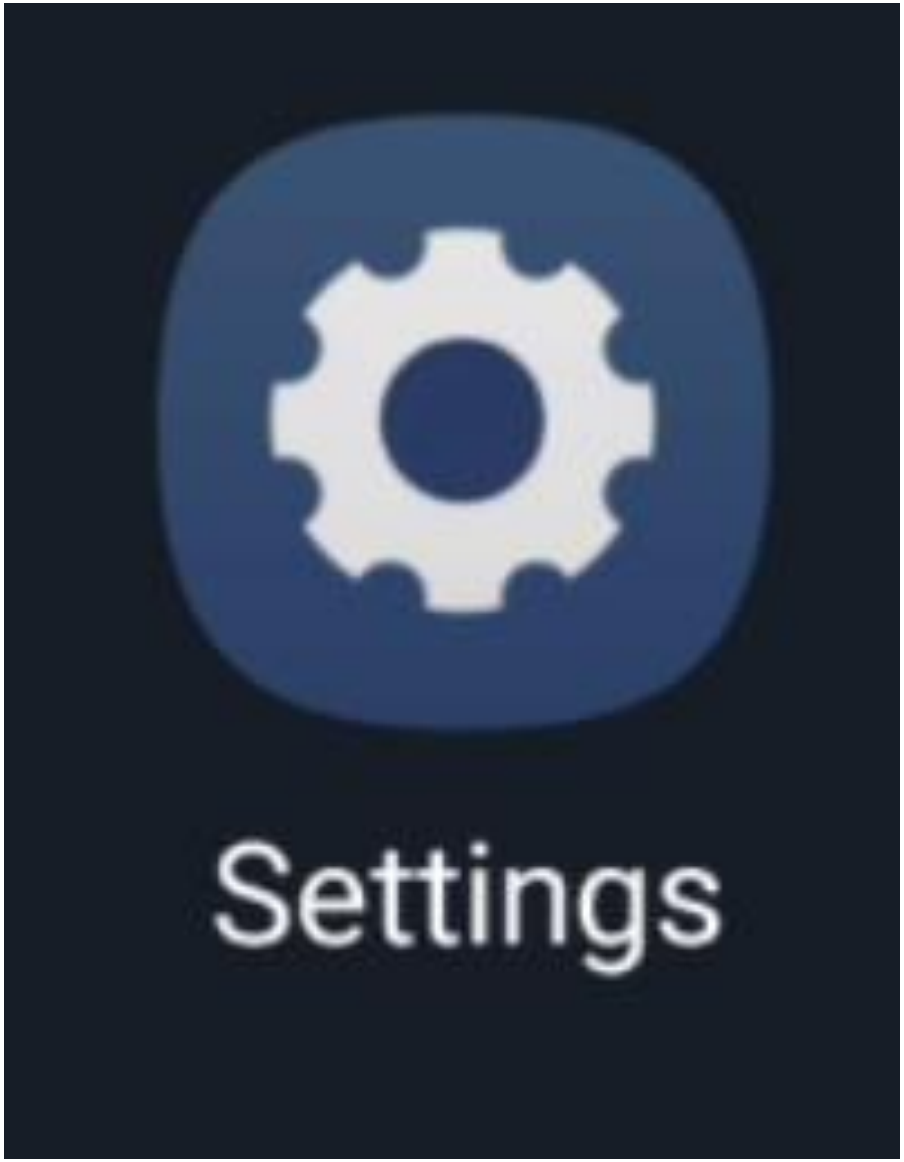
BIG STEP 100 (Connect the cell phone to the client device using a "cell phone to USB" cable)

SMALL STEP 101 (continued):

- microUSB plug to USB A plug cable for older Android cell phones
- USB-C plug to USB-C plug cable
  or
  USB-C plug to USB A plug for the newer Android cell phones

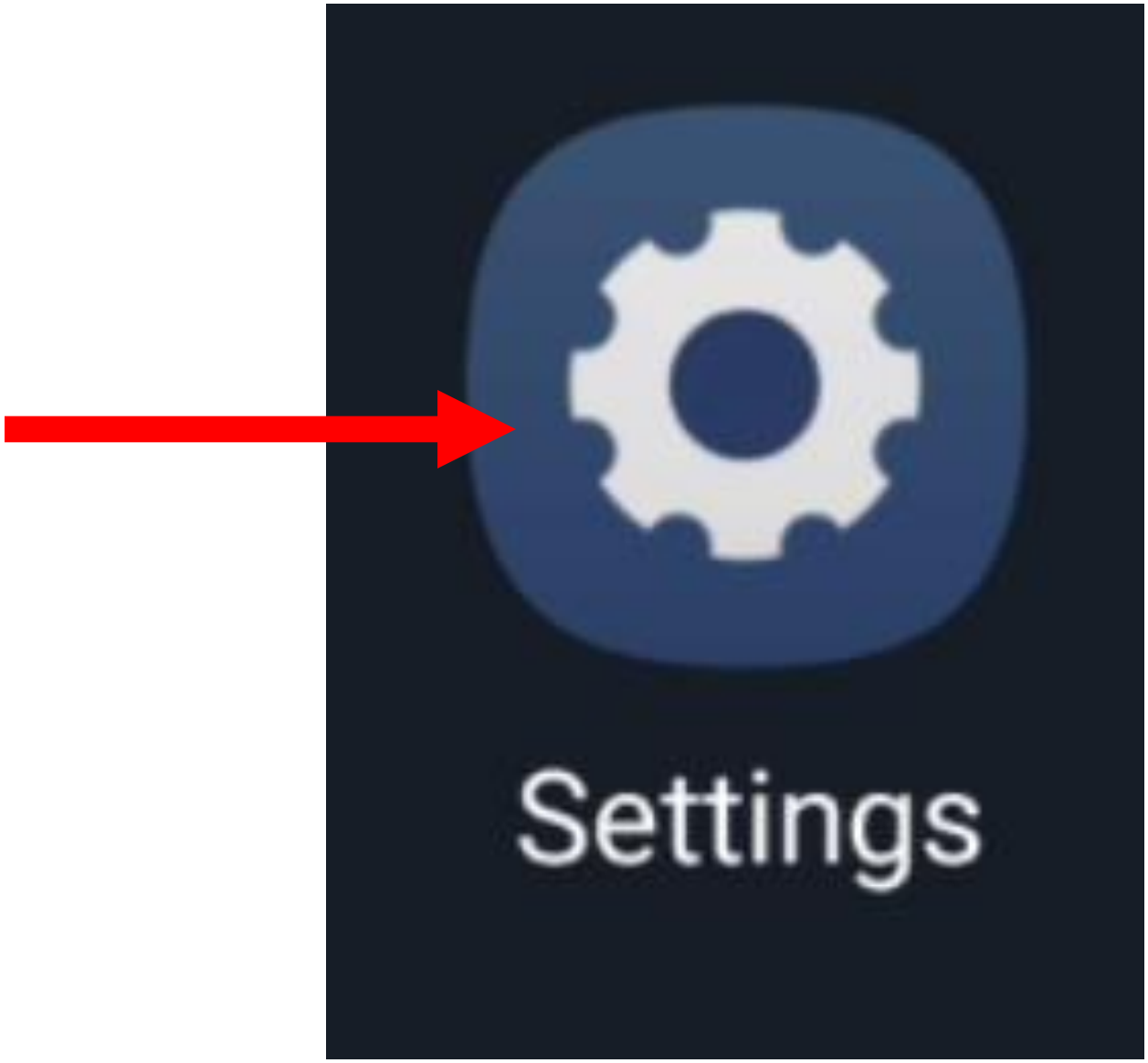
BIG STEP 200 (Activate "USB tether" in the "Settings" app of the Android cell phone)

SMALL STEP 201:
Locate the "Settings" icon in the Android cell phone:


Settings

BIG STEP 200 (Activate "USB tether" in the "Settings" app of the Android cell phone) (continued)

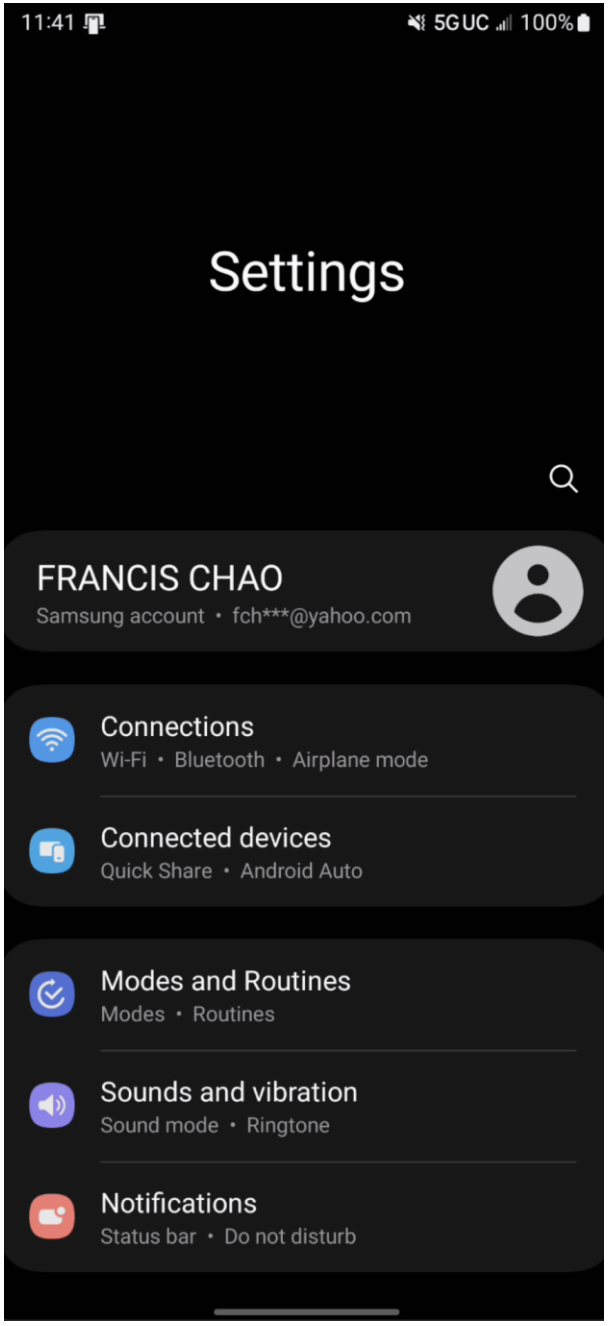
SMALL STEP 202:
Tap on the "Settings" icon:

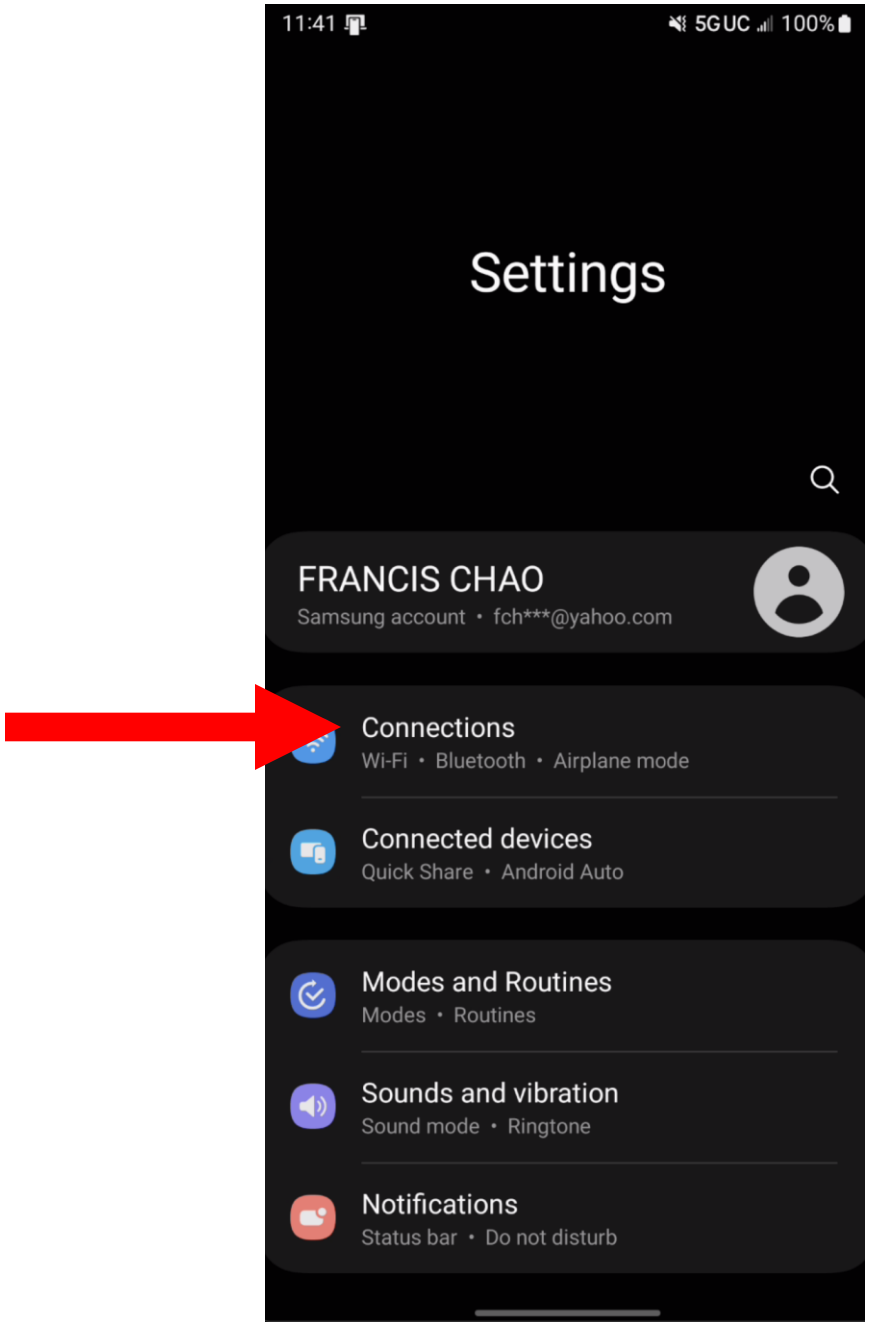

Settings

BIG STEP 200 (Activate "USB tether" in the "Settings" app of the Android cell phone) (continued)

SMALL STEP 203:

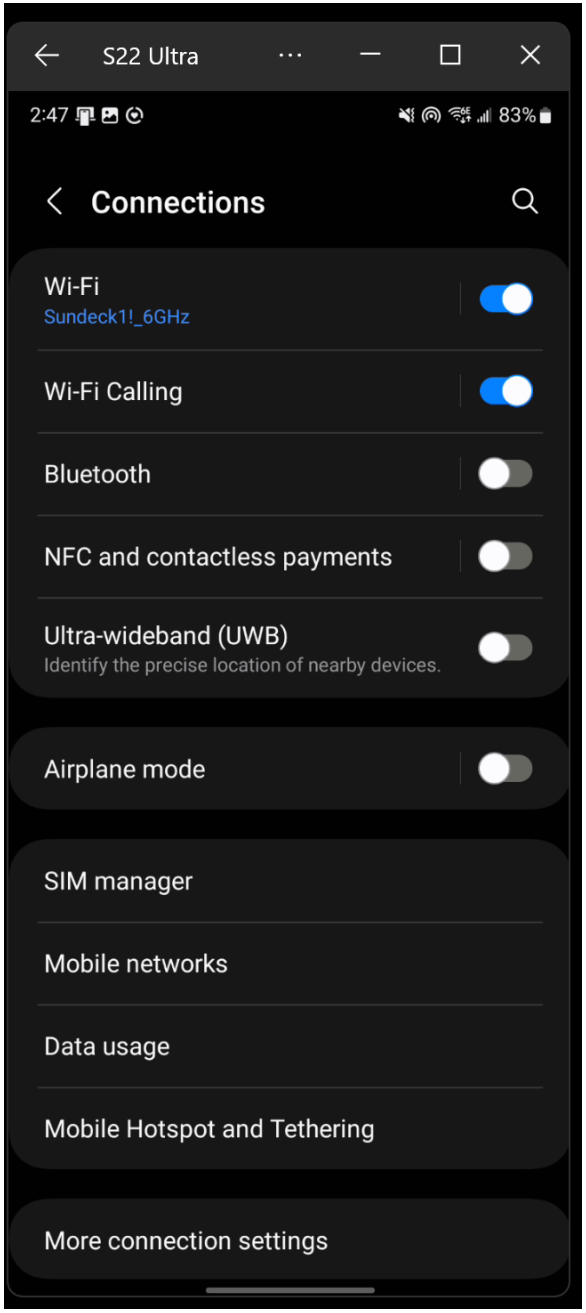
Tap on "Connections":

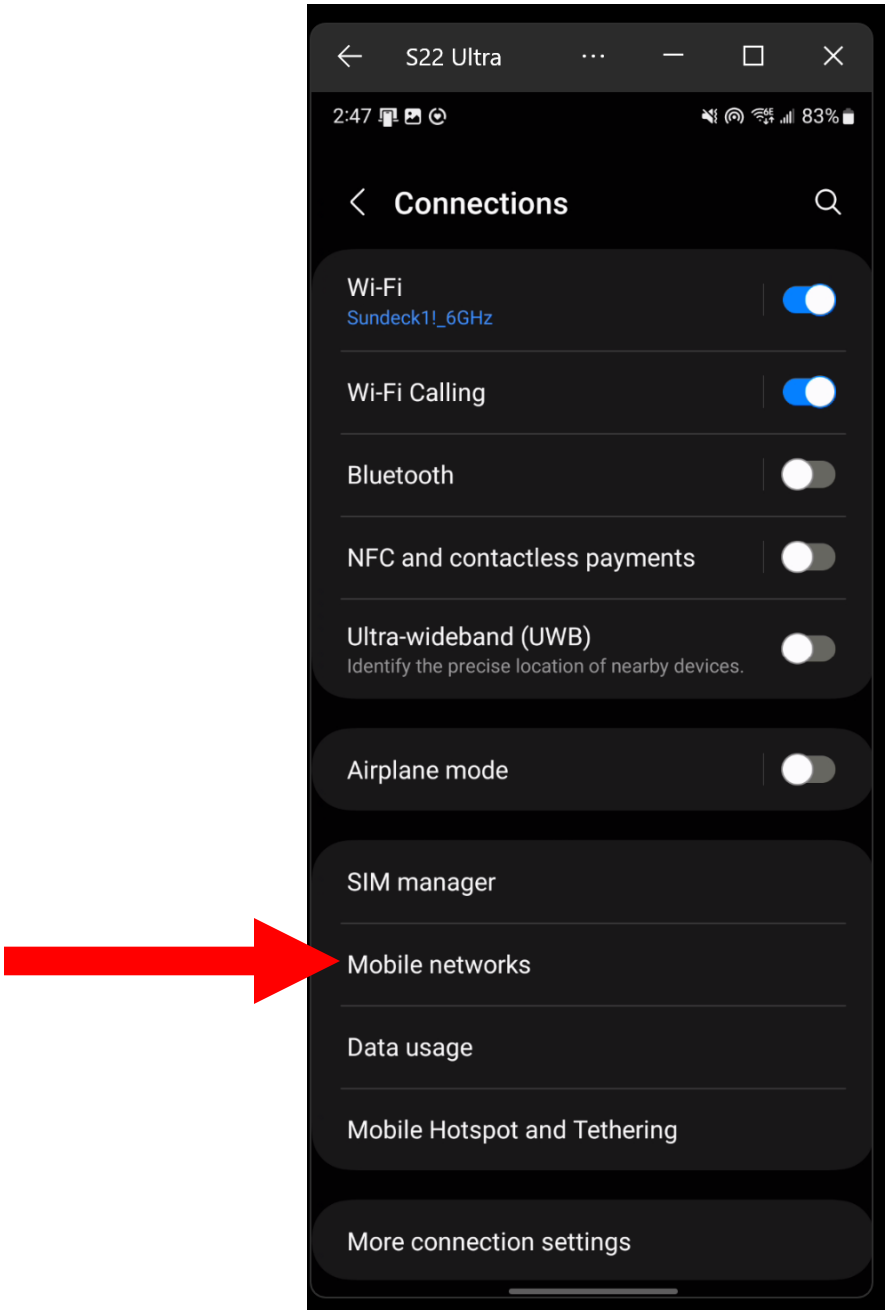

11:41
5GUC
100%
Settings
FRANCIS CHAO
Samsung account • fch***@yahoo.com
Connections
Wi-Fi • Bluetooth • Airplane mode
Connected devices
Quick Share • Android Auto
Modes and Routines
Modes • Routines
Sounds and vibration
Sound mode • Ringtone
Notifications
Status bar • Do not disturb


11:41
5GUC
100%
Settings
FRANCIS CHAO
Samsung account • fch***@yahoo.com
Connections
Wi-Fi • Bluetooth • Airplane mode
Connected devices
Quick Share • Android Auto
Modes and Routines
Modes • Routines
Sounds and vibration
Sound mode • Ringtone
Notifications
Status bar • Do not disturb

BIG STEP 200 (Activate "USB tether" in the "Settings" app of the Android cell phone) (continued)

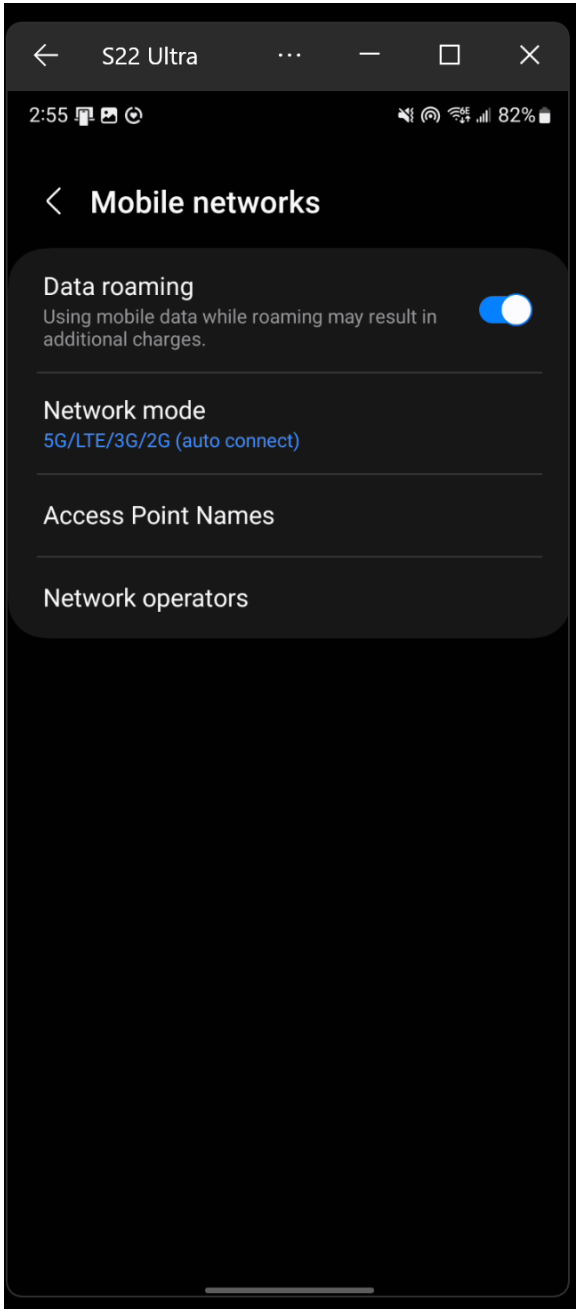
SMALL STEP 204:
Tap on "Mobile networks":

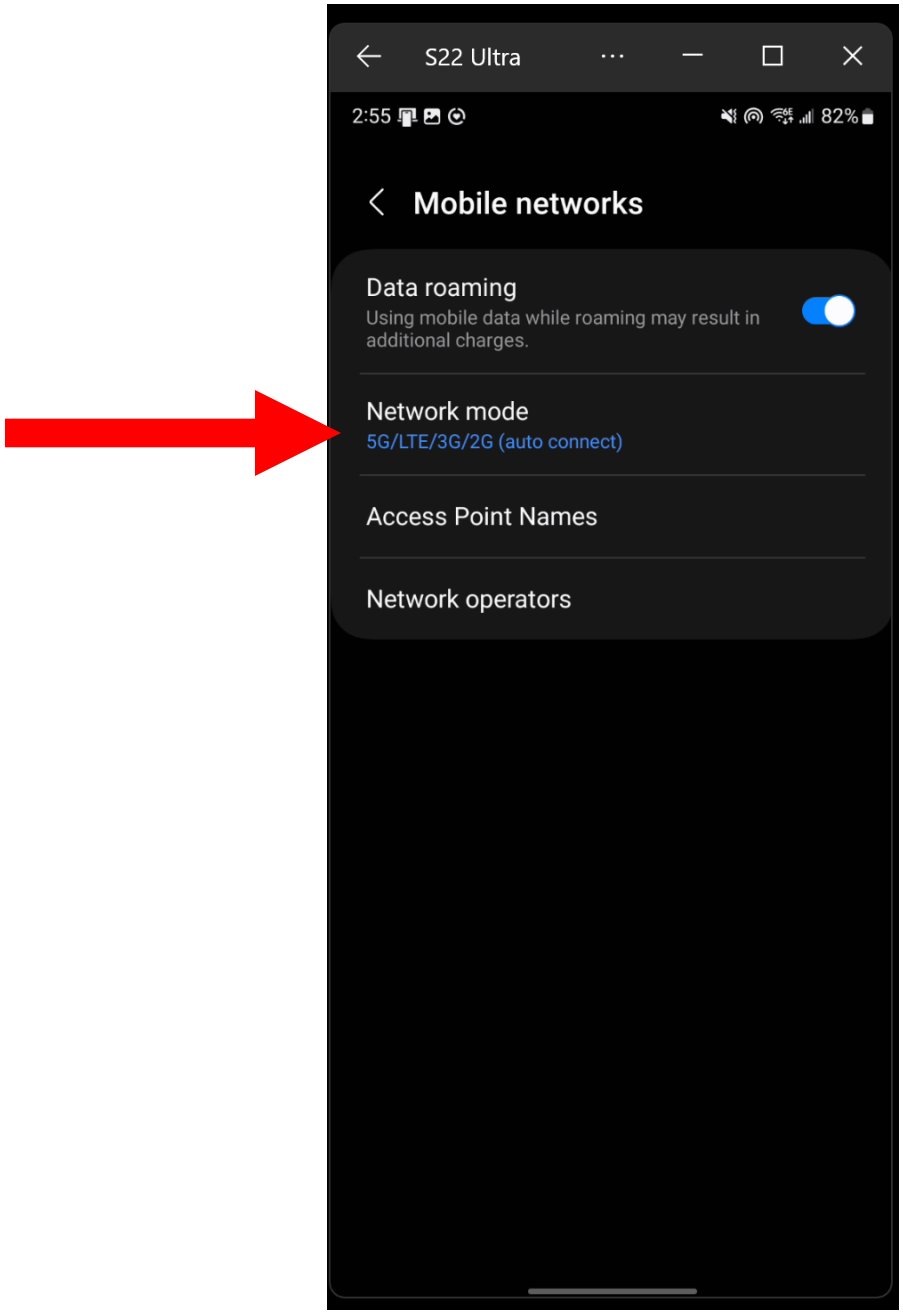

S22 Ultra
2:47
83%
Connections
Wi-Fi
Sundeck1!_6GHz
Wi-Fi Calling
Bluetooth
NFC and contactless payments
Ultra-wideband (UWB)
Identify the precise location of nearby devices.
Airplane mode
SIM manager
Mobile networks
Data usage
Mobile Hotspot and Tethering
More connection settings


S22 Ultra
2:47
83%
Connections
Wi-Fi
Sundeck1!_6GHz
Wi-Fi Calling
Bluetooth
NFC and contactless payments
Ultra-wideband (UWB)
Identify the precise location of nearby devices.
Airplane mode
SIM manager
Mobile networks
Data usage
Mobile Hotspot and Tethering
More connection settings

BIG STEP 200 (Activate "USB tether" in the "Settings" app of the Android cell phone) (continued)

SMALL STEP 205:
Tap on "Network mode".

