

8--TETHERING FROM AN ANDROID CELL PHONE WITH AN ADD-ON USB-C-ENET ADAPTER

**WHICH IS THEN CONNECTED TO A
"WINDOWS.." COMPUTER**

by Francis Chao

fchao2@yahoo.com



Web location for this
presentation:

<http://aztcs.apcug.org>

Click on

"Meeting Notes"

SUMMARY

You can use your Android cell phone and an add-on USB-C Ethernet adapter plus a Cat-x cable provide an Internet connection for a "Windows.." computer.

TOPICS

- Big Steps (for computer experts)
- Small Steps (for the rest of us)
- Additional Advice

"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~~

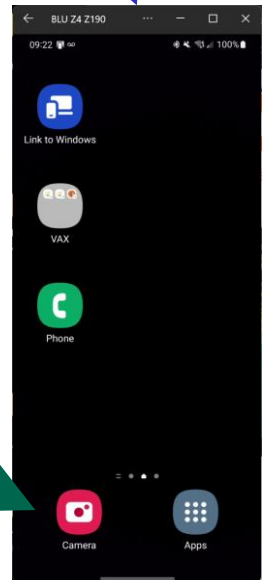
Option 4: tethering using an add-on
wired Ethernet adapter for
the cell phone

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



Option 4:

**Cell phone has a USB
wired Ethernet adapter
and a Cat 5/6/7/8 cable
added to it**



**Client device can be a computer, a tablet, or
another cell phone that has an Ethernet port or
adapter**

OPTION 4 BIG STEPS

("Option 4:" = tethering using a
"cell phone plus an USB-C
Ethernet adapter
to a Windows.. computer)

- BIG STEP 100:
Connect the Android cell phone to an
add-on USB-C Ethernet adapter
- BIG STEP 200: Use an Ethernet cable
to connect the add-on Ethernet
connector on the cell phone to an
existing Ethernet port on the computer

OPTION 4 BIG STEPS (continued)

- BIG STEP 300:
In the cell phone:
Activate "Ethernet tethering" or
"Ethernet adapter tethering".

OPTION 4 BIG STEPS (continued)

- **BIG STEP 400:**
From inside the client device, enable the existing Ethernet adapter that is connected to the cell phone

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

SMALL STEP 101:

For most Android cell phones, attach an the add-on USB-C Ethernet adapter.

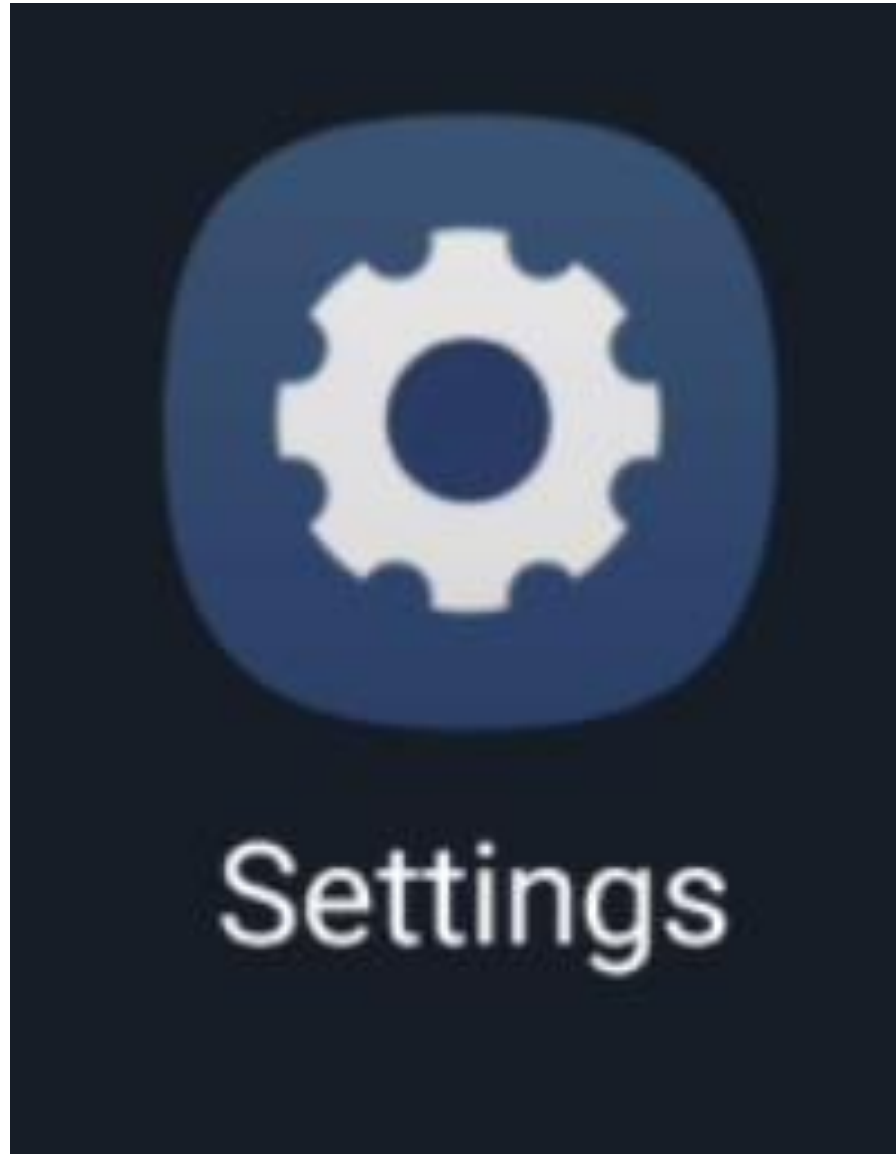
For some older or less-expensive cell phones, you will need Ethernet adapter with a micro-USB pigtail cable.