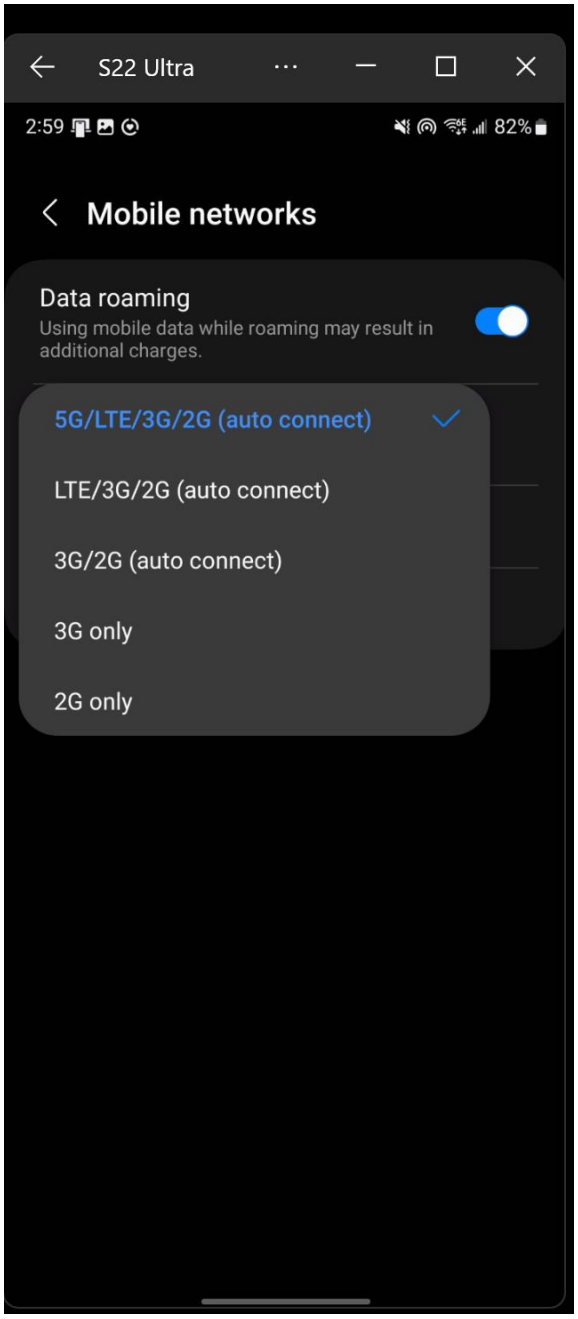

S22 Ultra
2:55
82%
Mobile networks
Data roaming
Using mobile data while roaming may result in additional charges.
Network mode
5G/LTE/3G/2G (auto connect)
Access Point Names
Network operators

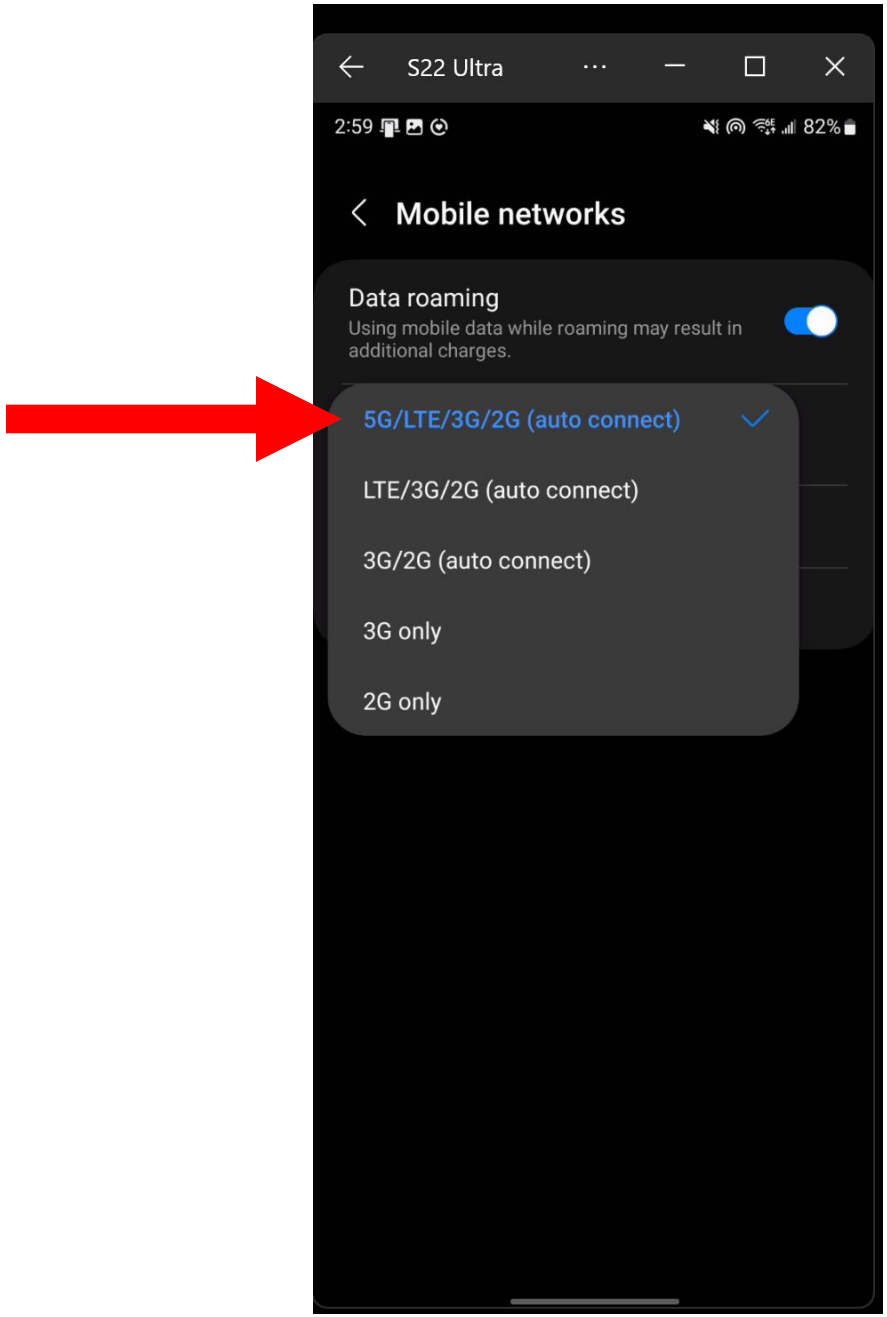

S22 Ultra
2:55
82%
Mobile networks
Data roaming
Using mobile data while roaming may result in additional charges.
Network mode
5G/LTE/3G/2G (auto connect)
Access Point Names
Network operators

BIG STEP 200 (Activate "USB tether" in the "Settings" app of the Android cell phone) (continued)

SMALL STEP 206:

Tap on the highest level of "Network mode" that your cell phone is capable of communicating at:

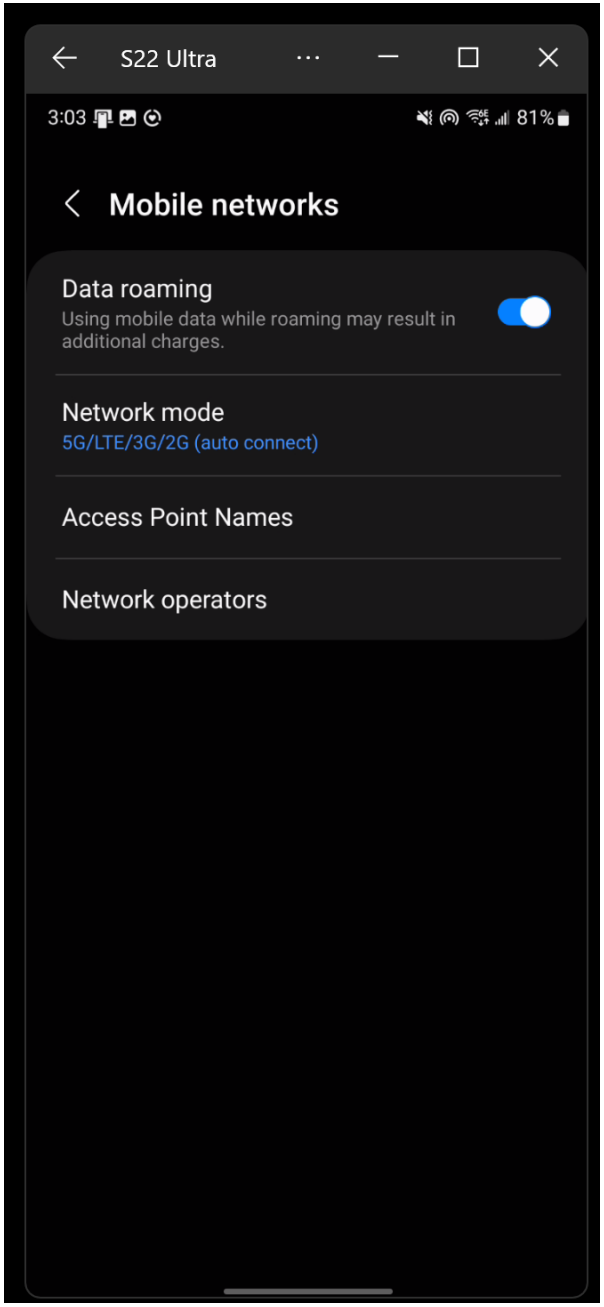

S22 Ultra
2:59
82%
Mobile networks
Data roaming
Using mobile data while roaming may result in additional charges.
5G/LTE/3G/2G (auto connect)
LTE/3G/2G (auto connect)
3G/2G (auto connect)
3G only
2G only

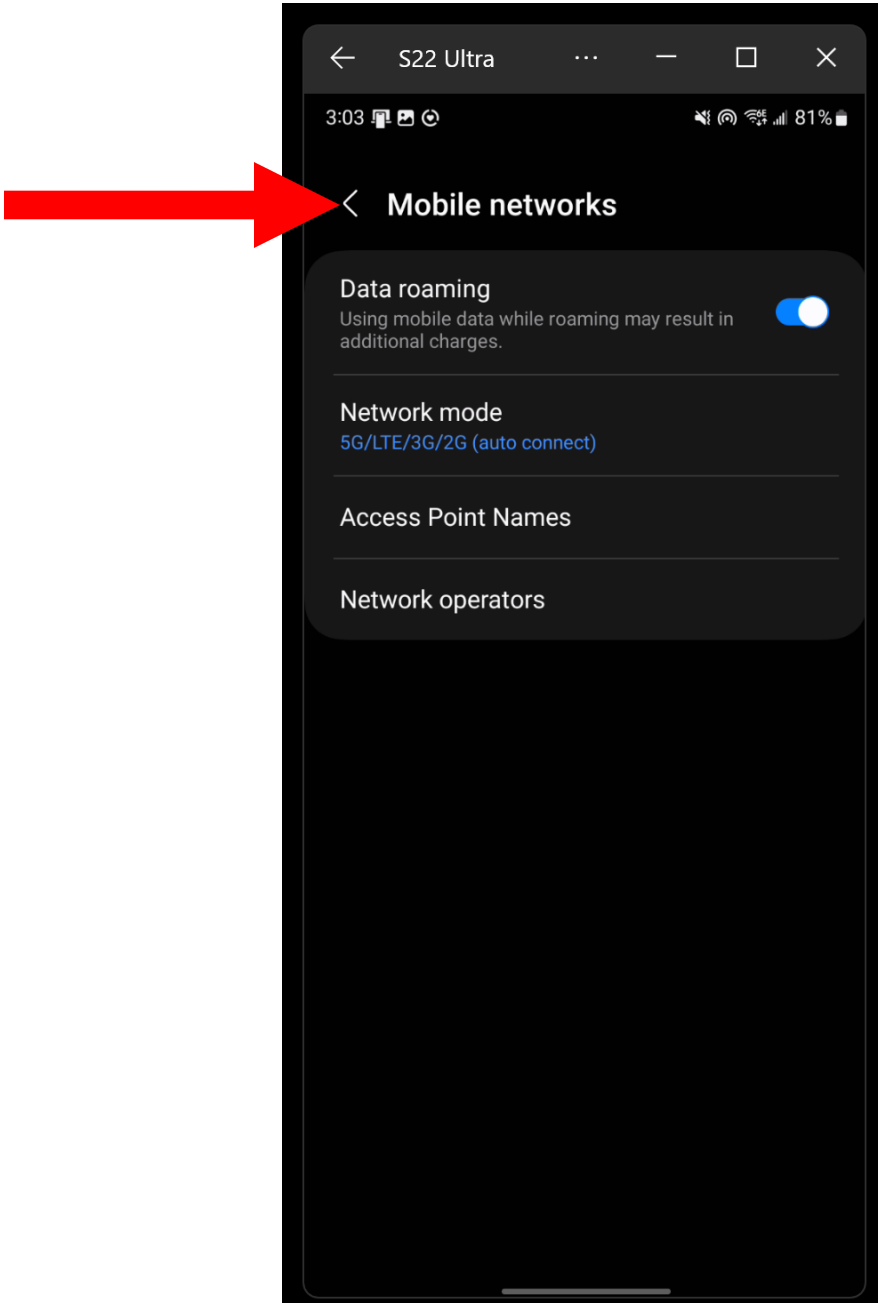

S22 Ultra
2:59
82%
Mobile networks
Data roaming
Using mobile data while roaming may result in additional charges.
5G/LTE/3G/2G (auto connect)
LTE/3G/2G (auto connect)
3G/2G (auto connect)
3G only
2G only

BIG STEP 200 (Activate "USB tether" in the "Settings" app of the Android cell phone) (continued)

SMALL STEP 207:

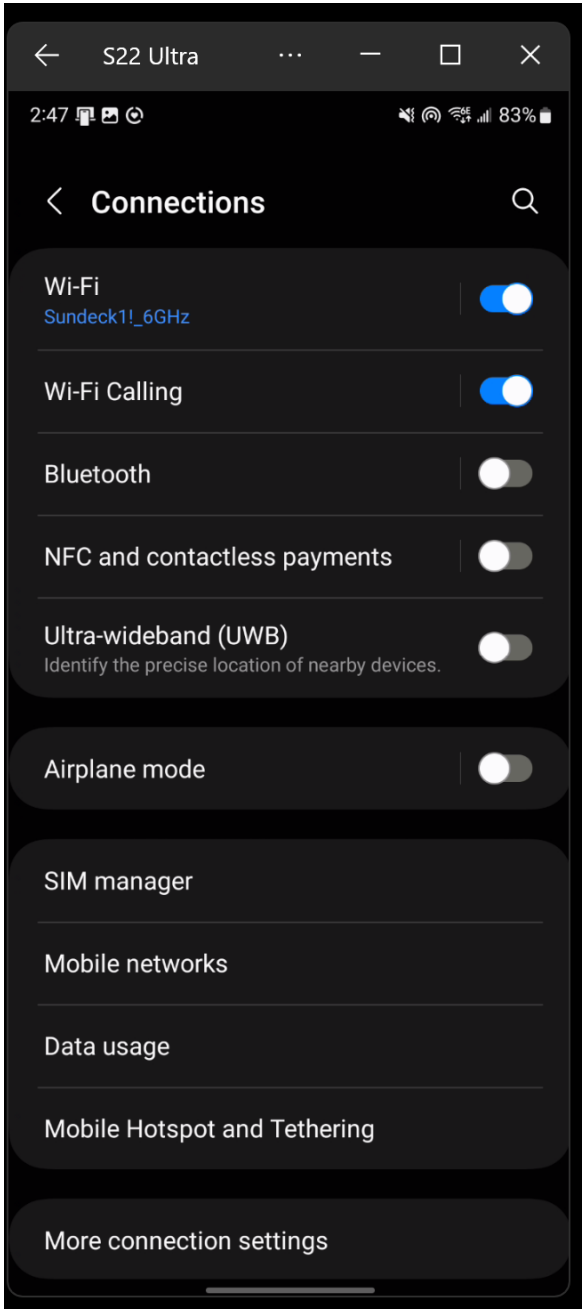
Tap on the "<" to the left of "Mobile networks"

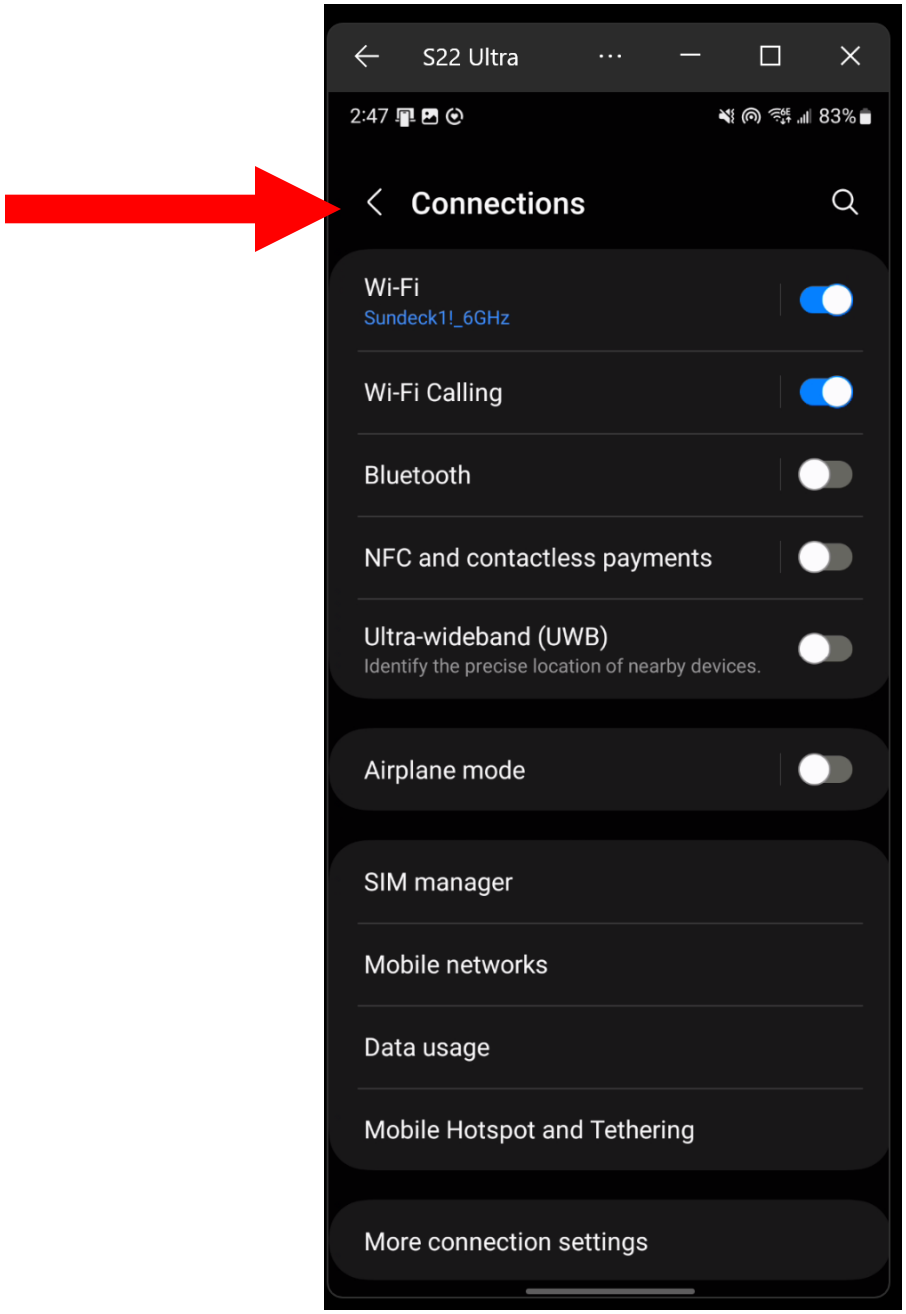

S22 Ultra
3:03
81%
Mobile networks
Data roaming
Using mobile data while roaming may result in additional charges.
Network mode
5G/LTE/3G/2G (auto connect)
Access Point Names
Network operators


S22 Ultra
3:03
81%
Mobile networks
Data roaming
Using mobile data while roaming may result in additional charges.
Network mode
5G/LTE/3G/2G (auto connect)
Access Point Names
Network operators

BIG STEP 200 (Activate "USB tether" in the "Settings" app of the Android cell phone) (continued)

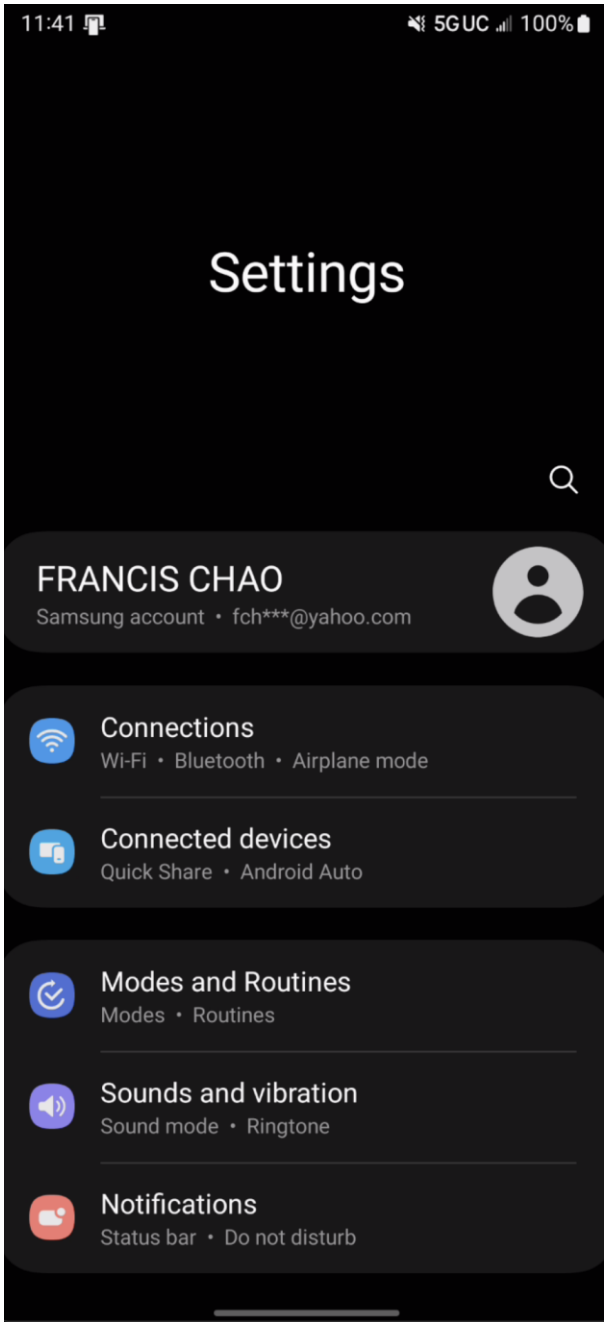
SMALL STEP 208:
Tap on the "<" to the left of "Connections"

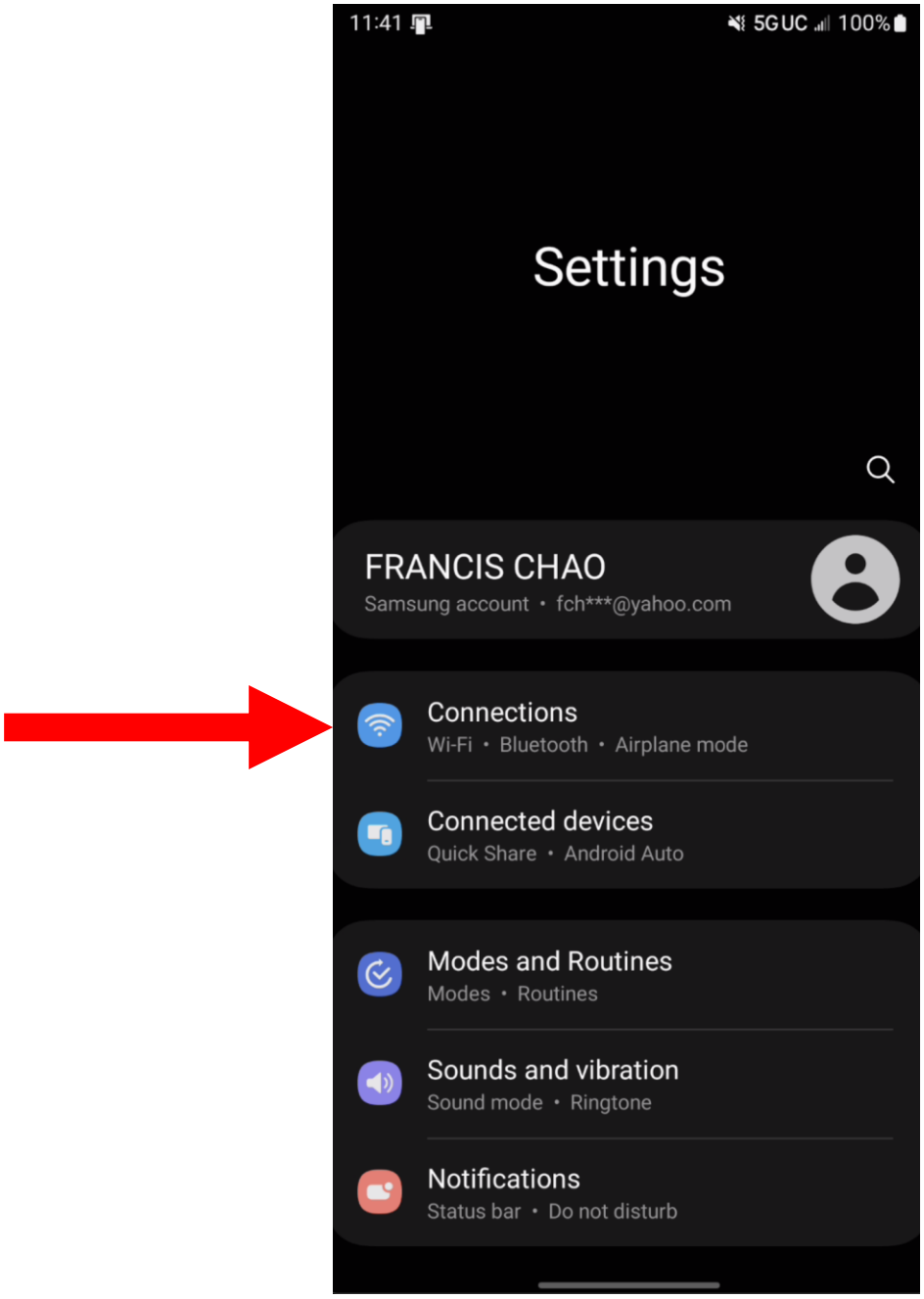

S22 Ultra
2:47
83%
Connections
Wi-Fi
Sundeck1!_6GHz
Wi-Fi Calling
Bluetooth
NFC and contactless payments
Ultra-wideband (UWB)
Identify the precise location of nearby devices.
Airplane mode
SIM manager
Mobile networks
Data usage
Mobile Hotspot and Tethering
More connection settings


S22 Ultra
2:47
83%
Connections
Wi-Fi
Sundeck1!_6GHz
Wi-Fi Calling
Bluetooth
NFC and contactless payments
Ultra-wideband (UWB)
Identify the precise location of nearby devices.
Airplane mode
SIM manager
Mobile networks
Data usage
Mobile Hotspot and Tethering
More connection settings

BIG STEP 200 (Activate "USB tether" in the "Settings" app of the Android cell phone) (continued)

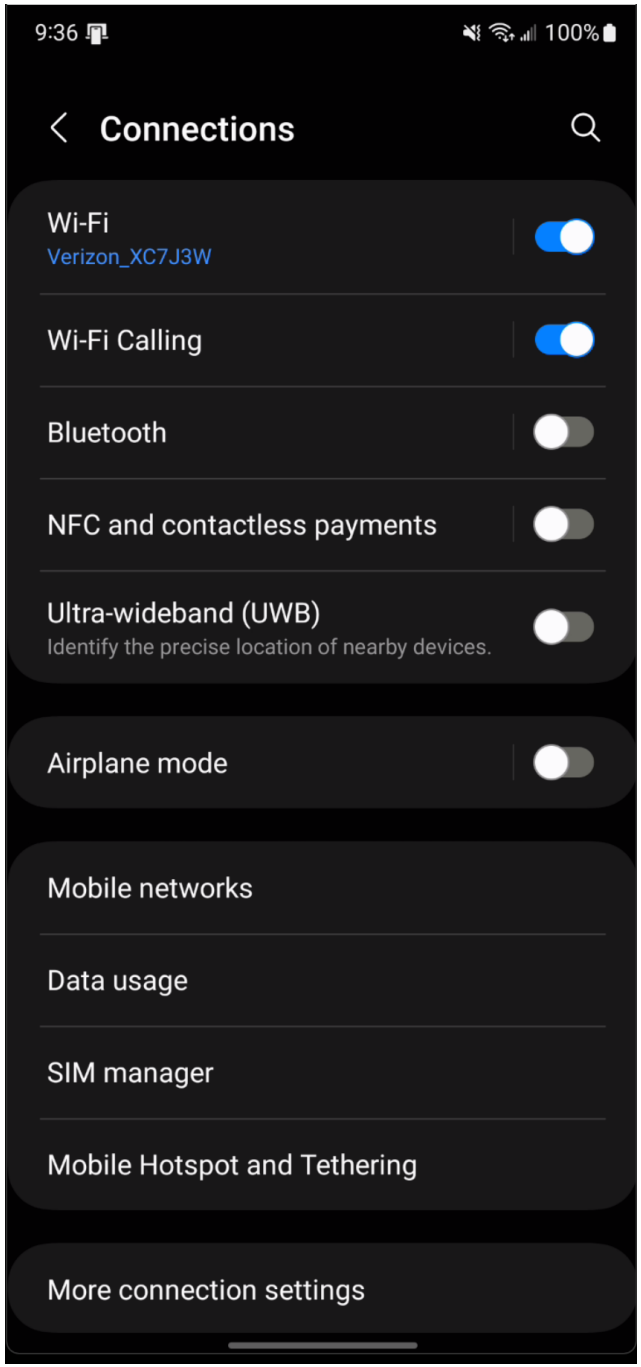
SMALL STEP 209:
You should now be back at the top-most level of the "Settings" app in the Android cell phone.
Tap on "Connections":

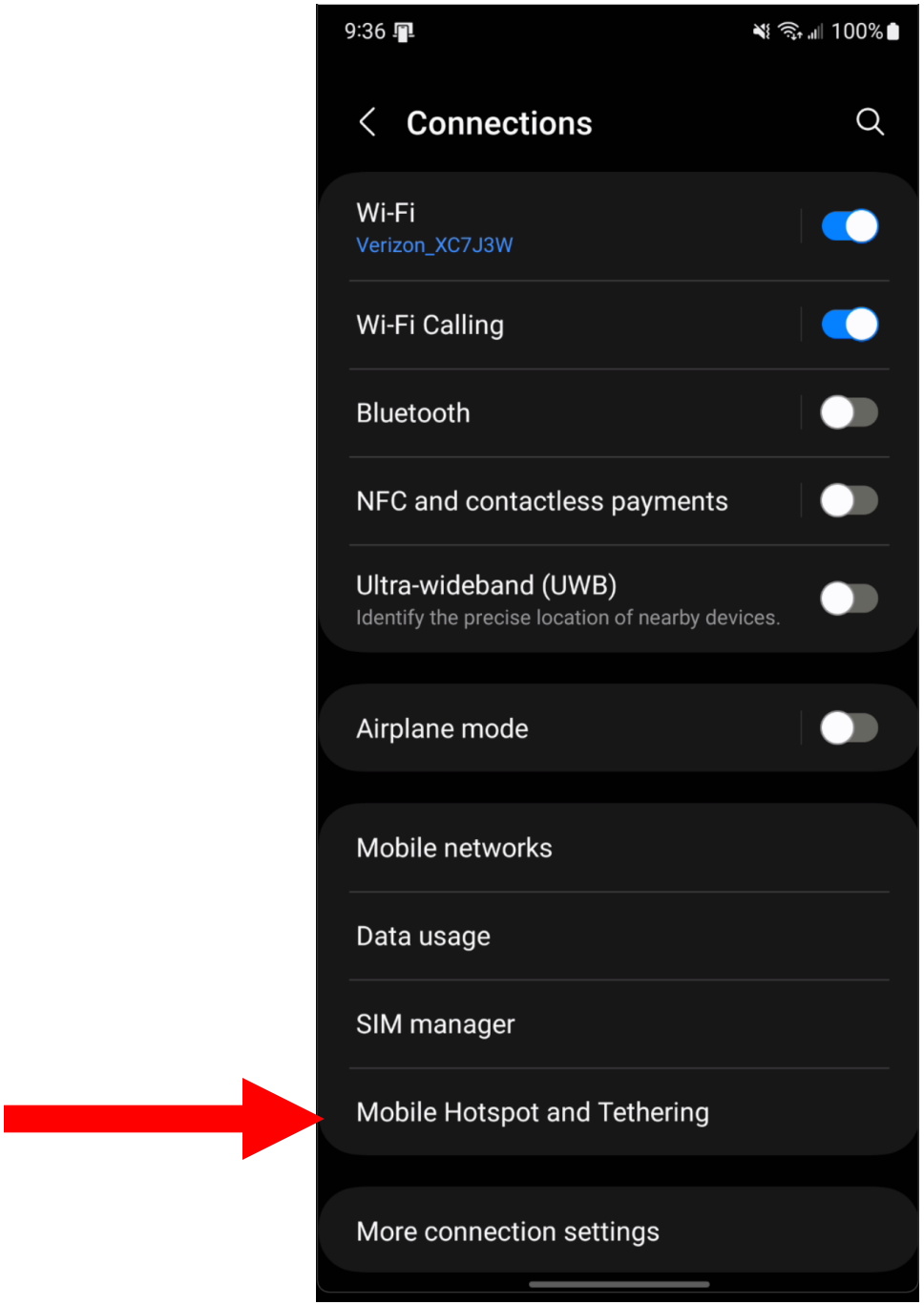

11:41
5GUC
100%
Settings
FRANCIS CHAO
Samsung account • fch***@yahoo.com
Connections
Wi-Fi • Bluetooth • Airplane mode
Connected devices
Quick Share • Android Auto
Modes and Routines
Modes • Routines
Sounds and vibration
Sound mode • Ringtone
Notifications
Status bar • Do not disturb


11:41
5GUC
100%
Settings
FRANCIS CHAO
Samsung account • fch***@yahoo.com
Connections
Wi-Fi • Bluetooth • Airplane mode
Connected devices
Quick Share • Android Auto
Modes and Routines
Modes • Routines
Sounds and vibration
Sound mode • Ringtone
Notifications
Status bar • Do not disturb

BIG STEP 200 (Activate "USB tether" in the "Settings" app of the cell phone) (continued)

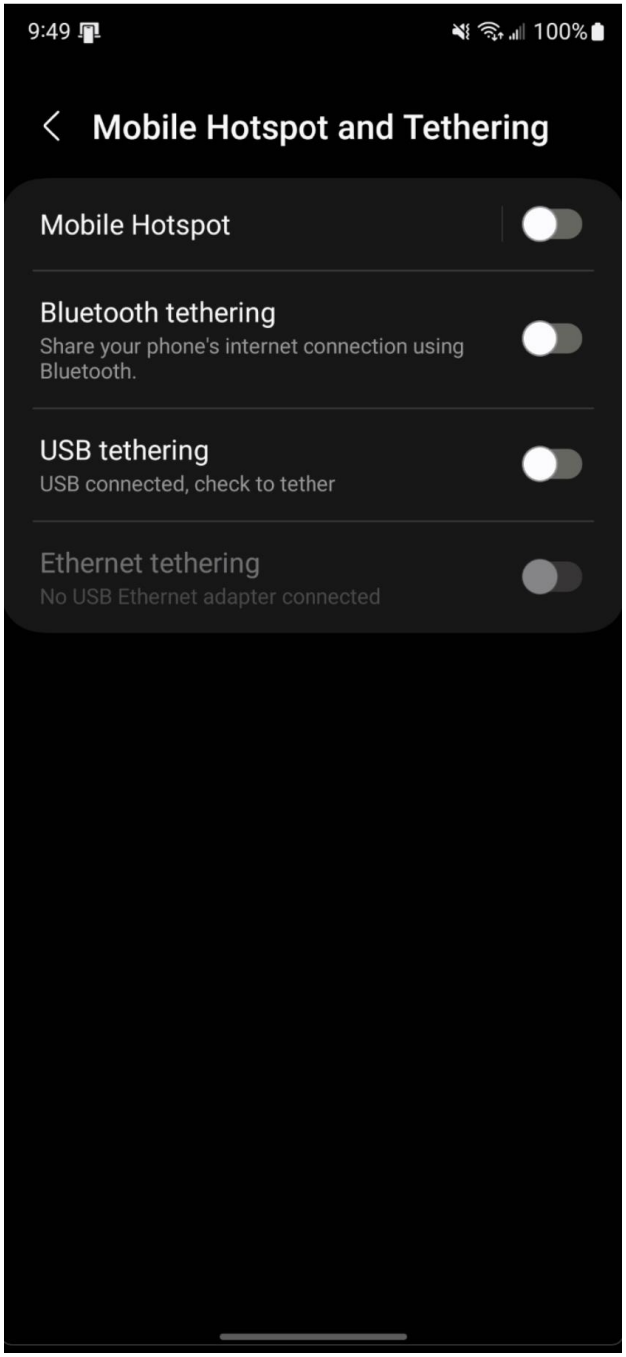
SMALL STEP 210:
Tap on "Mobile Hotspot and Tethering":

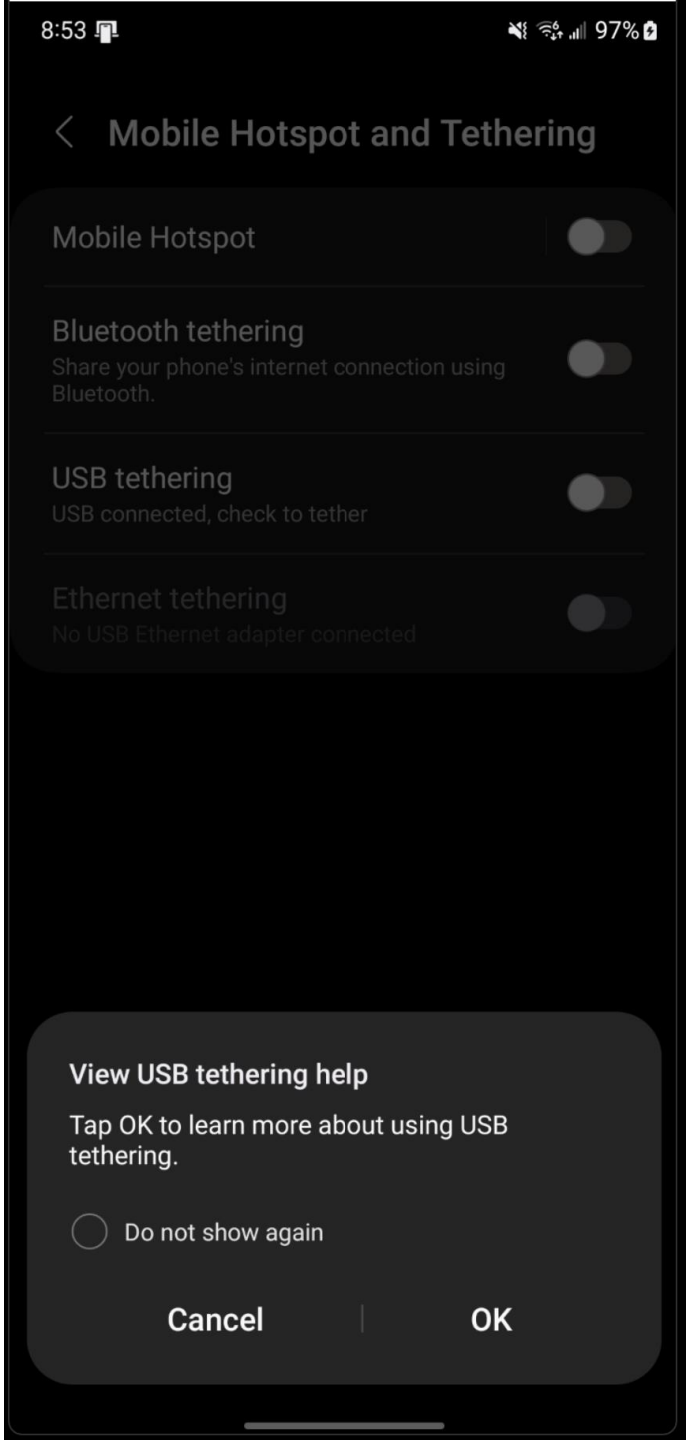

9:36
100%
Connections
Wi-Fi
Verizon_XC7J3W
Wi-Fi Calling
Bluetooth
NFC and contactless payments
Ultra-wideband (UWB)
Identify the precise location of nearby devices.
Airplane mode
Mobile networks
Data usage
SIM manager
Mobile Hotspot and Tethering
More connection settings

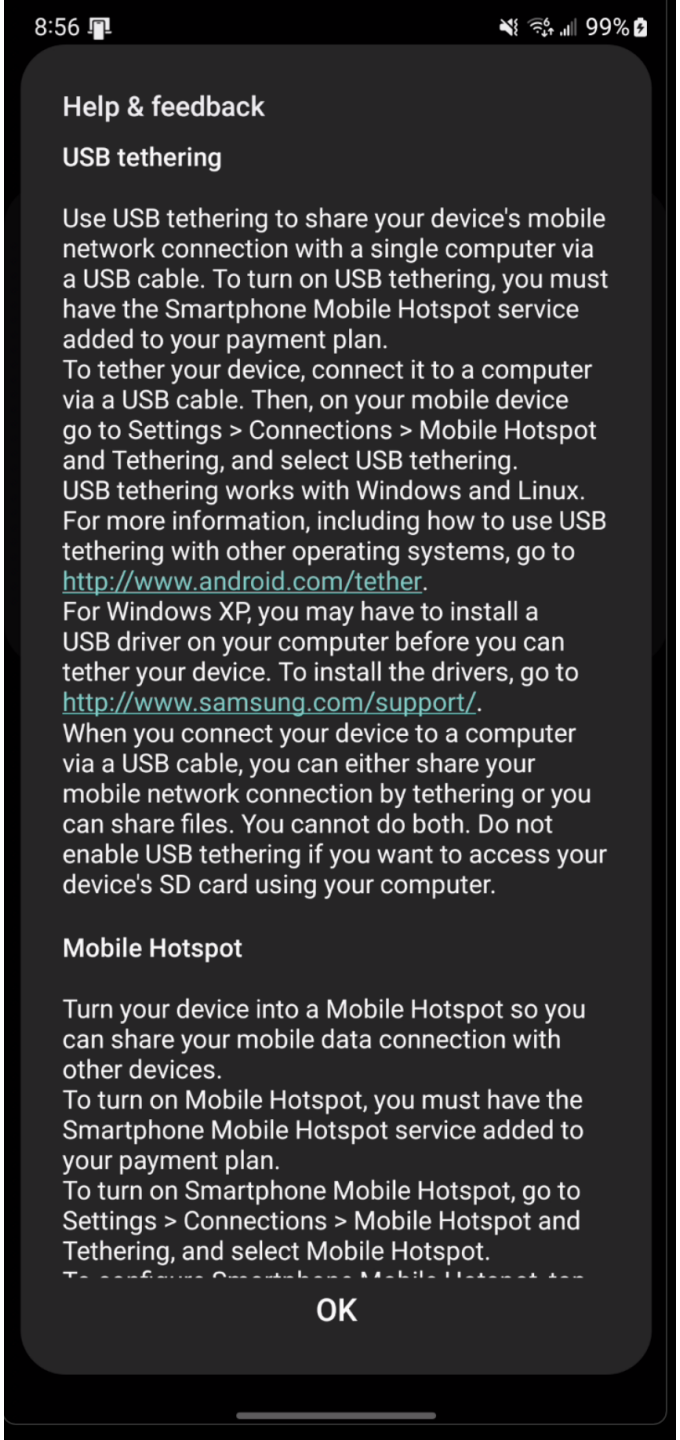

9:36
100%
Connections
Wi-Fi
Verizon_XC7J3W
Wi-Fi Calling
Bluetooth
NFC and contactless payments
Ultra-wideband (UWB)
Identify the precise location of nearby devices.
Airplane mode
Mobile networks
Data usage
SIM manager
Mobile Hotspot and Tethering
More connection settings

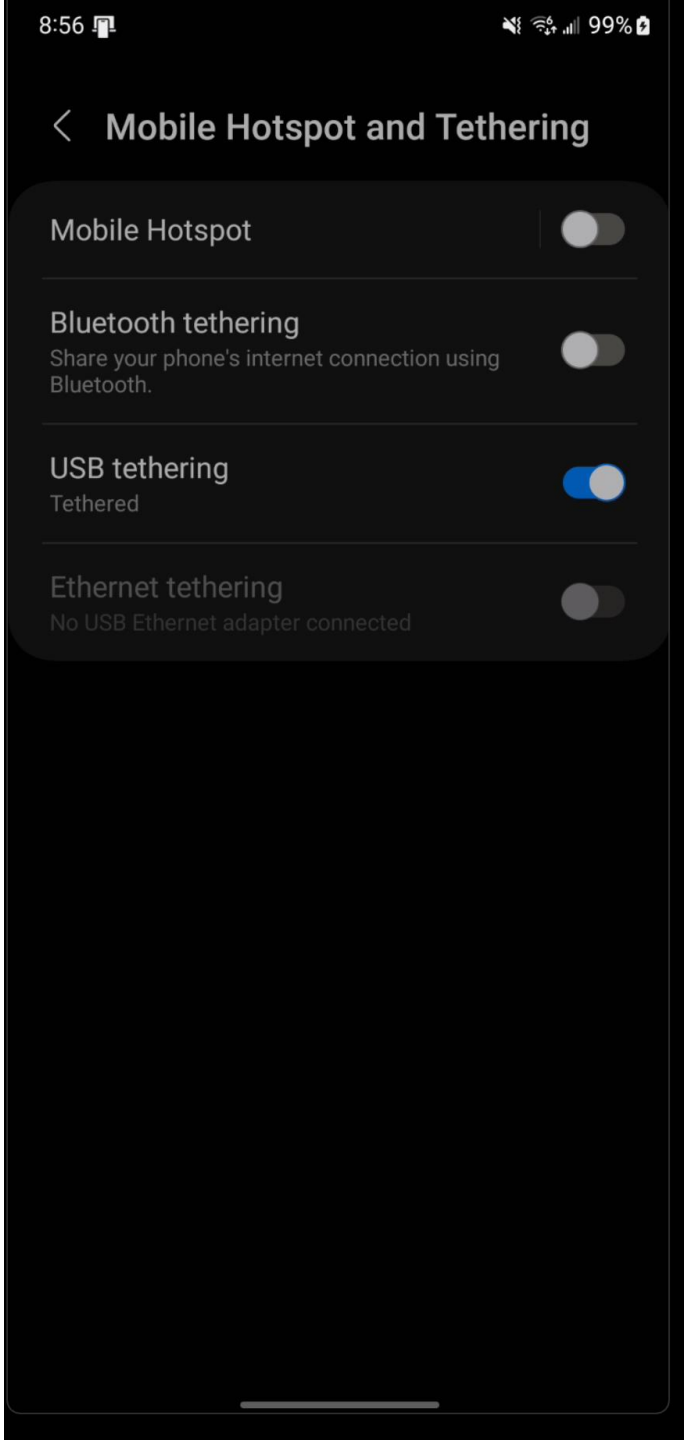
BIG STEP 200 (Activate "USB tether" in the "Settings" app of the cell phone) (continued)

SMALL STEP 211:
Tap on "USB tethering" to enable it.
If "USB tethering" is already enabled, tap on it to disable it, and then tap on it to re-enable it.


9:49
100%
Mobile Hotspot and Tethering
Mobile Hotspot
Bluetooth tethering
Share your phone's internet connection using Bluetooth.
USB tethering
USB connected, check to tether
Ethernet tethering
No USB Ethernet adapter connected


8:53
97%
Mobile Hotspot and Tethering
Mobile Hotspot
Bluetooth tethering
Share your phone's internet connection using Bluetooth.
USB tethering
USB connected, check to tether
Ethernet tethering
No USB Ethernet adapter connected
View USB tethering help
Tap OK to learn more about using USB tethering.
Do not show again
Cancel
OK


8:56
99%
Help & feedback
USB tethering
Use USB tethering to share your device's mobile network connection with a single computer via a USB cable. To turn on USB tethering, you must have the Smartphone Mobile Hotspot service added to your payment plan.
To tether your device, connect it to a computer via a USB cable. Then, on your mobile device go to Settings > Connections > Mobile Hotspot and Tethering, and select USB tethering.
USB tethering works with Windows and Linux. For more information, including how to use USB tethering with other operating systems, go to http://www.android.com/tether.
For Windows XP, you may have to install a USB driver on your computer before you can tether your device. To install the drivers, go to http://www.samsung.com/support/.
When you connect your device to a computer via a USB cable, you can either share your mobile network connection by tethering or you can share files. You cannot do both. Do not enable USB tethering if you want to access your device's SD card using your computer.
Mobile Hotspot
Turn your device into a Mobile Hotspot so you can share your mobile data connection with other devices.
To turn on Mobile Hotspot, you must have the Smartphone Mobile Hotspot service added to your payment plan.
To turn on Smartphone Mobile Hotspot, go to Settings > Connections > Mobile Hotspot and Tethering, and select Mobile Hotspot.
OK


8:56
99%
Mobile Hotspot and Tethering
Mobile Hotspot
Bluetooth tethering
Share your phone's internet connection using Bluetooth.
USB tethering
Tethered
Ethernet tethering
No USB Ethernet adapter connected

BIG STEP 200 (Activate "USB tether" in the "Settings" app of the cell phone) (continued)

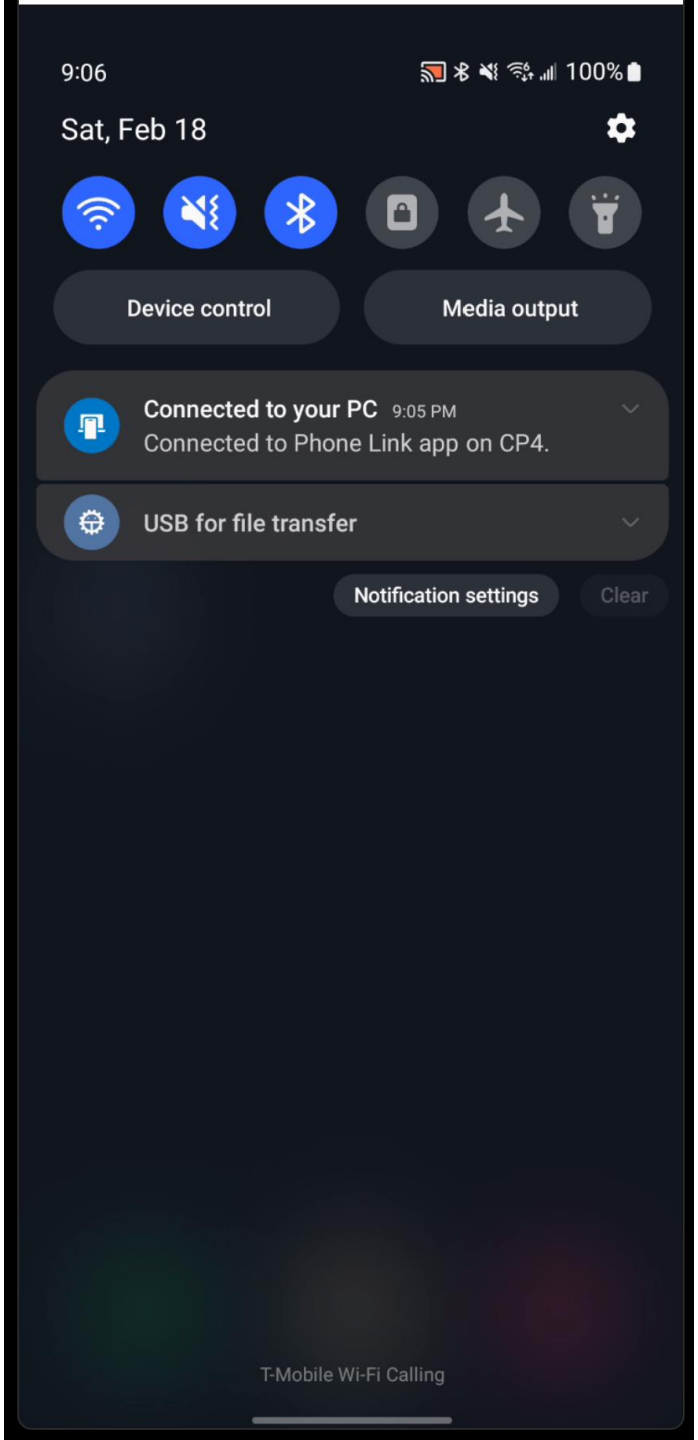
SMALL STEP 212:
Swipe up from the bottom of the screen to close "Settings"