BIG STEP 200 DETAILS (Use an Ethernet cable to connect the add-on Ethernet connector on the cell phone to an existing Ethernet port on the computer)

SMALL STEP 201:

use a Ethernet cable to connect the add-on USB-C Ethernet adapter on the cell phone to an existing Ethernet adapter that is attached to or belongs to the "Windows.." computer.

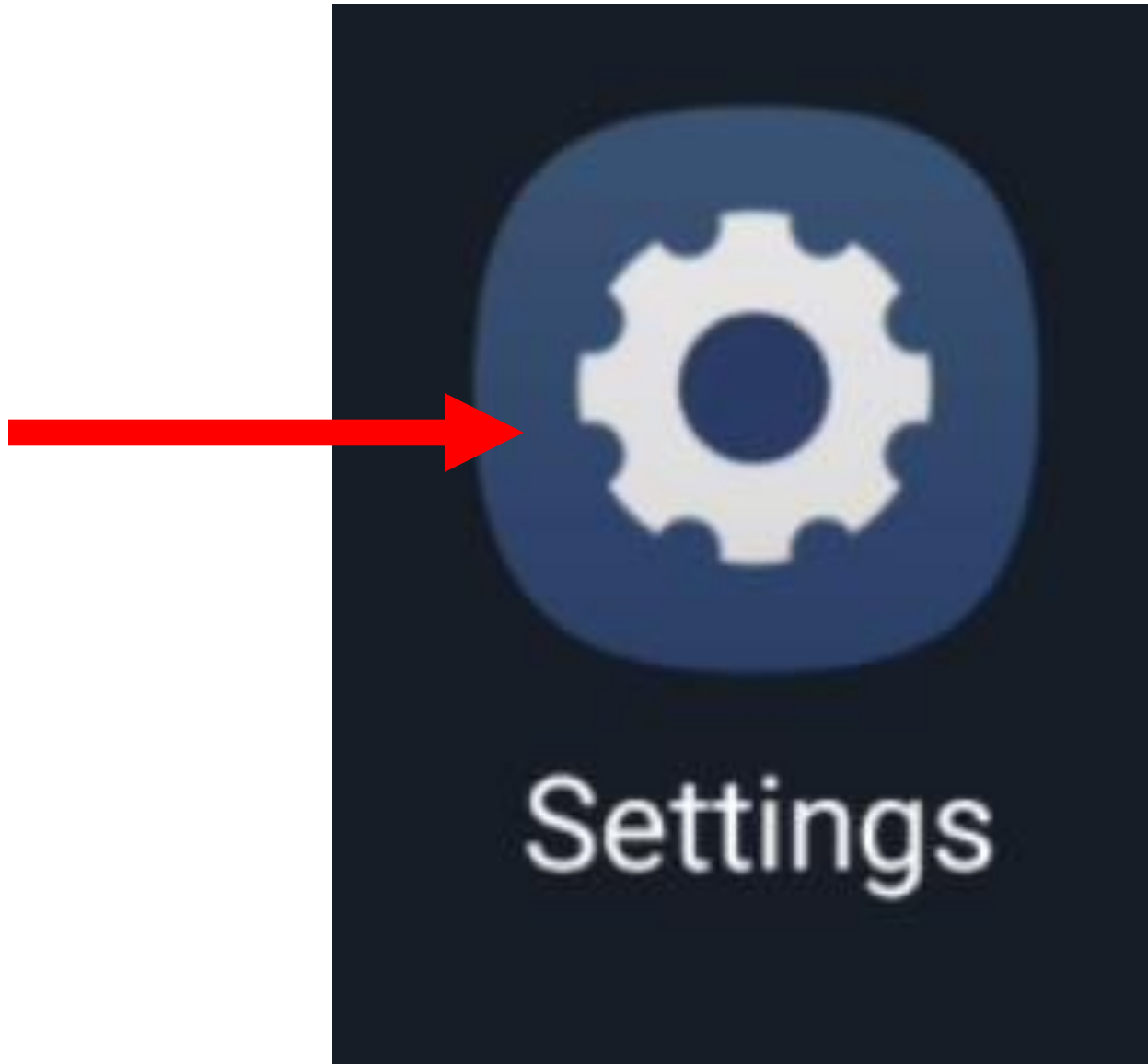
You might have to add a USB ethernet dongle to the computer.