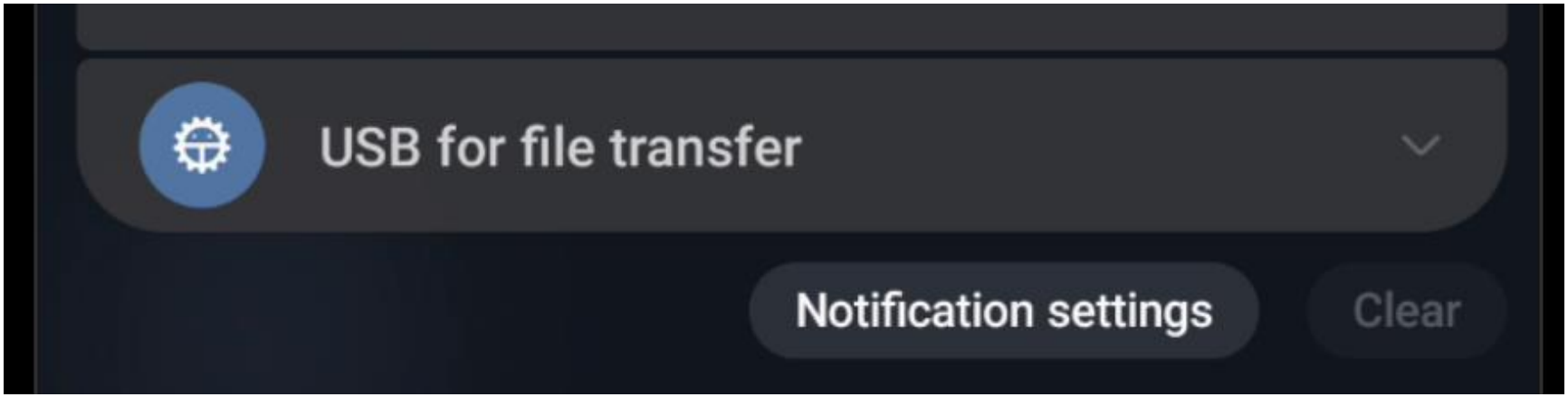
BIG STEP 200 (Activate "USB tether" in the "Settings" app of the cell phone) (continued)

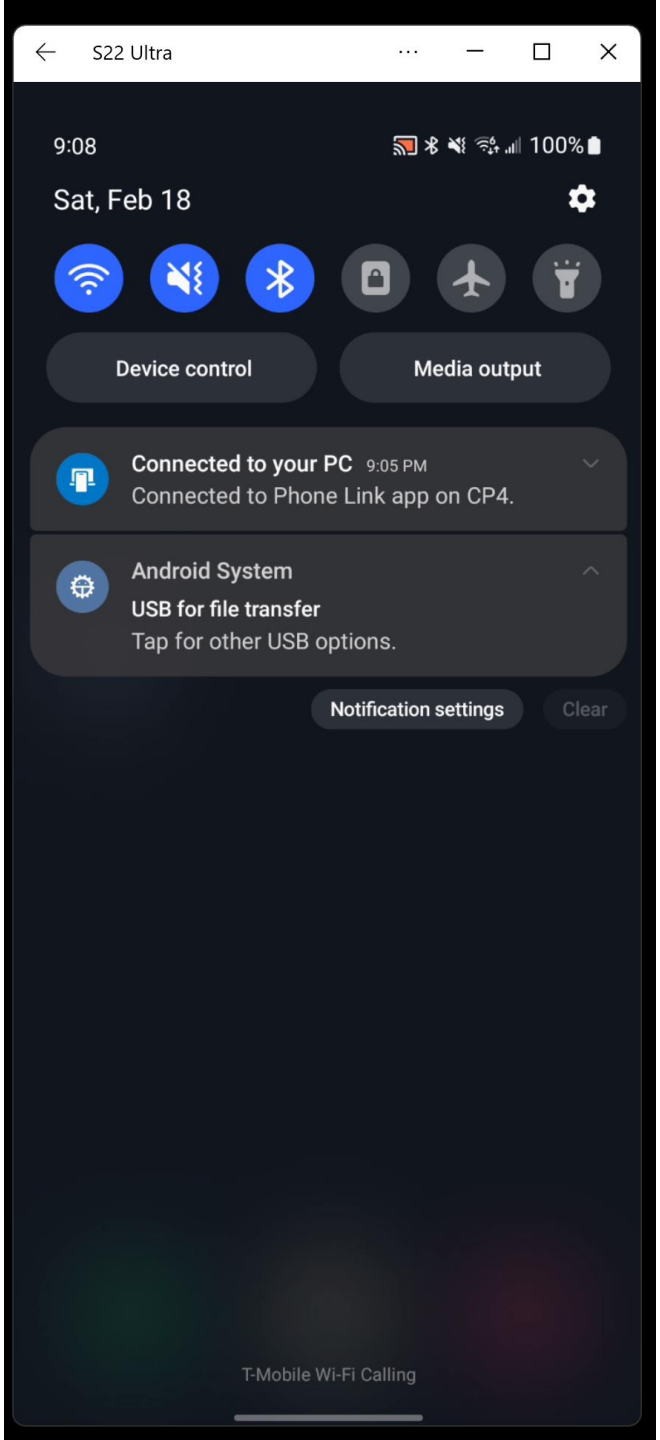
SMALL STEP 213:
Using the Android cell phone, swipe down from the top of the screen to the middle of the screen:

BIG STEP 200 (Activate "USB tether" in the "Settings" app of the cell phone) (continued)

SMALL STEP 214:
A "Notifications Panel" will be displayed.

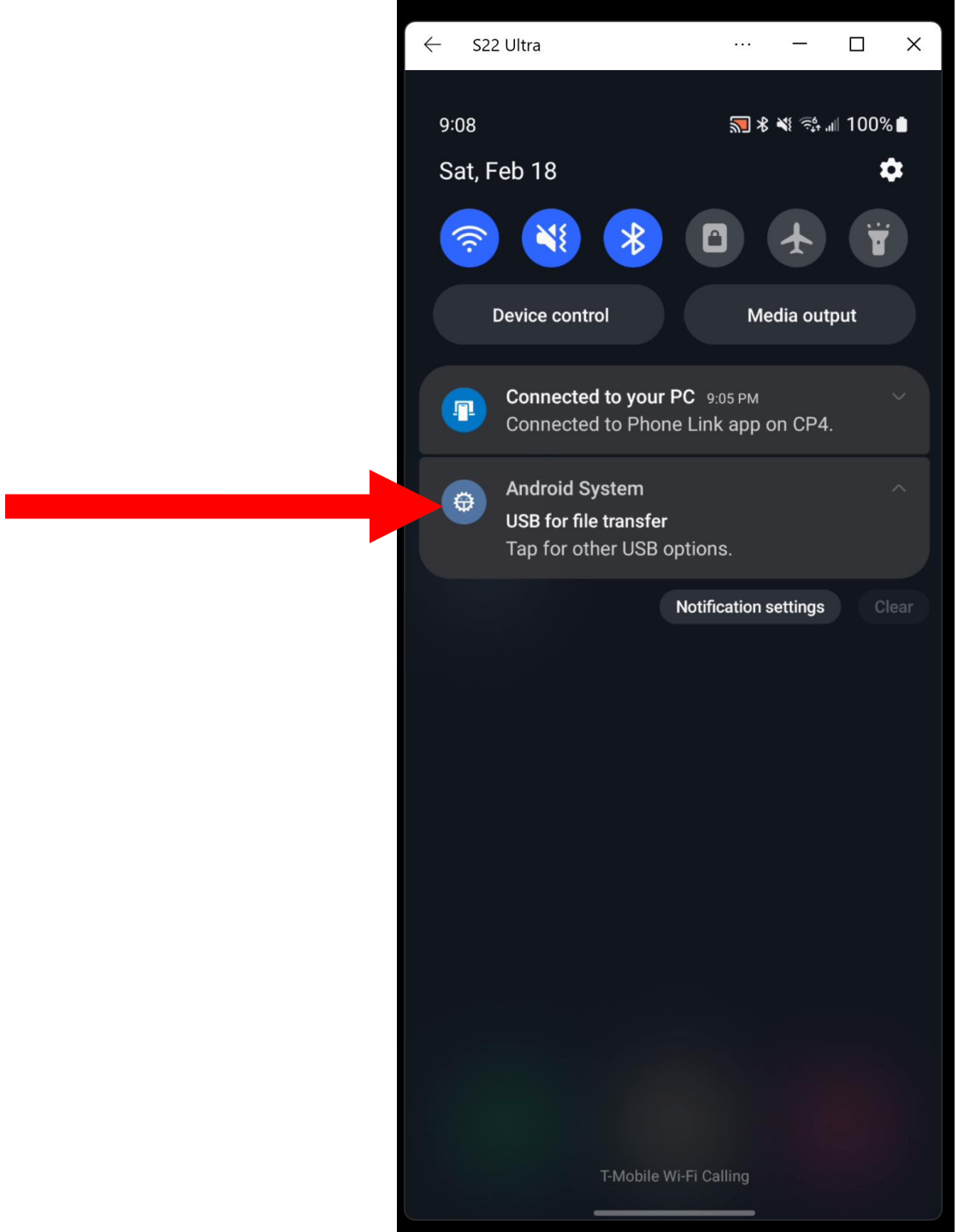

9:06
100%
Sat, Feb 18
Device control
Media output
Connected to your PC 9:05 PM
Connected to Phone Link app on CP4.
USB for file transfer
Notification settings
Clear
T-Mobile Wi-Fi Calling

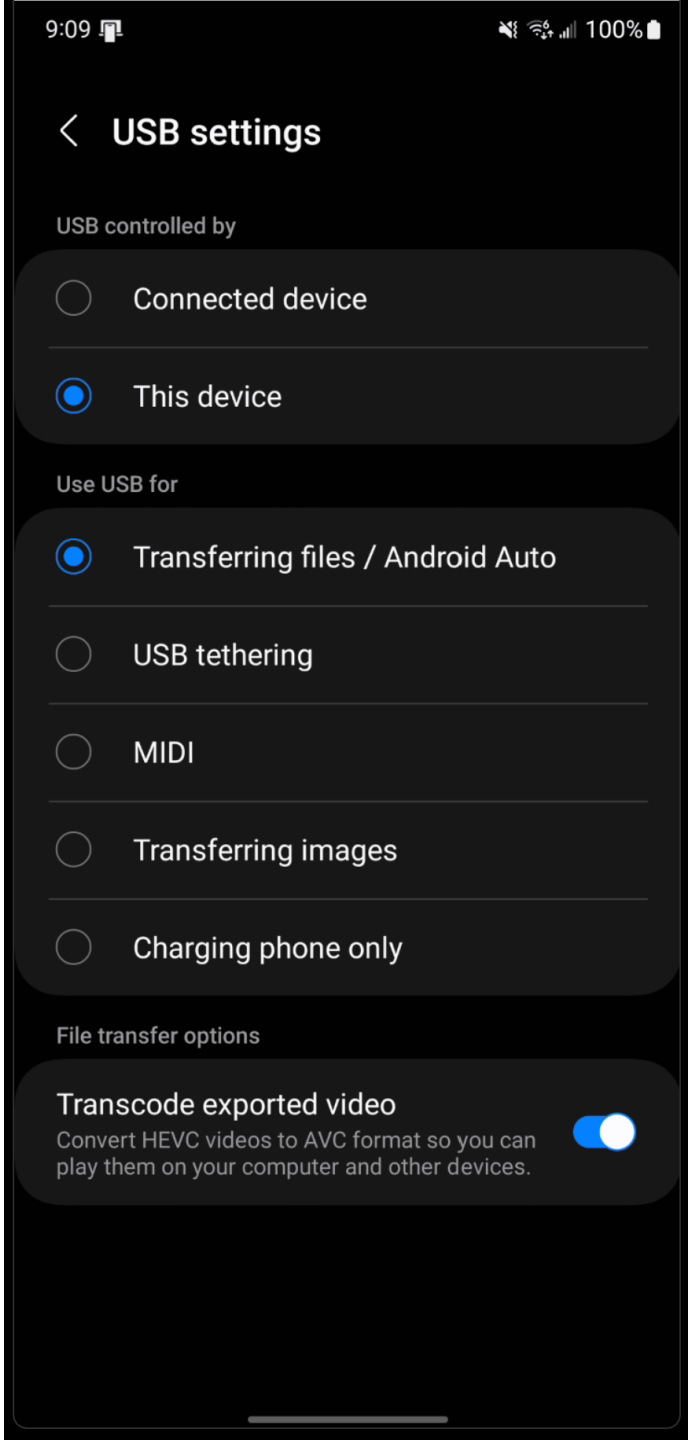

USB for file transfer
Notification settings
Clear


S22 Ultra
9:08
100%
Sat, Feb 18
Device control
Media output
Connected to your PC 9:05 PM
Connected to Phone Link app on CP4.
Android System
USB for file transfer
Tap for other USB options.
Notification settings
Clear
T-Mobile Wi-Fi Calling

BIG STEP 200 (Activate "USB tether" in the "Settings" app of the cell phone) (continued)

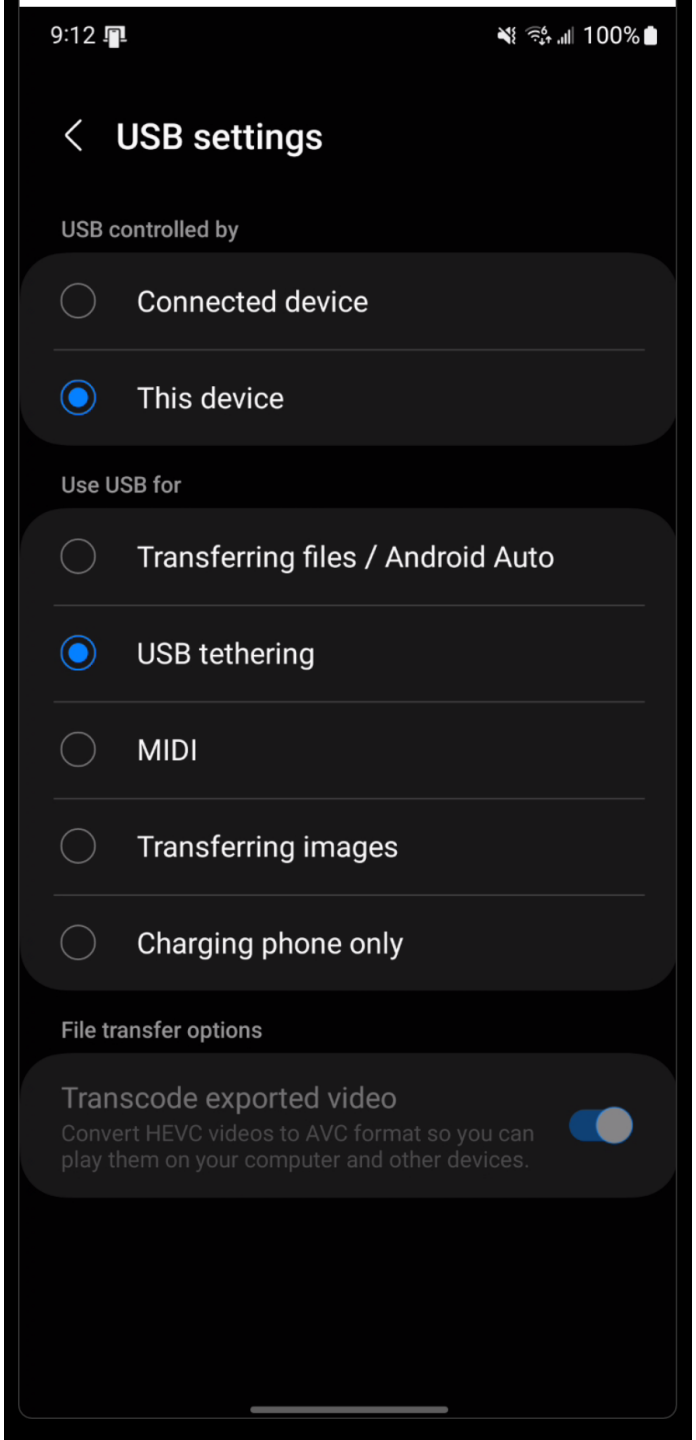
SMALL STEP 215:
Tap twice on "USB for File Transfer"


S22 Ultra
9:08
100%
Sat, Feb 18
Device control
Media output
Connected to your PC 9:05 PM
Connected to Phone Link app on CP4.
Android System
USB for file transfer
Tap for other USB options.
Notification settings
Clear
T-Mobile Wi-Fi Calling


9:09
100%
USB settings
USB controlled by
Connected device
This device
Use USB for
Transferring files / Android Auto
USB tethering
MIDI
Transferring images
Charging phone only
File transfer options
Transcode exported video
Convert HEVC videos to AVC format so you can play them on your computer and other devices.

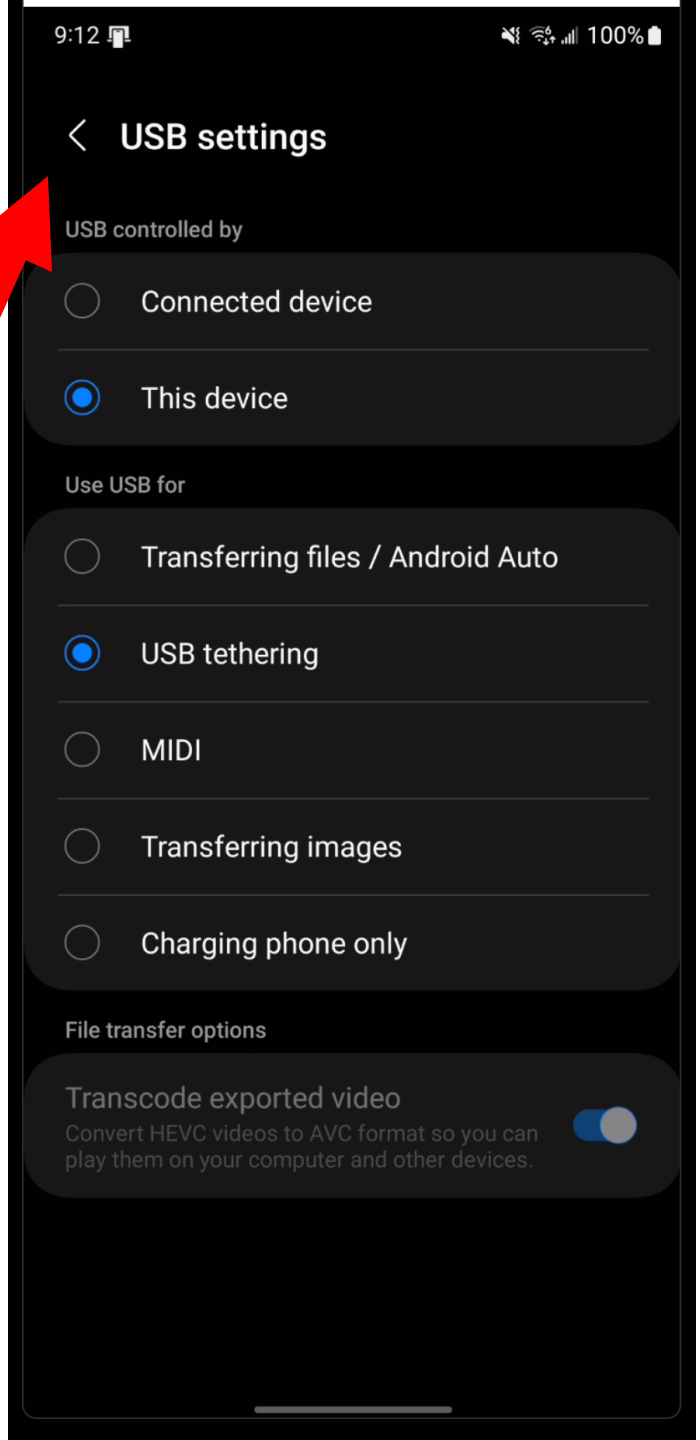
BIG STEP 200 (Activate "USB tether" in the "Settings" app of the cell phone) (continued)

SMALL STEP 216:
Select "USB tethering"


9:12
100%
USB settings
USB controlled by
Connected device
This device
Use USB for
Transferring files / Android Auto
USB tethering
MIDI
Transferring images
Charging phone only
File transfer options
Transcode exported video
Convert HEVC videos to AVC format so you can play them on your computer and other devices.

BIG STEP 200 (Activate "USB tether" in the "Settings" app of the cell phone) (continued)

SMALL STEP 217:
Tap on "USB settings":


9:12
100%
USB settings
USB controlled by
Connected device
This device
Use USB for
Transferring files / Android Auto
USB tethering
MIDI
Transferring images
Charging phone only
File transfer options
Transcode exported video
Convert HEVC videos to AVC format so you can play them on your computer and other devices.

BIG STEP 200 (Activate "USB tether" in the "Settings" app of the cell phone) (continued)

SMALL STEP 218:
Swipe up from the bottom of the screen to close the "Notifications Panel" if it did not close when you tapped on "USB settings".

BIG STEP 300 (Activate the tethered Internet connection from the client device)

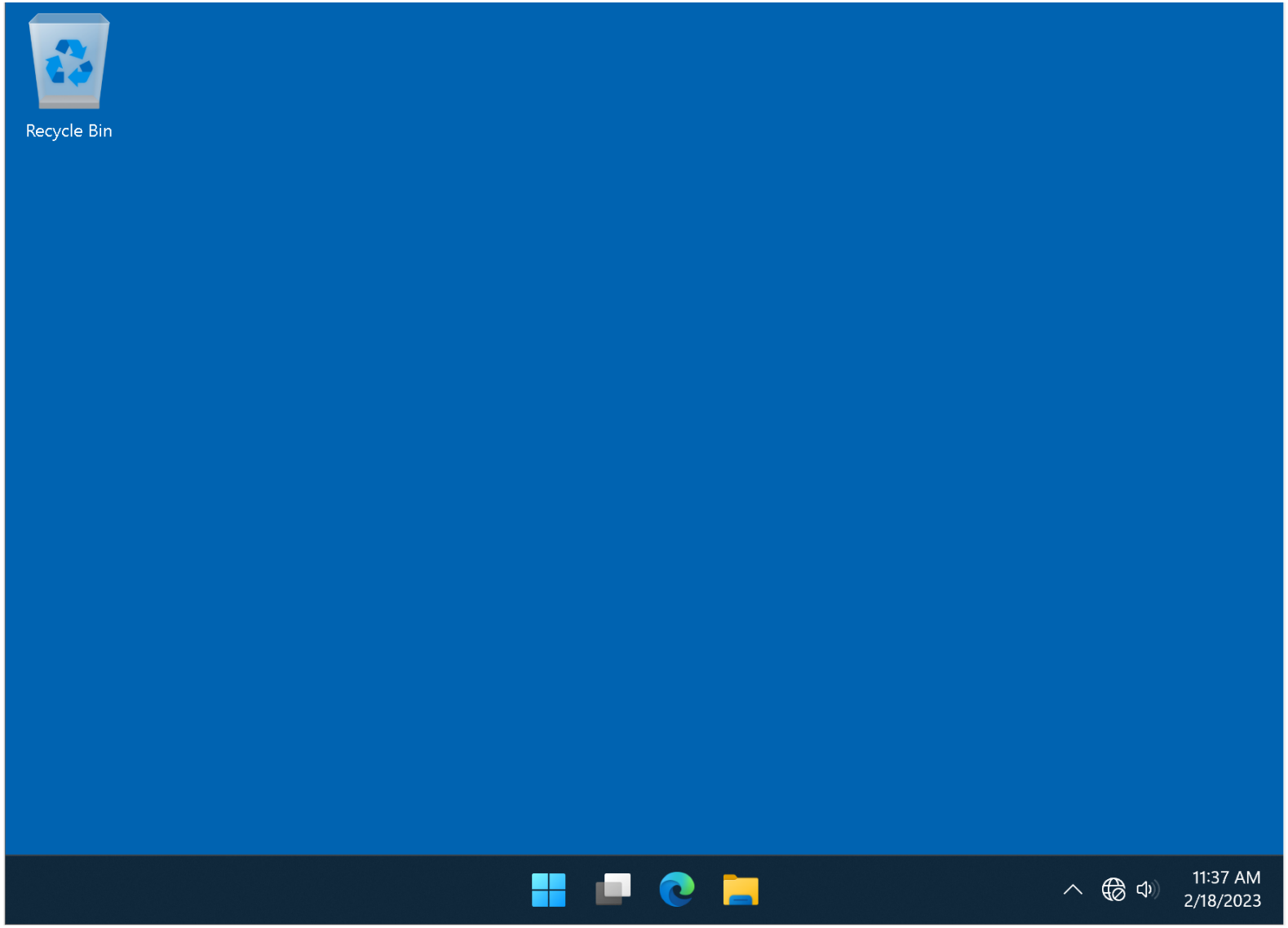
- SMALL STEP 301:
  Inside the client device (the device that you are providing Internet access for), the Android cell phone will appear as a virtual "Ethernet" adapter that can provide the client device with Internet access, if you "Enable" the virtual "Ethernet" adapter.

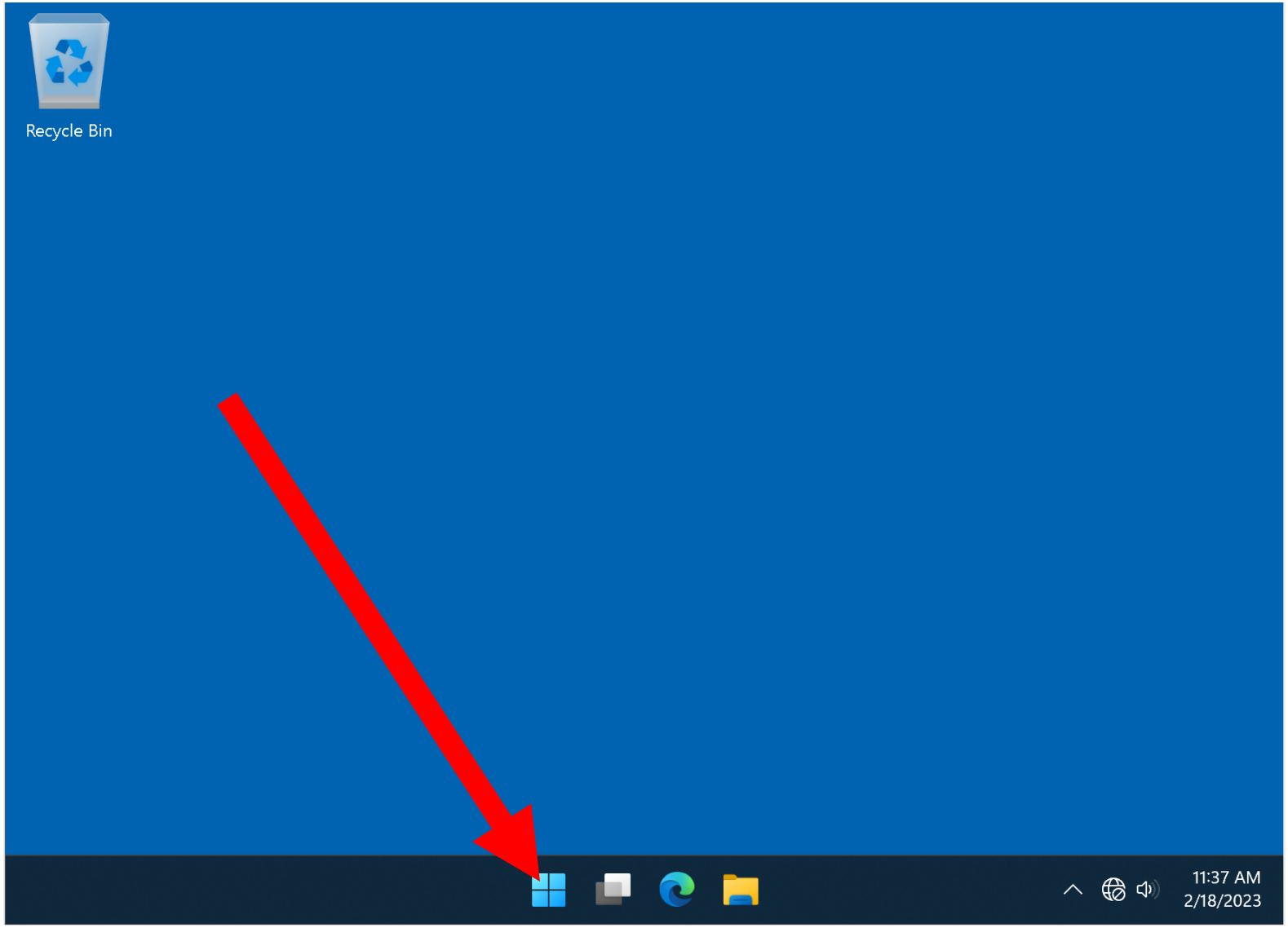
BIG STEP 300 (Activate the tethered Internet connection from the client device) (continued)

- SMALL STEP 301 (continued):
  From the client computer, tablet, or cell phone, go to either
  "Network Connections"
  or
  "Settings"

BIG STEP 300 (Activate the tethered Internet connection from the client device) (continued)

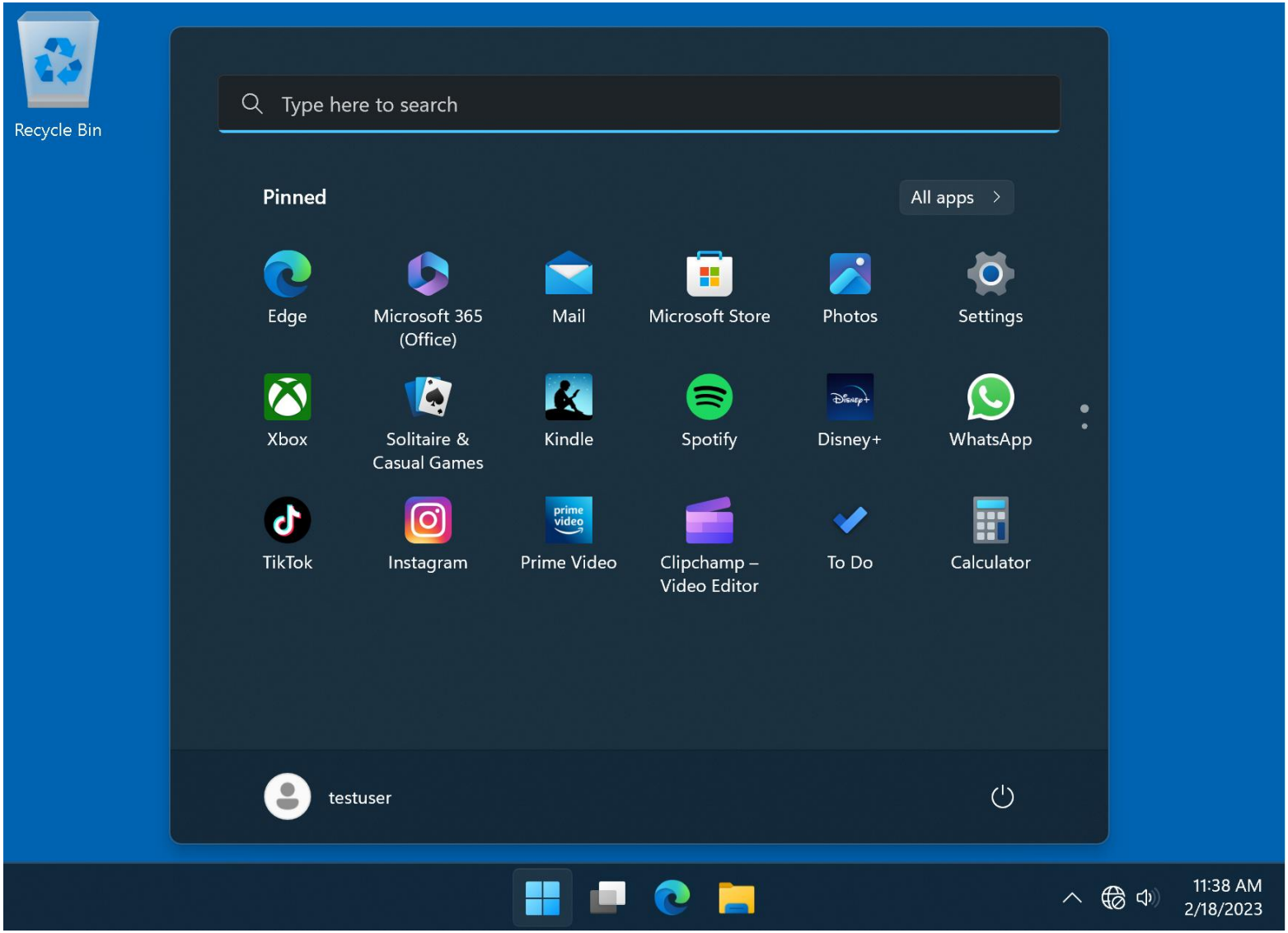
- SMALL STEP 302:
  From a Windows.. computer, use the left mouse button to click on the "Start" button:

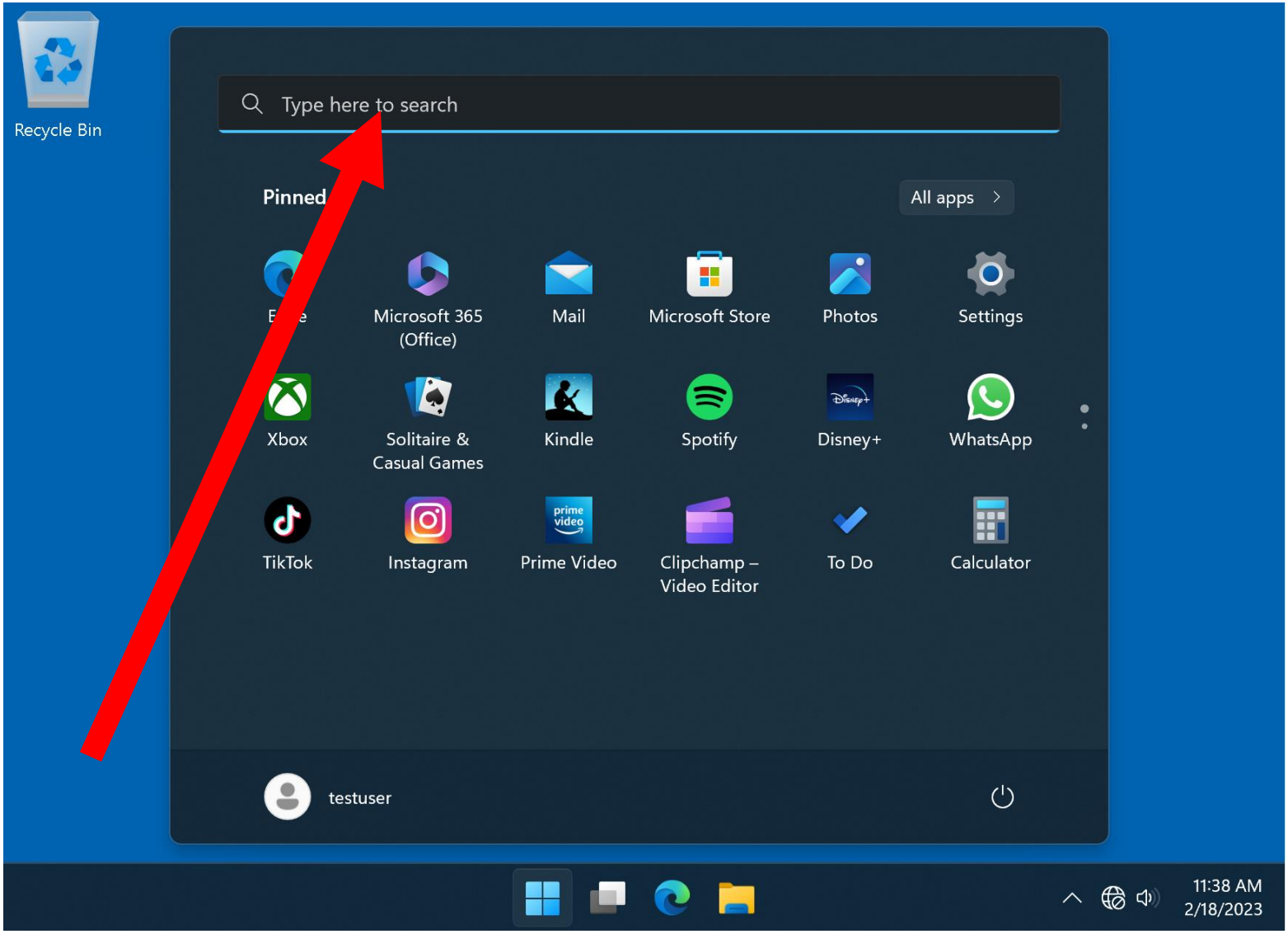

Recycle Bin
11:37 AM
2/18/2023


Recycle Bin
11:37 AM
2/18/2023

BIG STEP 300 (Activate the tethered Internet connection from the client device) (continued)

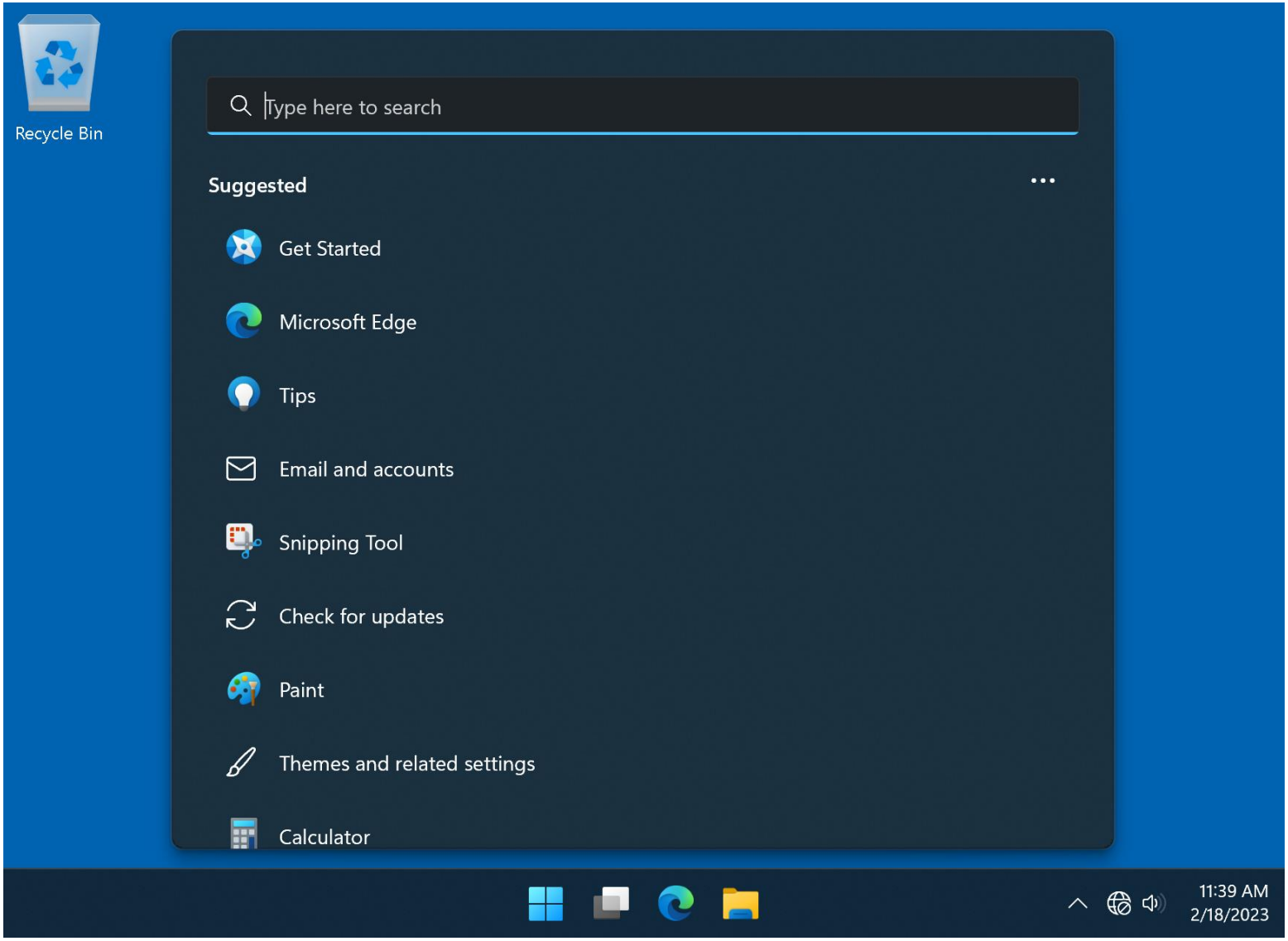
- SMALL STEP 303:
  Click on the "Search" field:


Recycle Bin
Type here to search
Pinned
All apps
Edge
Microsoft 365 (Office)
Mail
Microsoft Store
Photos
Settings
Xbox
Solitaire & Casual Games
Kindle
Spotify
Disney+
WhatsApp
TikTok
Instagram
Prime Video
Clipchamp – Video Editor
To Do
Calculator
testuser
11:38 AM
2/18/2023


Recycle Bin
Type here to search
Pinned
All apps
Microsoft 365 (Office)
Mail
Microsoft Store
Photos
Settings
Xbox
Solitaire & Casual Games
Kindle
Spotify
Disney+
WhatsApp
TikTok
Instagram
Prime Video
Clipchamp – Video Editor
To Do
Calculator
testuser
11:38 AM
2/18/2023

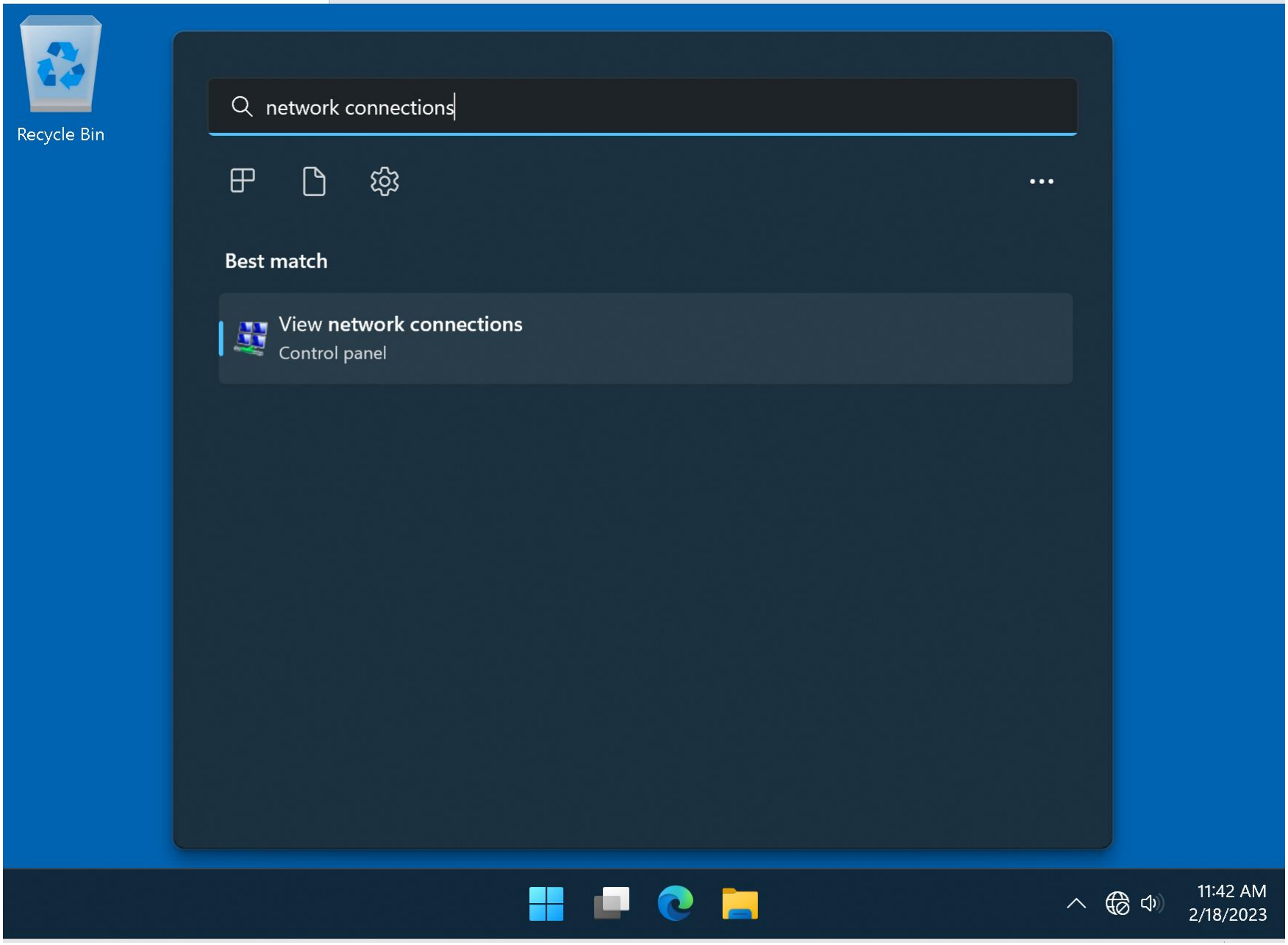
BIG STEP 300 (Activate the tethered Internet connection from the client device) (continued)

- SMALL STEP 304:
  A pop-up window will be displayed:


Recycle Bin
Type here to search
Suggested
Get Started
Microsoft Edge
Tips
Email and accounts
Snipping Tool
Check for updates
Paint
Themes and related settings
Calculator
11:39 AM
2/18/2023

BIG STEP 300 (Activate the tethered Internet connection from the client device) (continued)

- SMALL STEP 305:
  Type in
  network connections
  into the search box of the pop-up window:

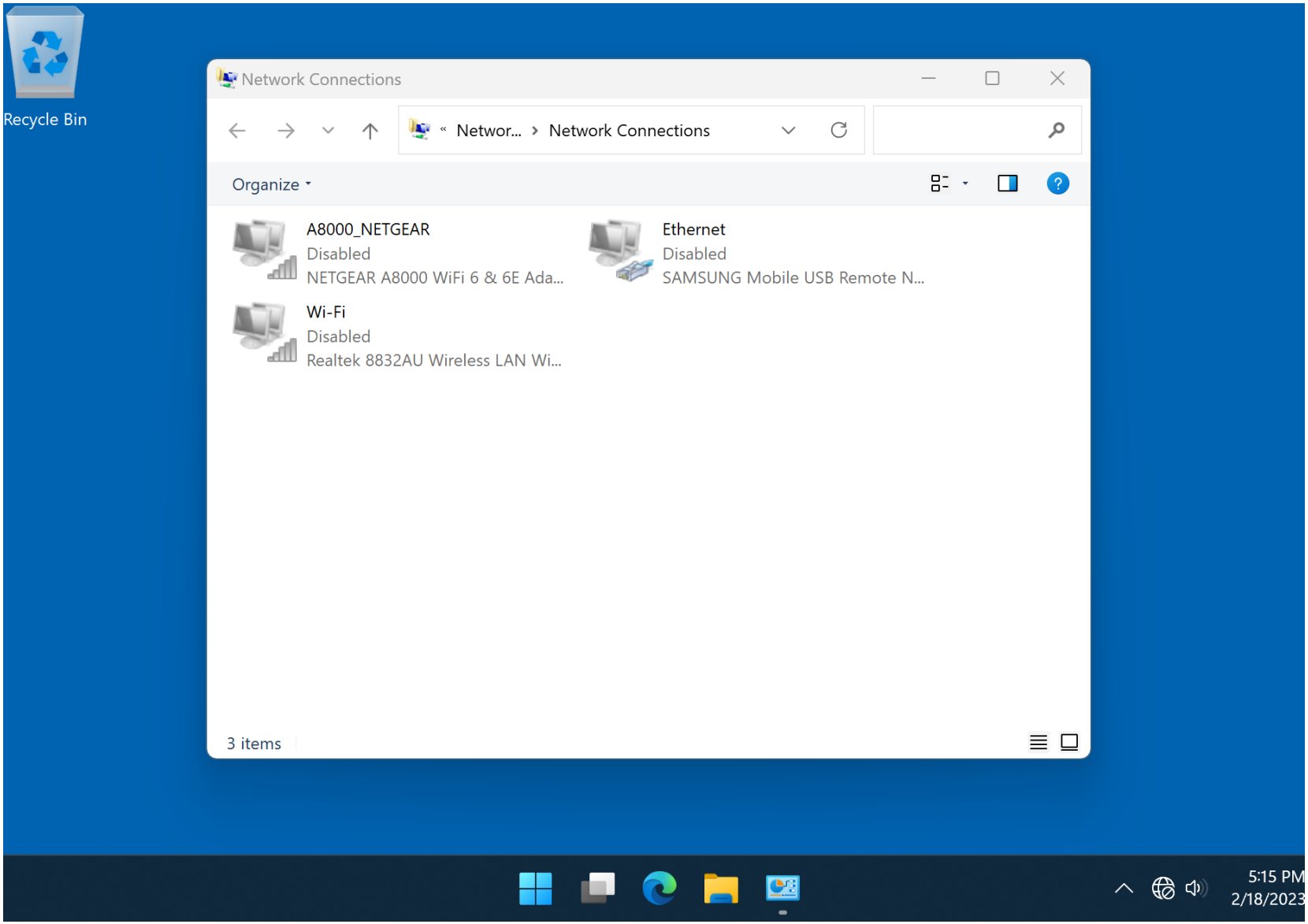

Recycle Bin
network connections
Best match
View network connections
Control panel
11:42 AM
2/18/2023

BIG STEP 300 (Activate the tethered Internet connection from the client device) (continued)

- SMALL STEP 306:
  Press the Enter key of the computer's keyboard.

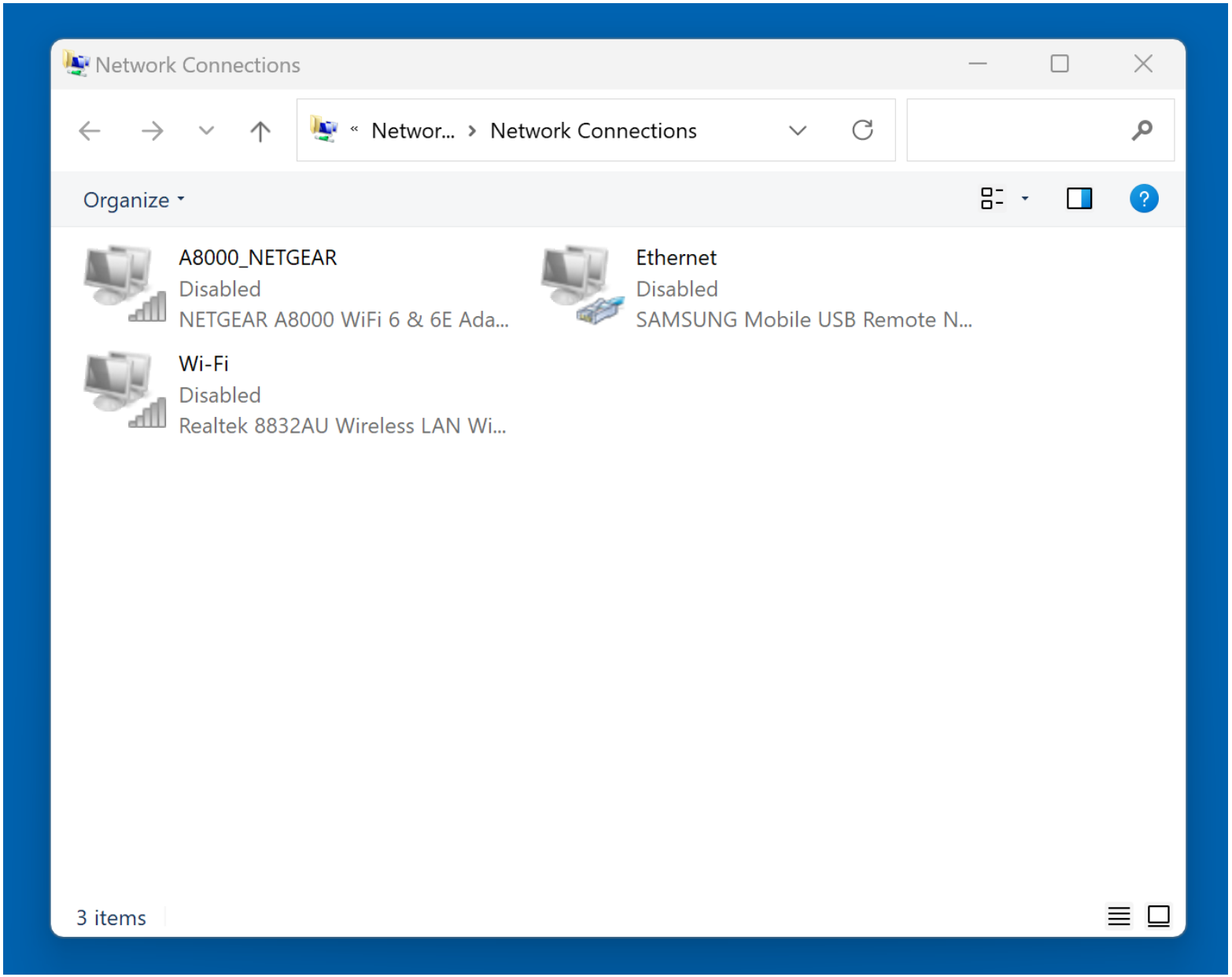
BIG STEP 300 (Activate the tethered Internet connection from the client device) (continued)

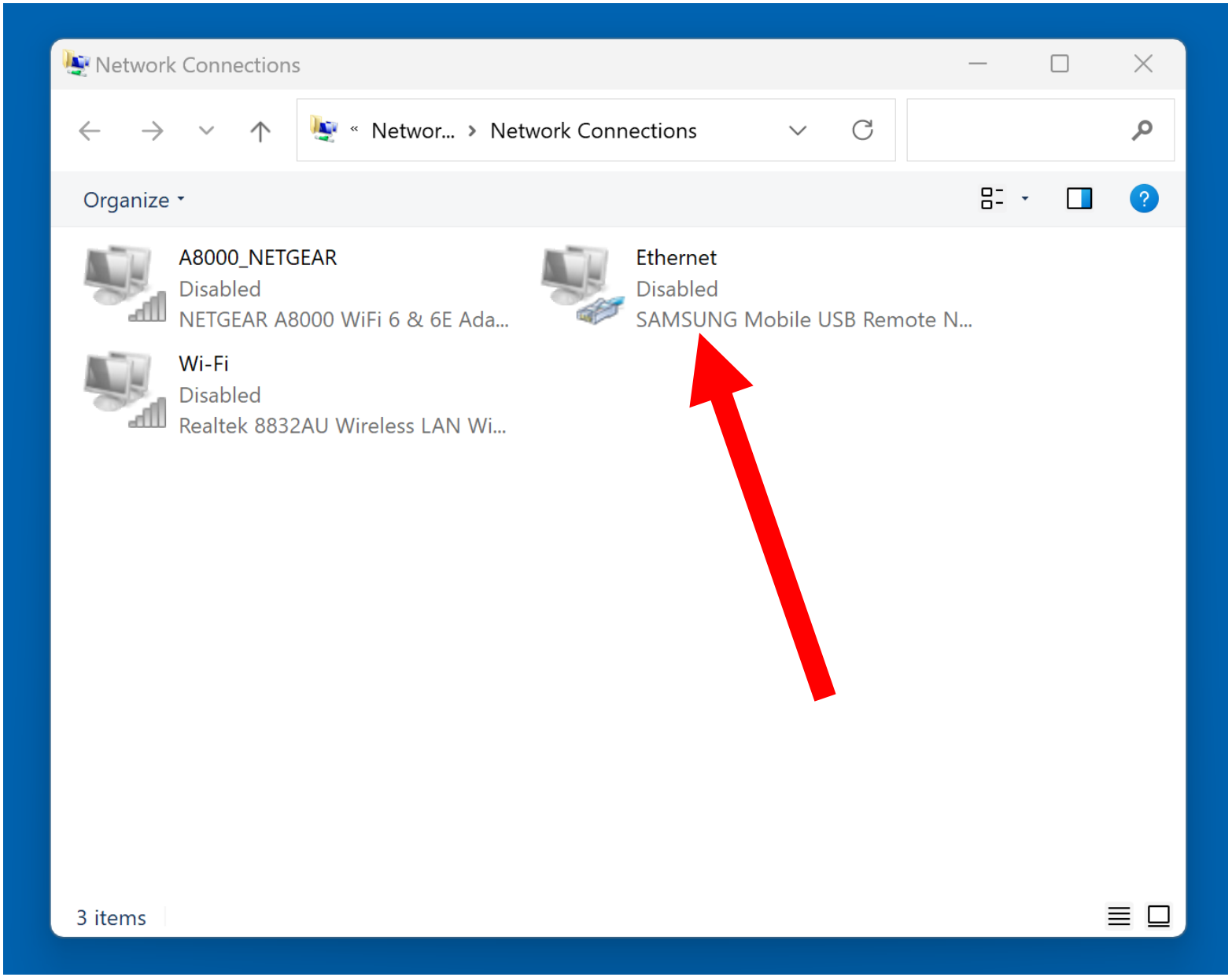
- SMALL STEP 307:
  A "Network Connections" window will be displayed.


Recycle Bin
Network Connections
Networ... › Network Connections
Organize
A8000_NETGEAR
Disabled
NETGEAR A8000 WiFi 6 & 6E Ada...
Ethernet
Disabled
SAMSUNG Mobile USB Remote N...
Wi-Fi
Disabled
Realtek 8832AU Wireless LAN Wi...
3 items
5:15 PM
2/18/2023

BIG STEP 300 (Activate the tethered Internet connection from the client device) (continued)

- SMALL STEP 308:
  Locate the (virtual) Ethernet adapter that is named after the brand name of the Android cell phone:


Network Connections
Networ... › Network Connections
Organize
A8000_NETGEAR
Disabled
NETGEAR A8000 WiFi 6 & 6E Ada...
Ethernet
Disabled
SAMSUNG Mobile USB Remote N...
Wi-Fi
Disabled
Realtek 8832AU Wireless LAN Wi...
3 items


Network Connections
Networ... › Network Connections
Organize
A8000_NETGEAR
Disabled
NETGEAR A8000 WiFi 6 & 6E Ada...
Ethernet
Disabled
SAMSUNG Mobile USB Remote N...
Wi-Fi
Disabled
Realtek 8832AU Wireless LAN Wi...
3 items

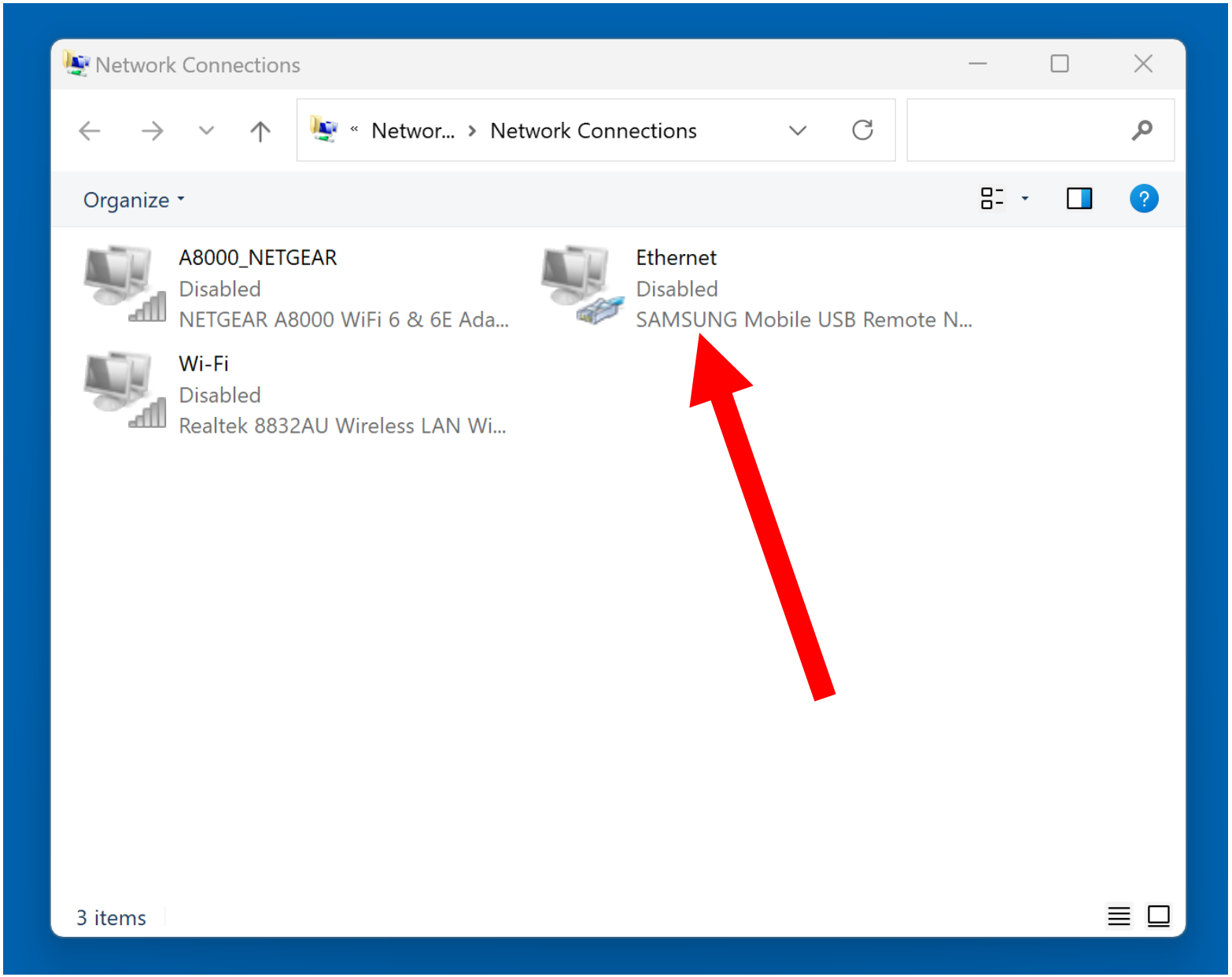
Ethernet

Disabled

SAMSUNG Mobile USB Remote N...

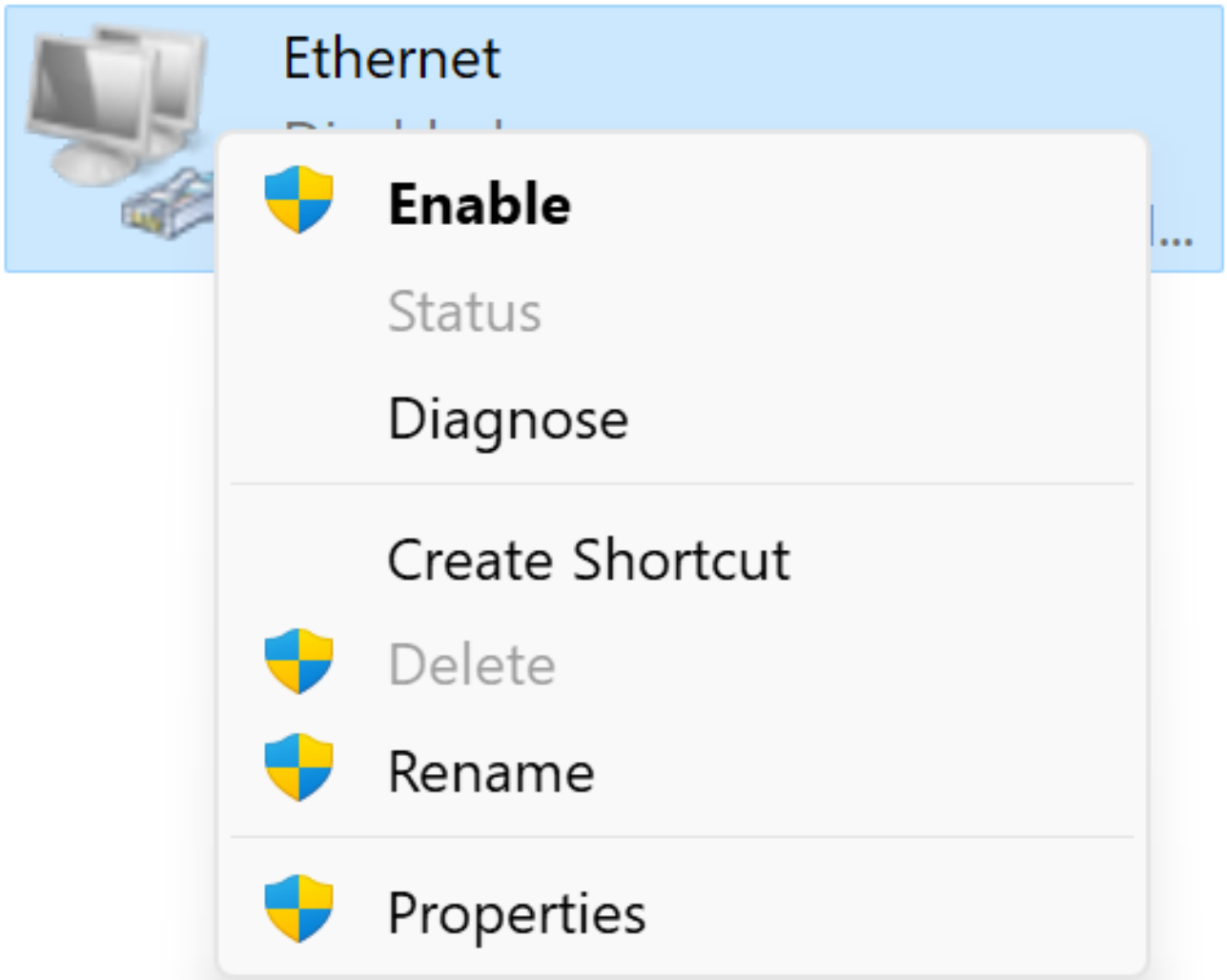
BIG STEP 300 (Activate the tethered Internet connection from the client device) (continued)

- SMALL STEP 309:
  Use the right mouse button to click on the (virtual) Ethernet adapter that is named after the brand name of the Android cell phone:


Network Connections
Networ... › Network Connections
Organize
A8000_NETGEAR
Disabled
NETGEAR A8000 WiFi 6 & 6E Ada...
Ethernet
Disabled
SAMSUNG Mobile USB Remote N...
Wi-Fi
Disabled
Realtek 8832AU Wireless LAN Wi...
3 items

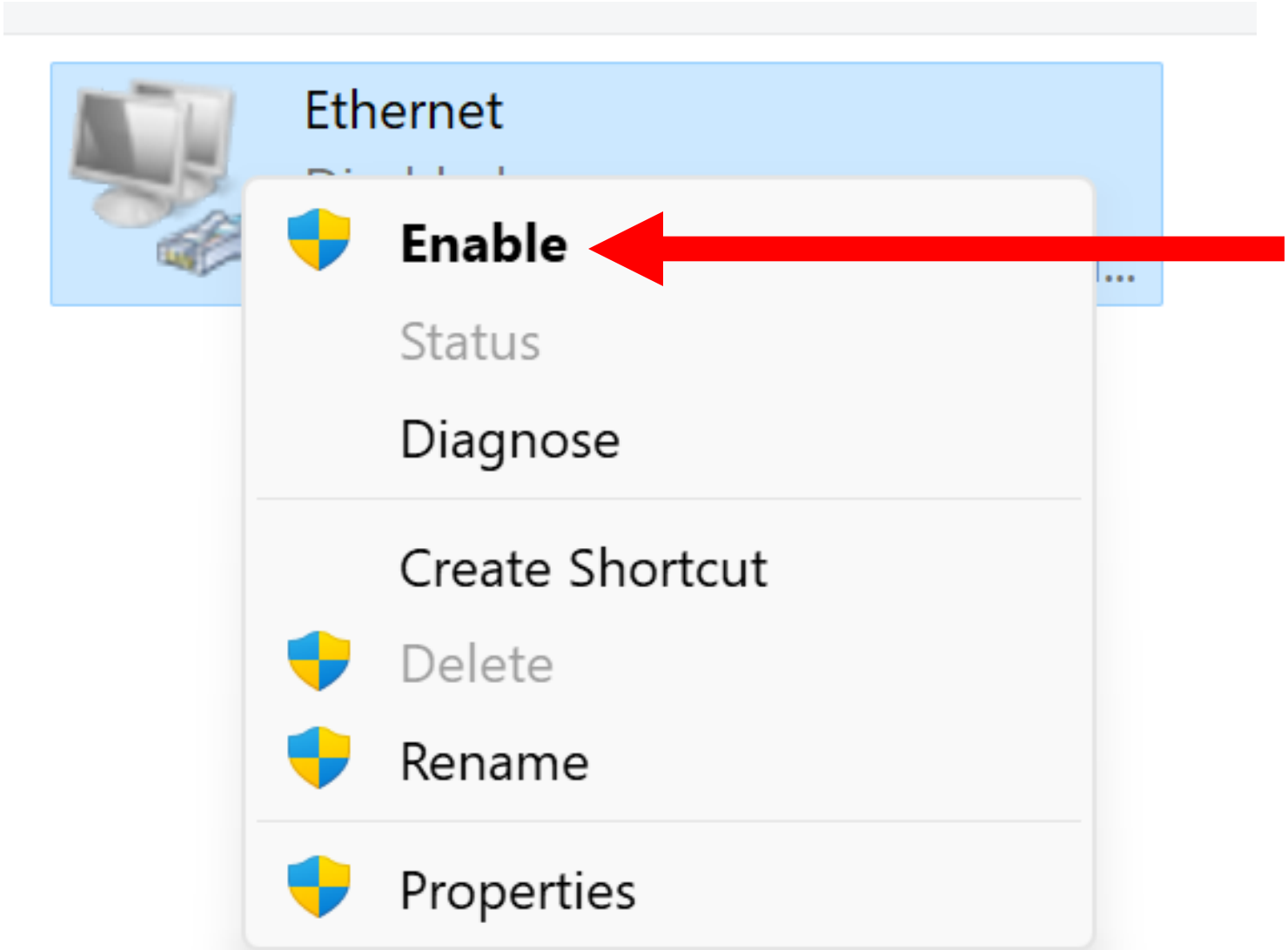
BIG STEP 300 (Activate the tethered Internet connection from the client device) (continued)

- SMALL STEP 310:
  A pop-up utility menu will be displayed:


Ethernet
Enable
Status
Diagnose
Create Shortcut
Delete
Rename
Properties

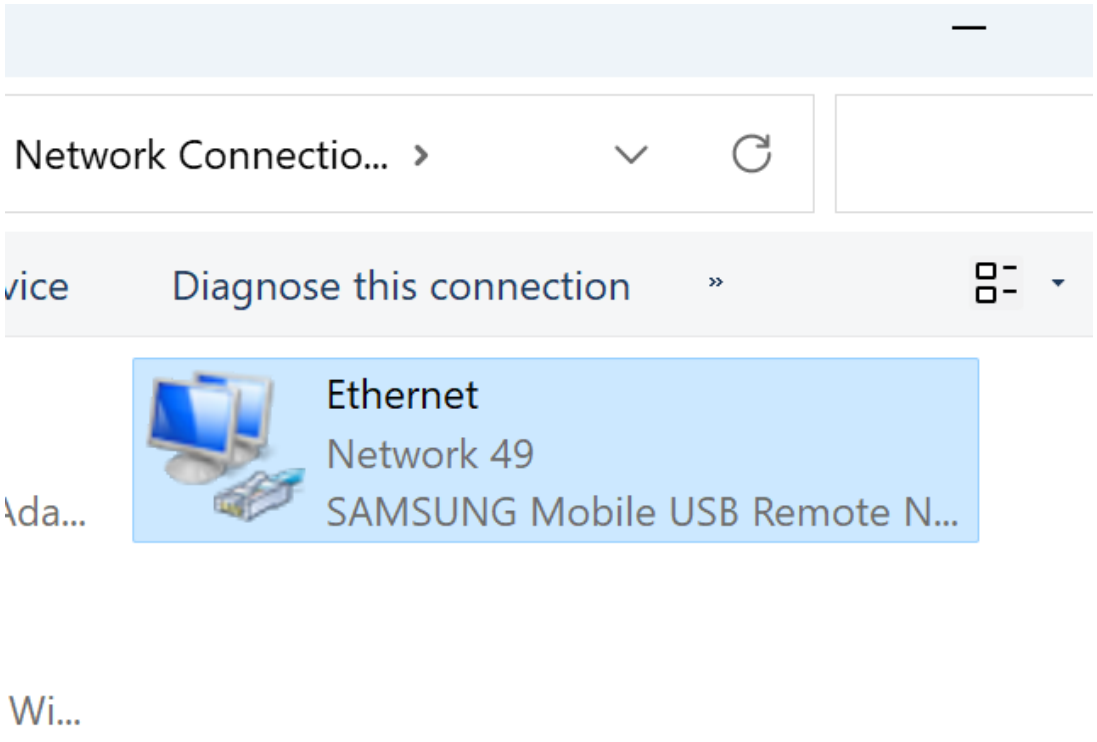
BIG STEP 300 (Activate the tethered Internet connection from the client device) (continued)

- SMALL STEP 312:
  Use the left mouse button to click on "Enable":


Ethernet
Enable
Status
Diagnose
Create Shortcut
Delete
Rename
Properties

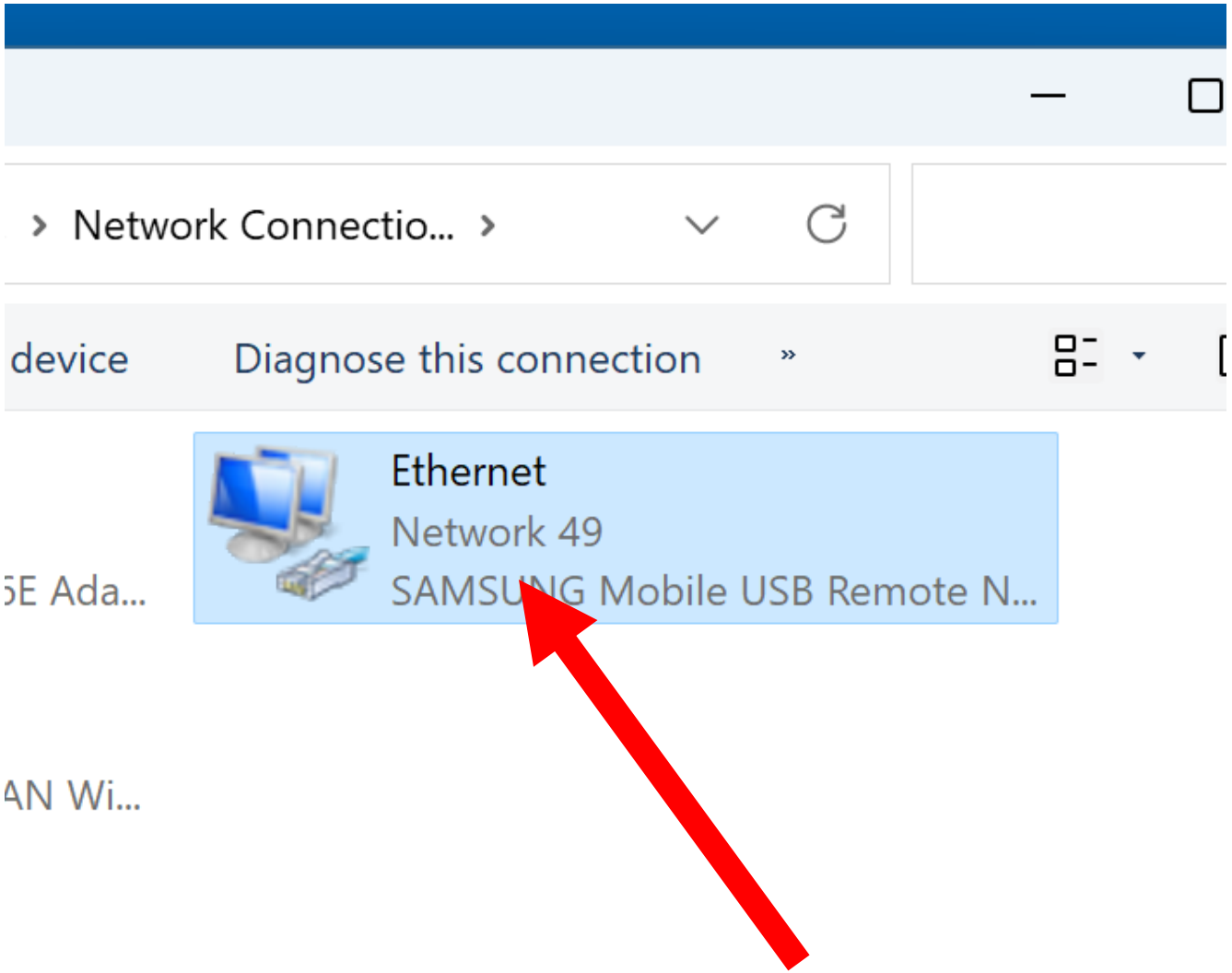
BIG STEP 300 (Activate the tethered Internet connection from the client device) (continued)

- SMALL STEP 313:
  The virtual Ethernet adapter that is named with the manufacturer of the Android cell phone will no longer be displayed as "Disabled":


Network Connectio...
vice
Diagnose this connection
Ethernet
Network 49
SAMSUNG Mobile USB Remote N...
Ada...
Wi...

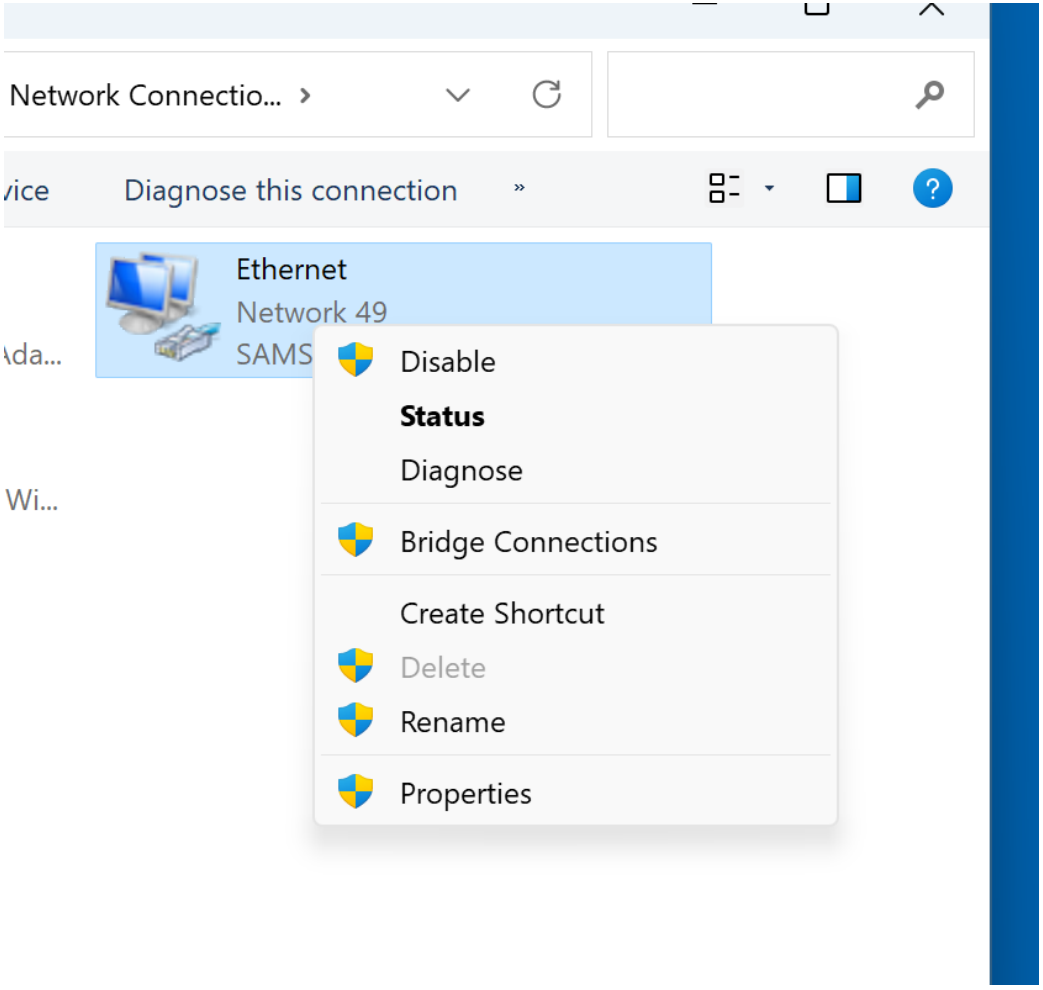
BIG STEP 300 (Activate the tethered Internet connection from the client device) (continued)

- SMALL STEP 314:
  Use the right mouse button to click on the (virtual) Ethernet adapter that is named after the brand name of the Android cell phone:


Network Connectio...
device
Diagnose this connection
Ethernet
Network 49
SAMSUNG Mobile USB Remote N...
5E Ada...
AN Wi...

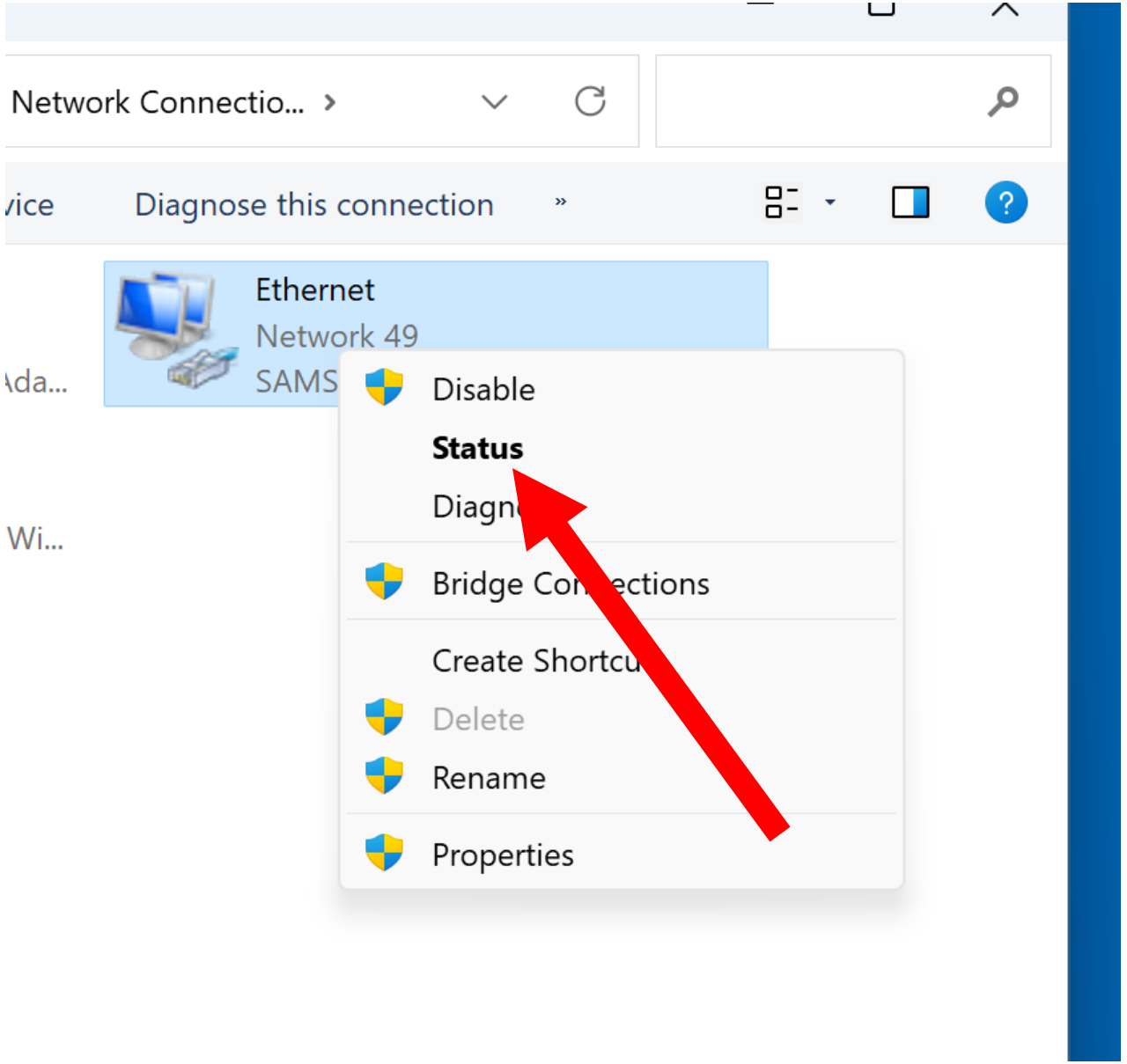
BIG STEP 300 (Activate the tethered Internet connection from the client device) (continued)

- SMALL STEP 315:
  A pop-up utility menu will be displayed:


Network Connectio...
Diagnose this connection
Ethernet
Network 49
SAMS
Disable
Status
Diagnose
Bridge Connections
Create Shortcut
Delete
Rename
Properties

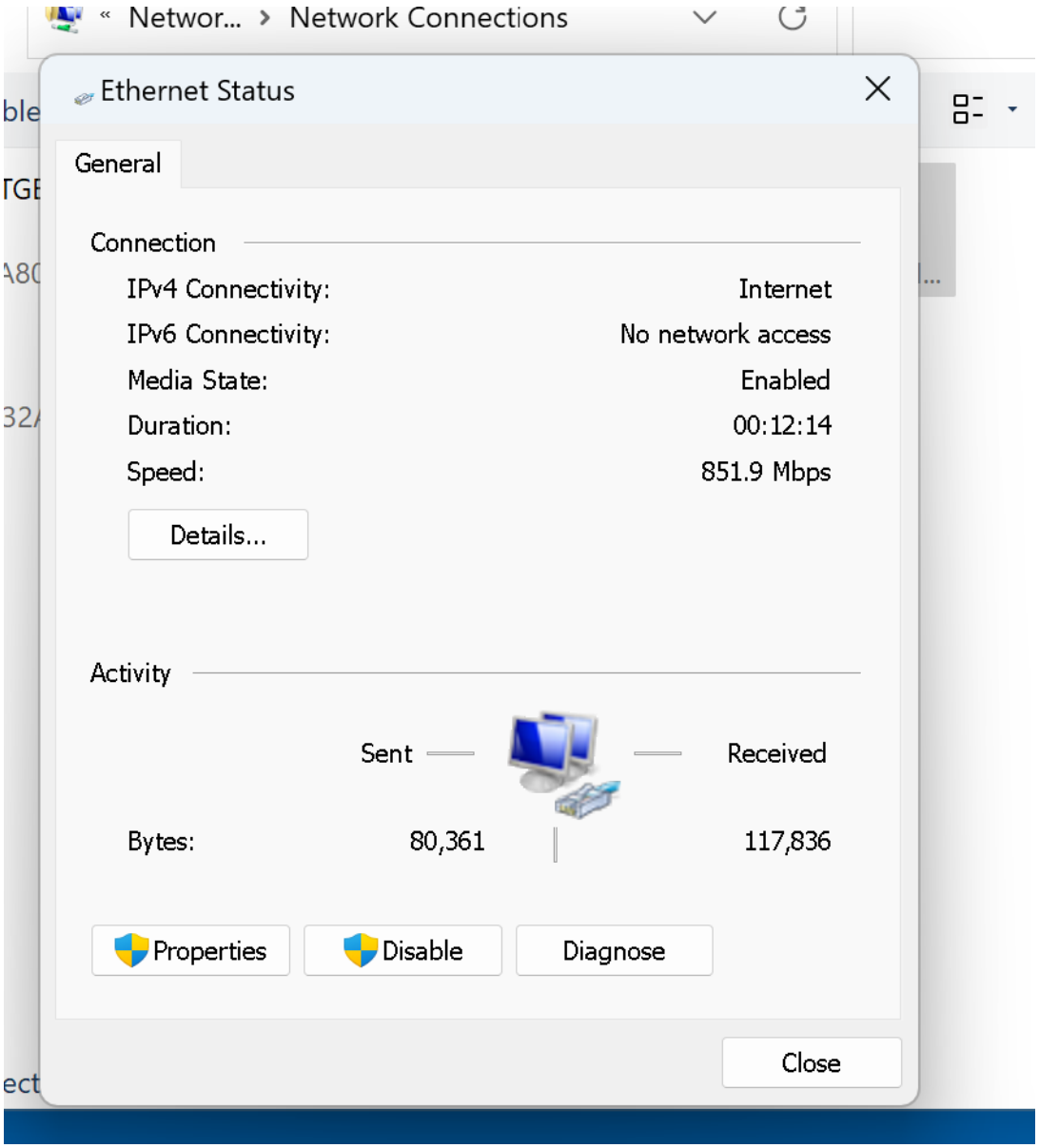
BIG STEP 300 (Activate the tethered Internet connection from the client device) (continued)

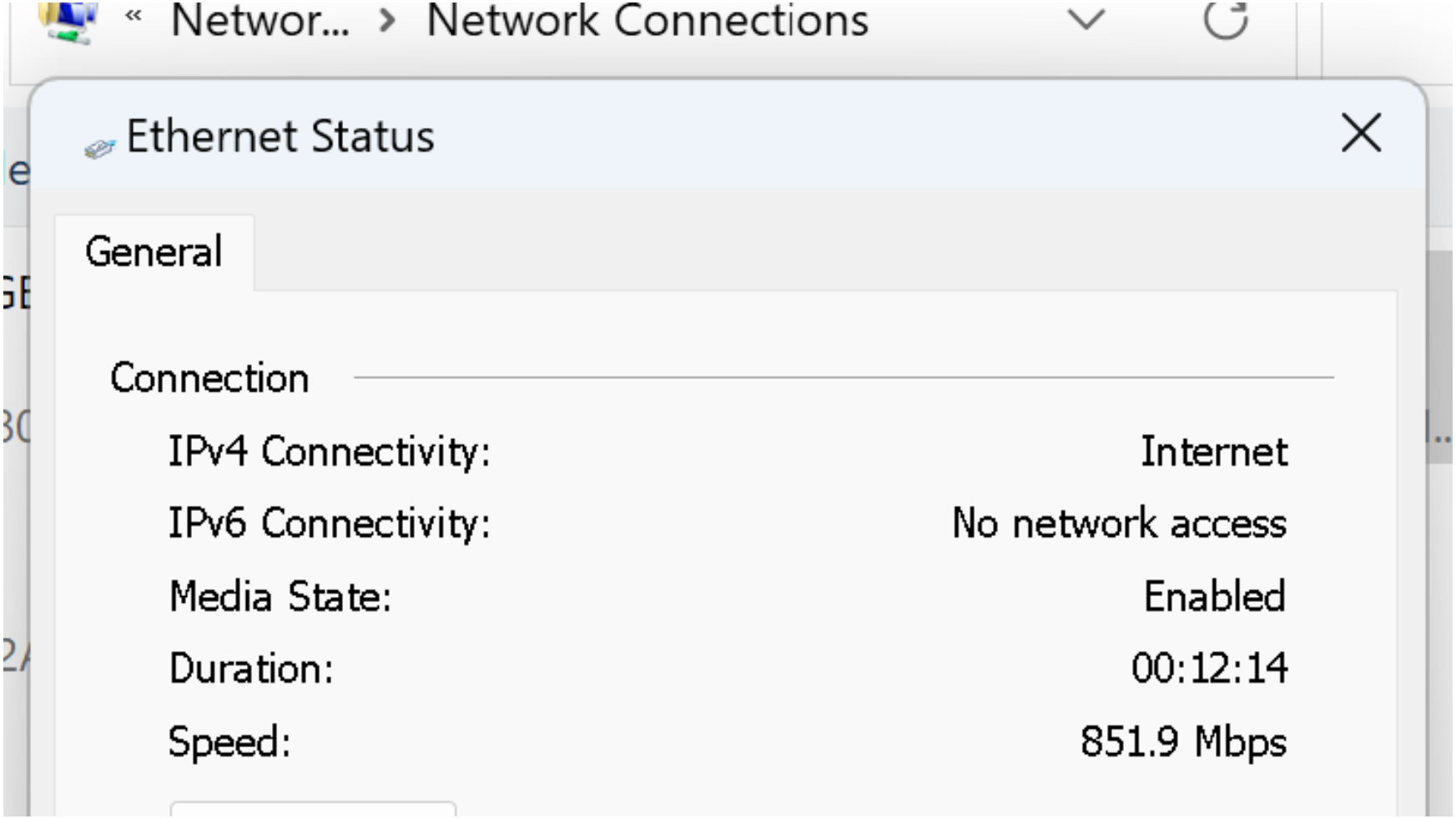
- SMALL STEP 316:
  Use the left mouse button to click on "Status" in the pop-up utility menu:


Network Connectio...
Diagnose this connection
Ethernet
Network 49
SAMS
Disable
Status
Diagn
Bridge Co ections
Create Shortcu
Delete
Rename
Properties

BIG STEP 300 (Activate the tethered Internet connection from the client device) (continued)

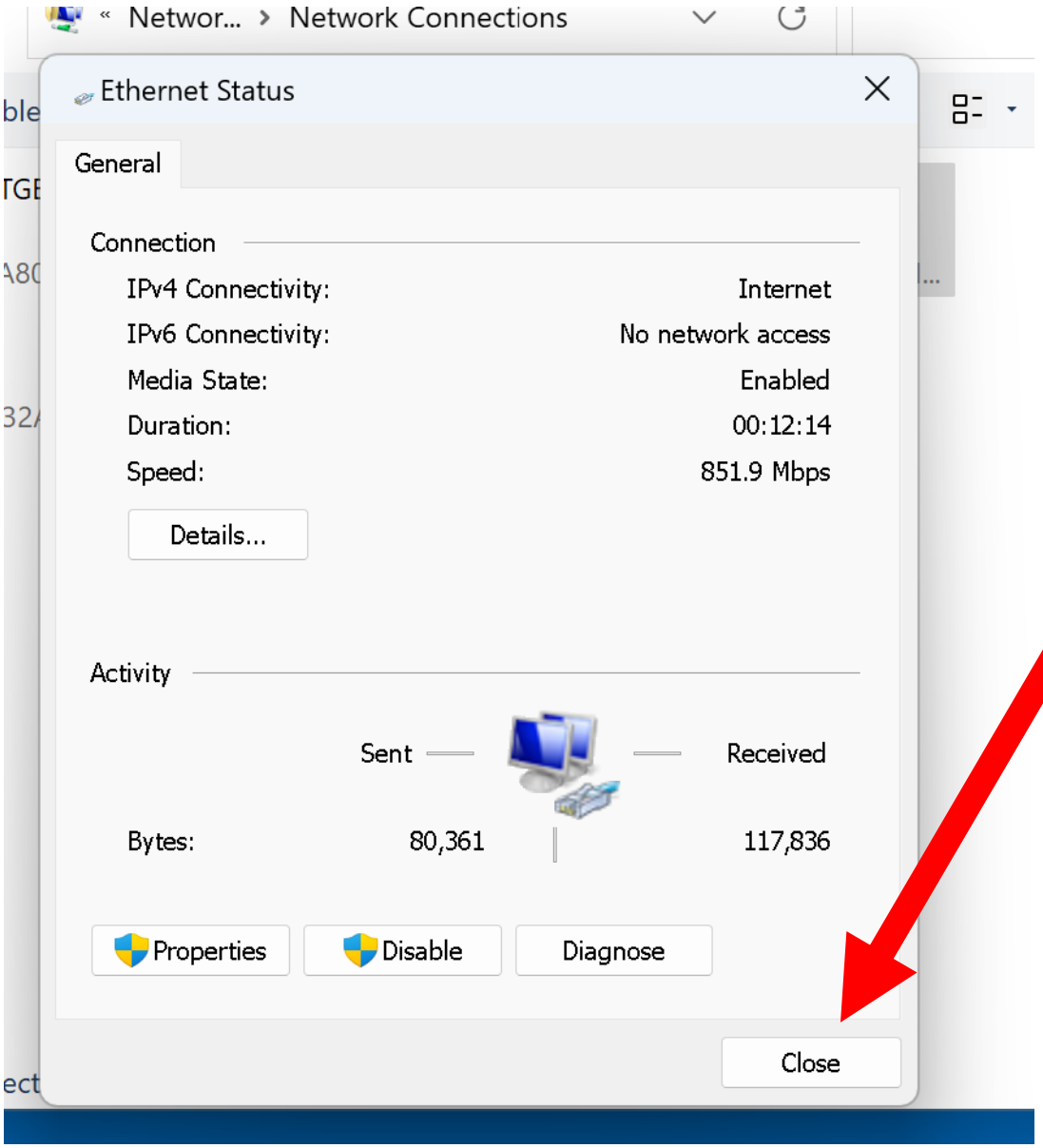
- SMALL STEP 317:
  An "Ethernet Status" box will be displayed

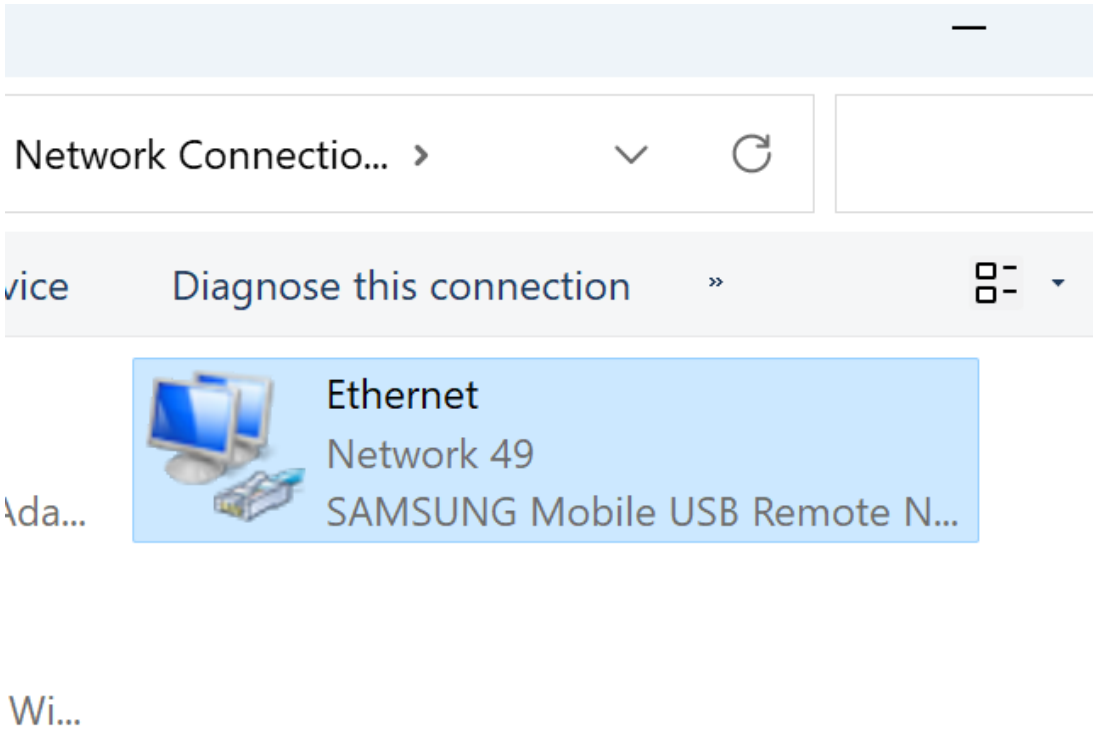

Networ... > Network Connections
Ethernet Status
General
Connection
IPv4 Connectivity: Internet
IPv6 Connectivity: No network access
Media State: Enabled
Duration: 00:12:14
Speed: 851.9 Mbps
Details...
Activity
Sent
Received
Bytes: 80,361 117,836
Properties
Disable
Diagnose
Close


« Networ... › Network Connections
Ethernet Status
General
Connection
IPv4 Connectivity: Internet
IPv6 Connectivity: No network access
Media State: Enabled
Duration: 00:12:14
Speed: 851.9 Mbps

BIG STEP 300 (Activate the tethered Internet connection from the client device) (continued)

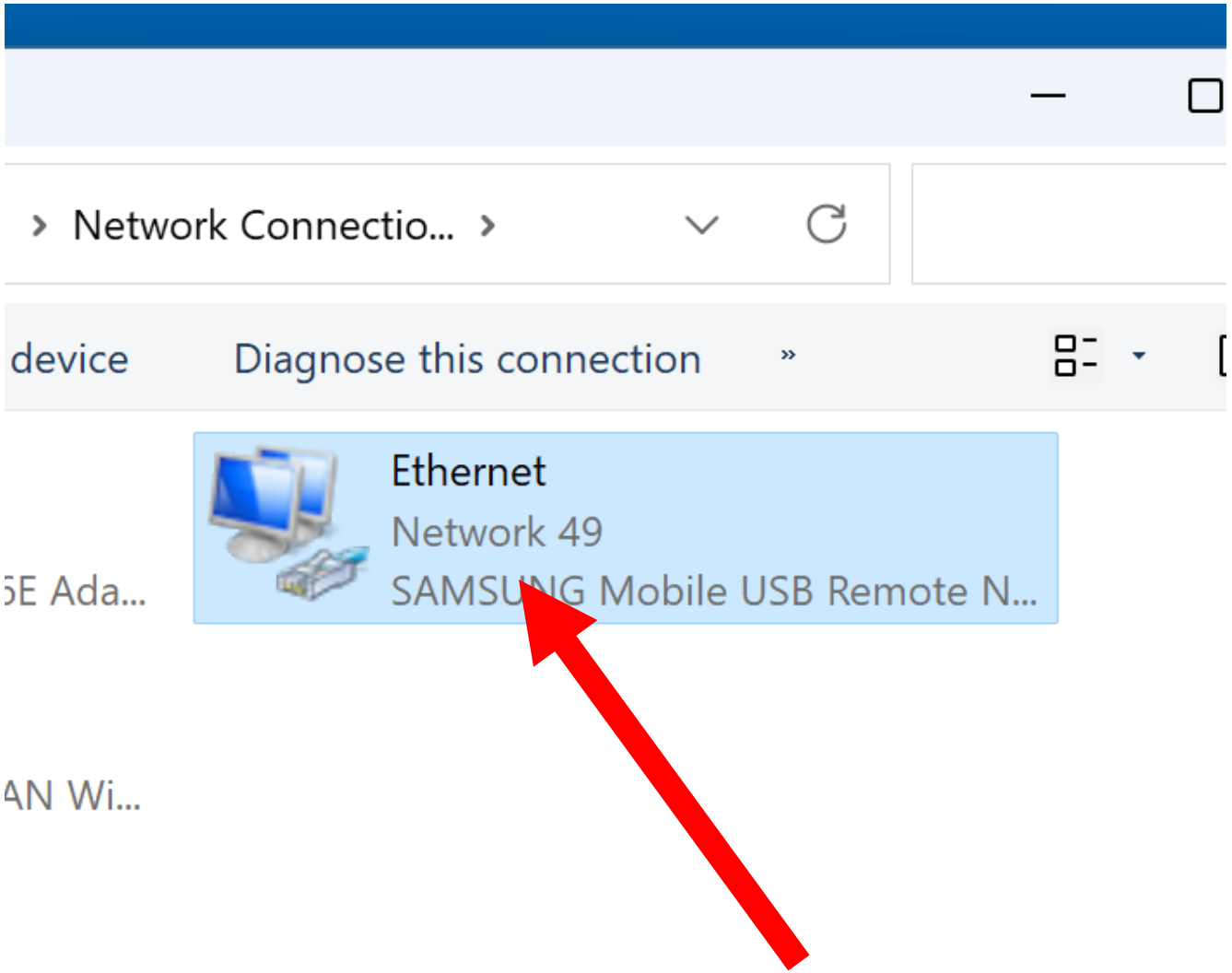
- SMALL STEP 318:
  Click on the "Close" button of the "Ethernet Status" box:


Networ... > Network Connections
Ethernet Status
General
Connection
IPv4 Connectivity: Internet
IPv6 Connectivity: No network access
Media State: Enabled
Duration: 00:12:14
Speed: 851.9 Mbps
Details...
Activity
Sent
Received
Bytes: 80,361 117,836
Properties
Disable
Diagnose
Close


Network Connectio...
vice
Diagnose this connection
Ethernet
Network 49
SAMSUNG Mobile USB Remote N...
Ada...
Wi...

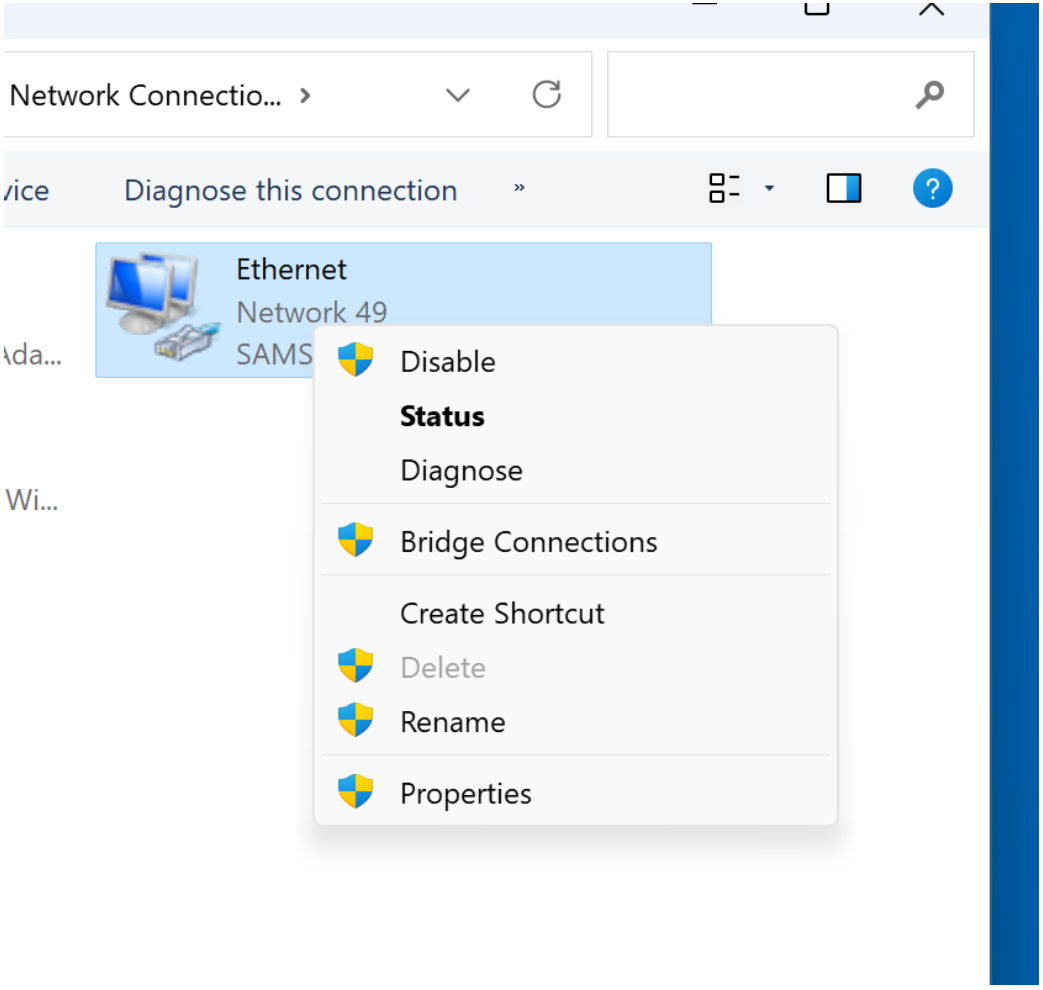
BIG STEP 300 (Activate the tethered Internet connection from the client device) (continued)

- SMALL STEP 319:
  Use the right mouse button to click on the (virtual) Ethernet adapter that is named after the brand name of the Android cell phone:


Network Connectio...
device
Diagnose this connection
Ethernet
Network 49
SAMSUNG Mobile USB Remote N...
5E Ada...
AN Wi...

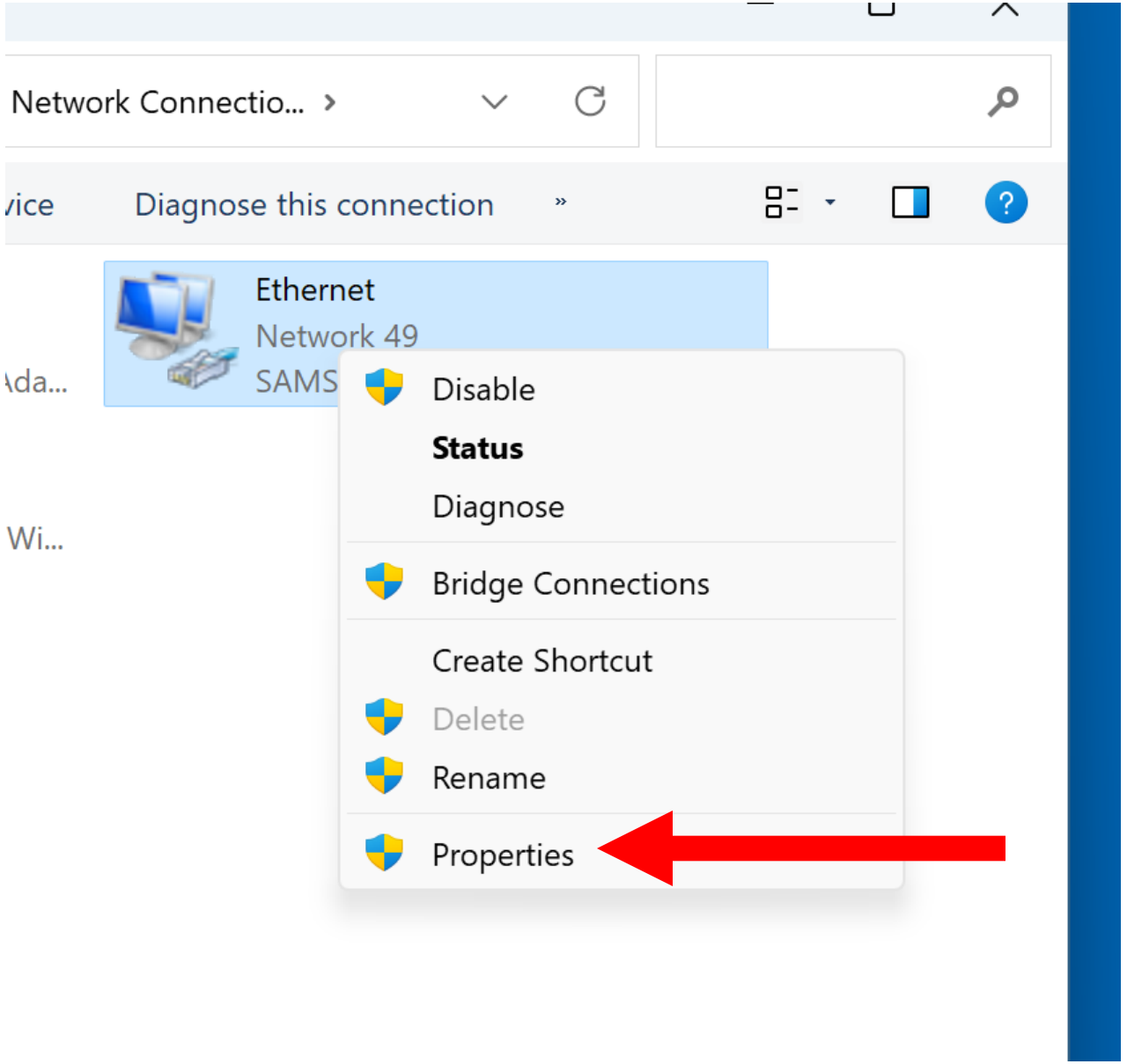
BIG STEP 300 (Activate the tethered Internet connection from the client device) (continued)

- SMALL STEP 320:
  A pop-up utility menu will be displayed:


Network Connectio...
vice
Diagnose this connection
Ethernet
Network 49
SAMS
Ada...
Wi...
Disable
Status
Diagnose
Bridge Connections
Create Shortcut
Delete
Rename
Properties

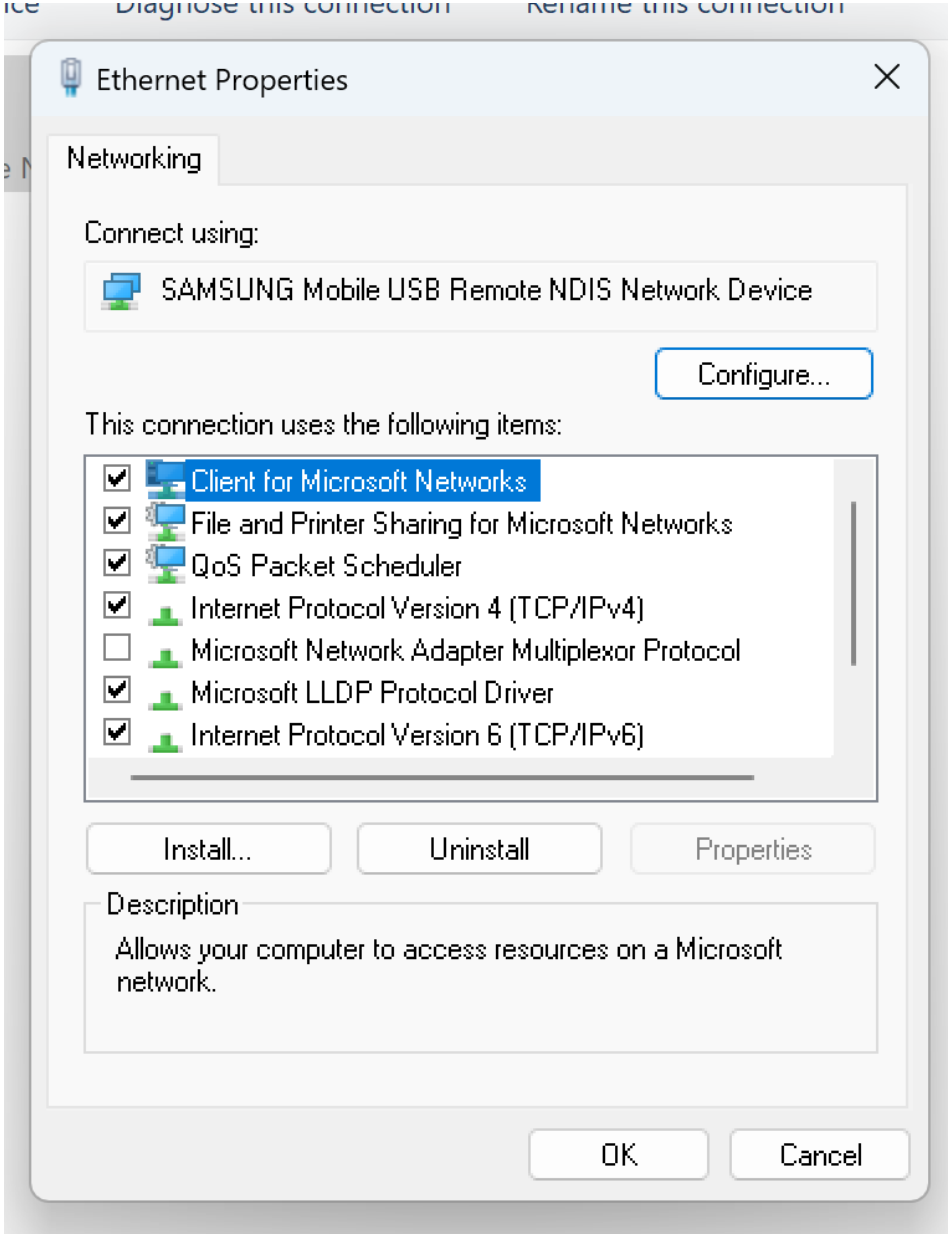
BIG STEP 300 (Activate the tethered Internet connection from the client device) (continued)

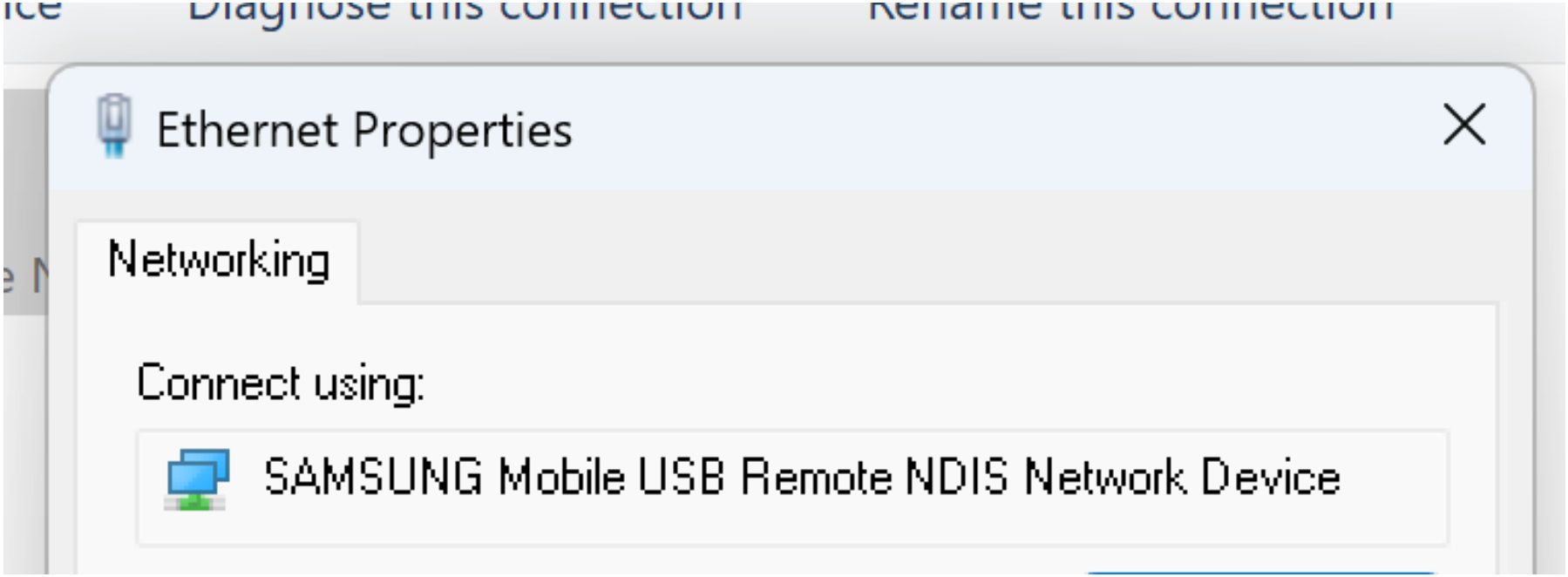
- SMALL STEP 321:
  Use the left mouse button to click on "Properties" in the pop-up utility menu:


Network Connectio...
vice
Diagnose this connection
Ethernet
Network 49
SAMS
Ada...
Wi...
Disable
Status
Diagnose
Bridge Connections
Create Shortcut
Delete
Rename
Properties

BIG STEP 300 (Activate the tethered Internet connection from the client device) (continued)

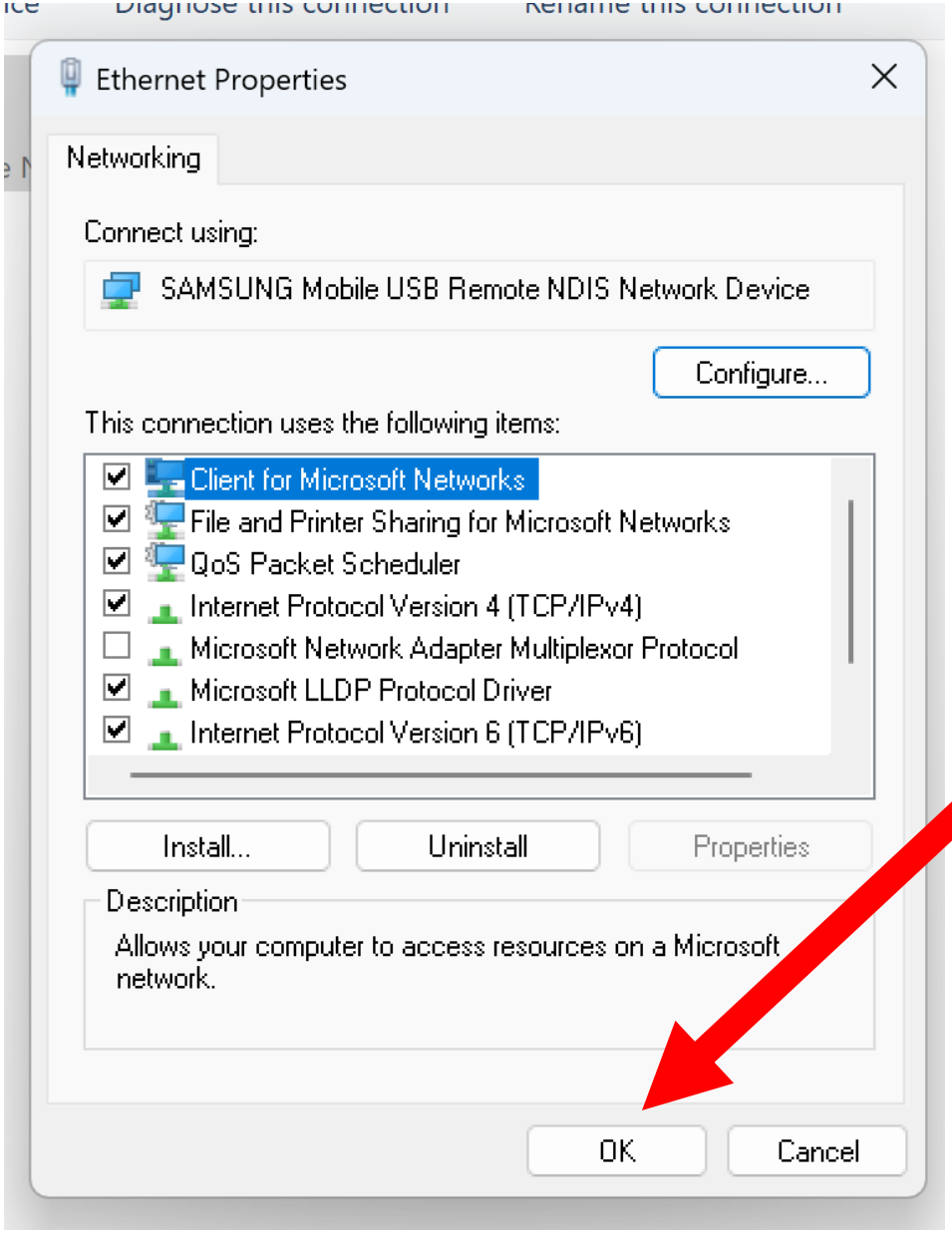
- SMALL STEP 322:
  An "Ethernet Properties" box will be displayed:


Ethernet Properties
Networking
Connect using:
SAMSUNG Mobile USB Remote NDIS Network Device
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


Diagnose this connection
Rename this connection
Ethernet Properties
Networking
Connect using:
SAMSUNG Mobile USB Remote NDIS Network Device

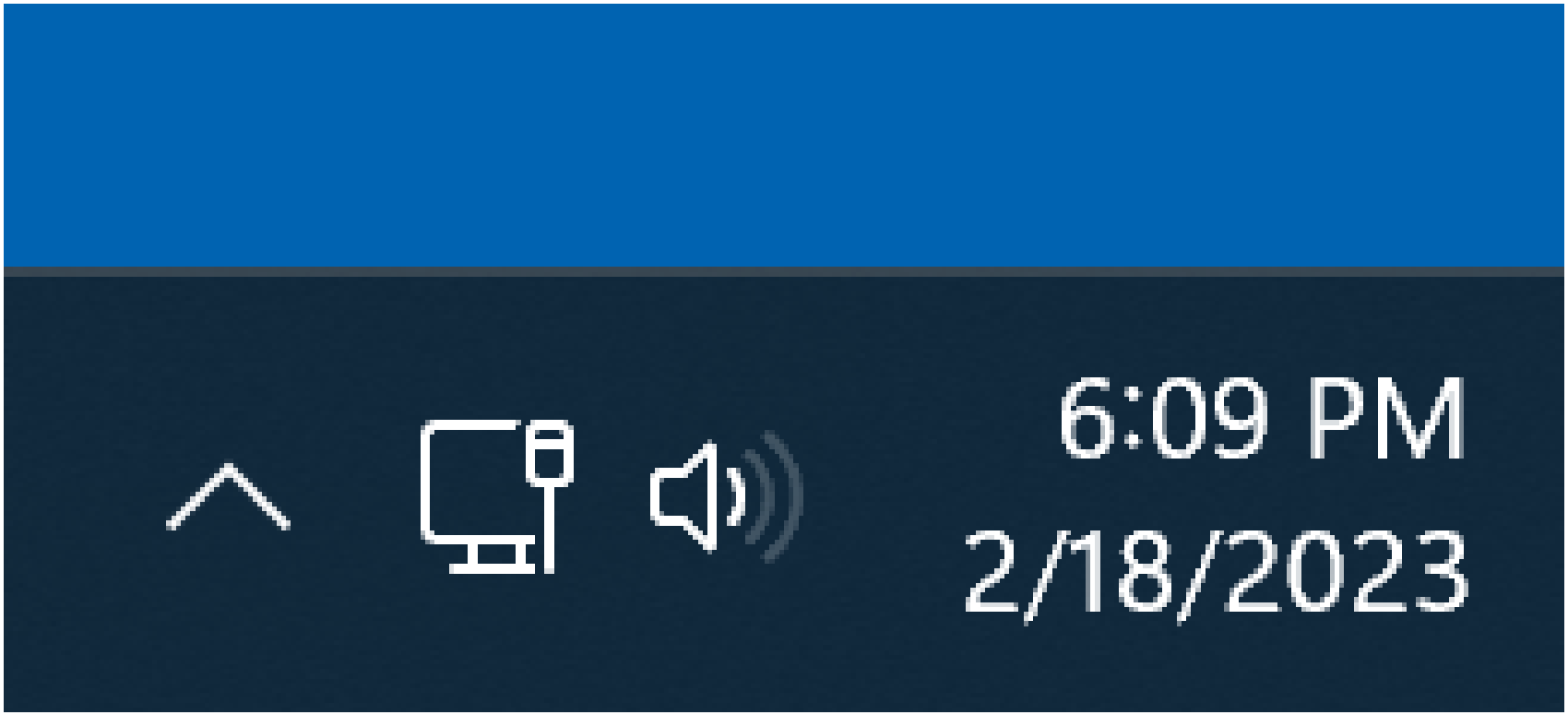
BIG STEP 300 (Activate the tethered Internet connection from the client device) (continued)

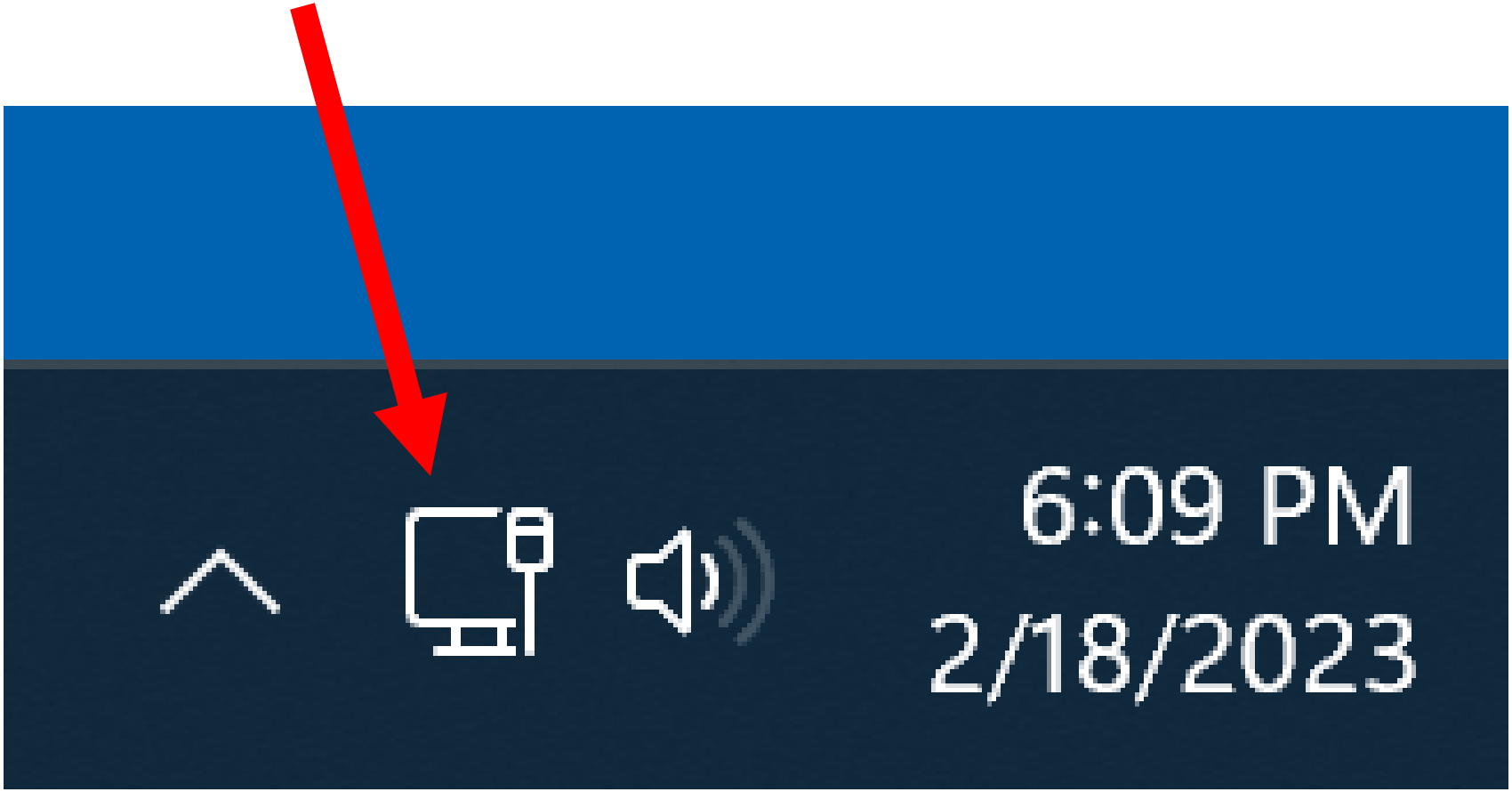
- SMALL STEP 323:
  Use the left mouse button to click on the "Okay" button of the Ethernet Properties" box:


Ethernet Properties
Networking
Connect using:
SAMSUNG Mobile USB Remote NDIS Network Device
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

BIG STEP 300 (Activate the tethered Internet connection from the client device) (continued)

- SMALL STEP 324:
  Note that the "Notification Area" in the lower-right corner of the Windows.. "Desktop" now shows that an Ethernet adapter is connected to the Windows.. computer


6:09 PM
2/18/2023

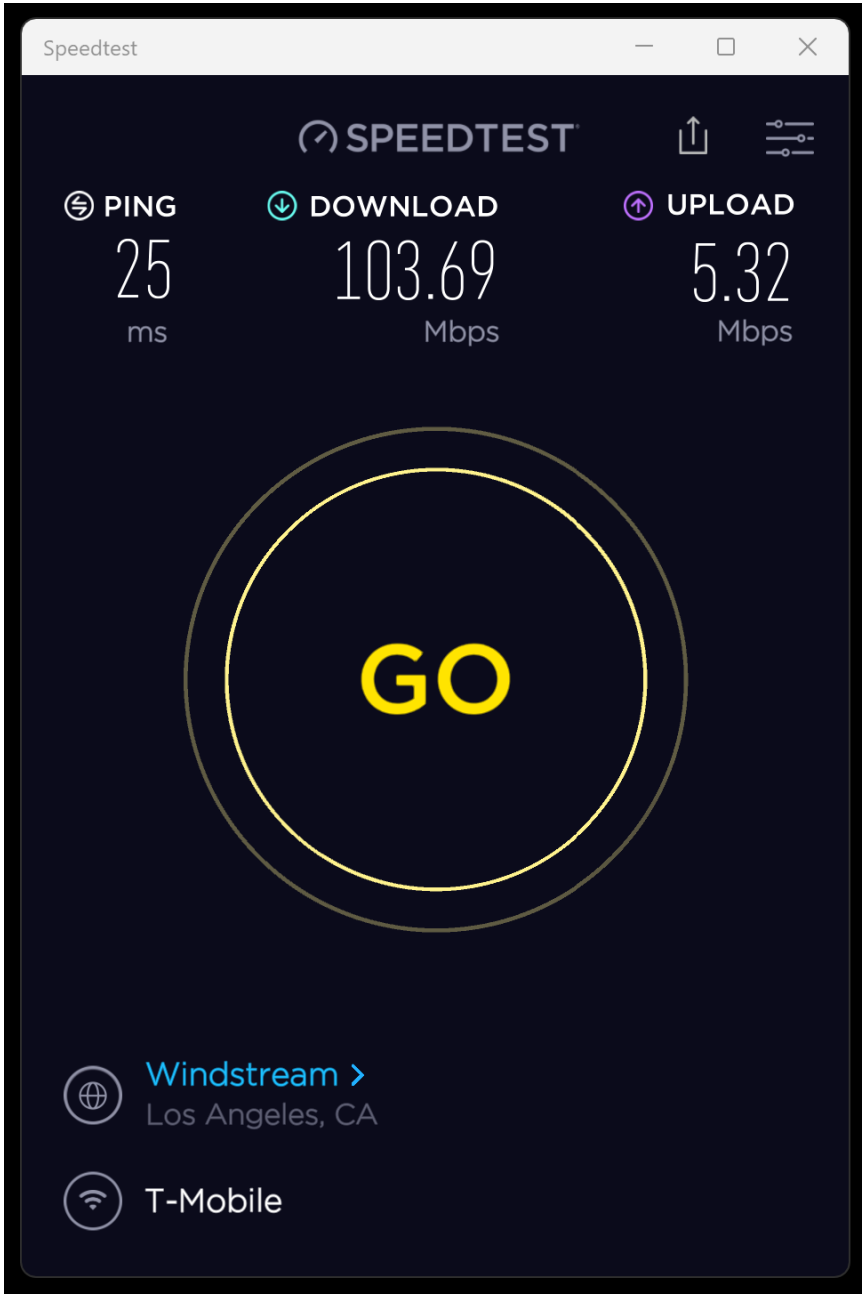

6:09 PM
2/18/2023

BIG STEP 300 (Activate the tethered Internet connection from the client device) (continued)

- SMALL STEP 325:
  Click on unused space in the Windows "Desktop" to close the list of "Wireless Access Points":

BIG STEP 300 (Activate the tethered Internet connection from the client device) (continued)

- SMALL STEP 326:
  Close the "Network Connections" window by clicking on the "x" button in the upper-right corner of the "Network Connections" window.


Speedtest
SPEEDTEST
PING
25
ms
DOWNLOAD
103.69
Mbps
UPLOAD
5.32
Mbps
GO
Windstream ›
Los Angeles, CA
T-Mobile