BIG STEP 300 DETAILS (Activate "USB tether" in the "Settings" app of the Android cell phone) (

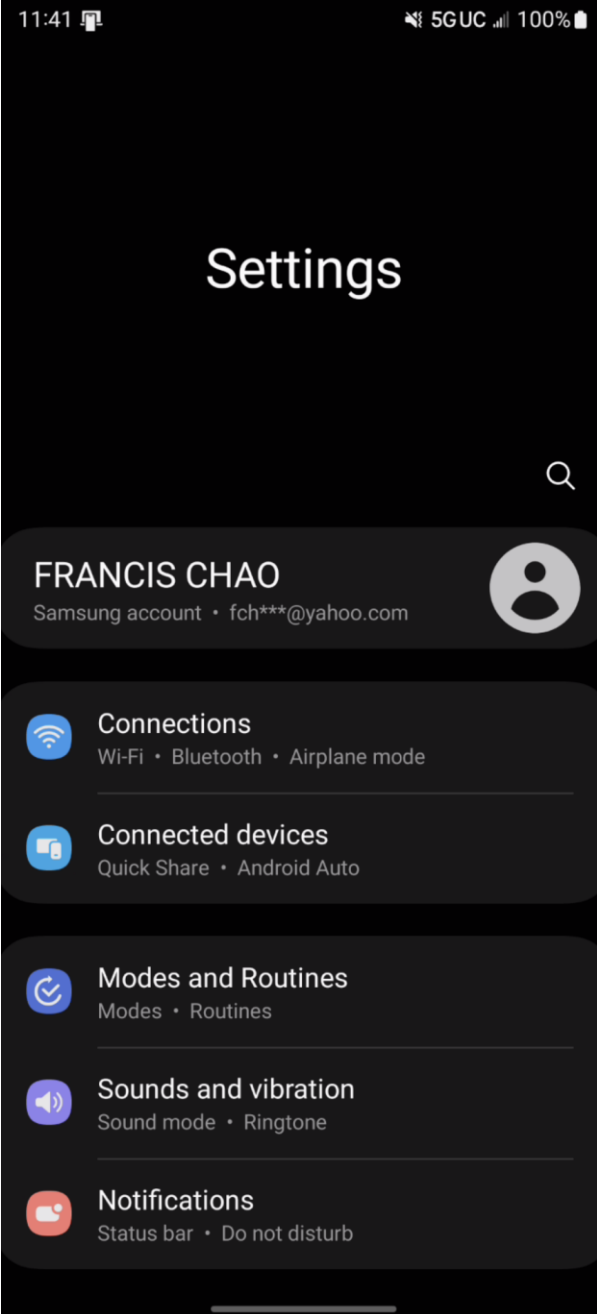
SMALL STEP 301:

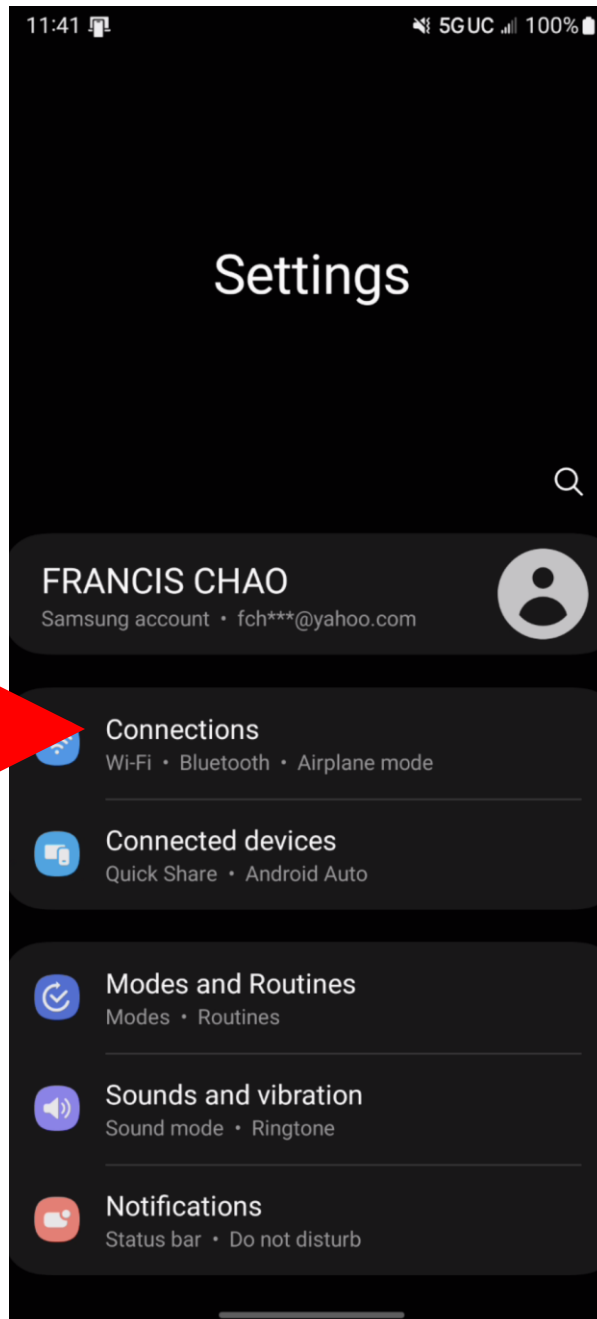
Tap on the "Settings" icon in the cell phone:



BIG STEP 300 DETAILS (Activate "USB tether" in the "Settings" app of the Android cell phone) (continued)

**SMALL STEP 302:
Tap on "Connections":**

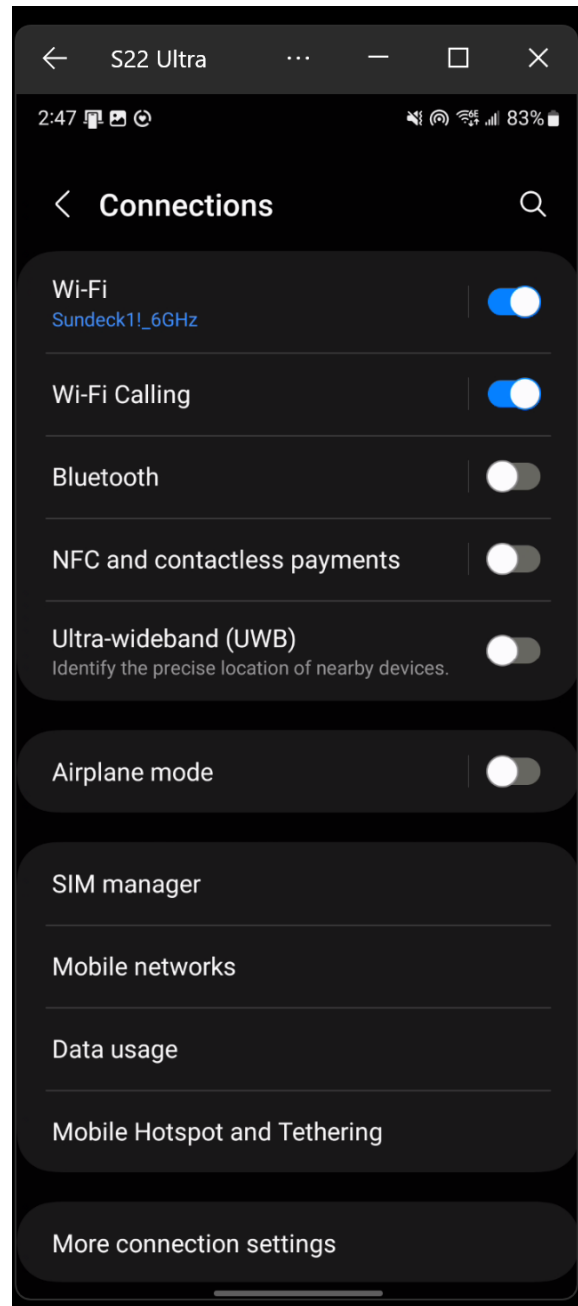


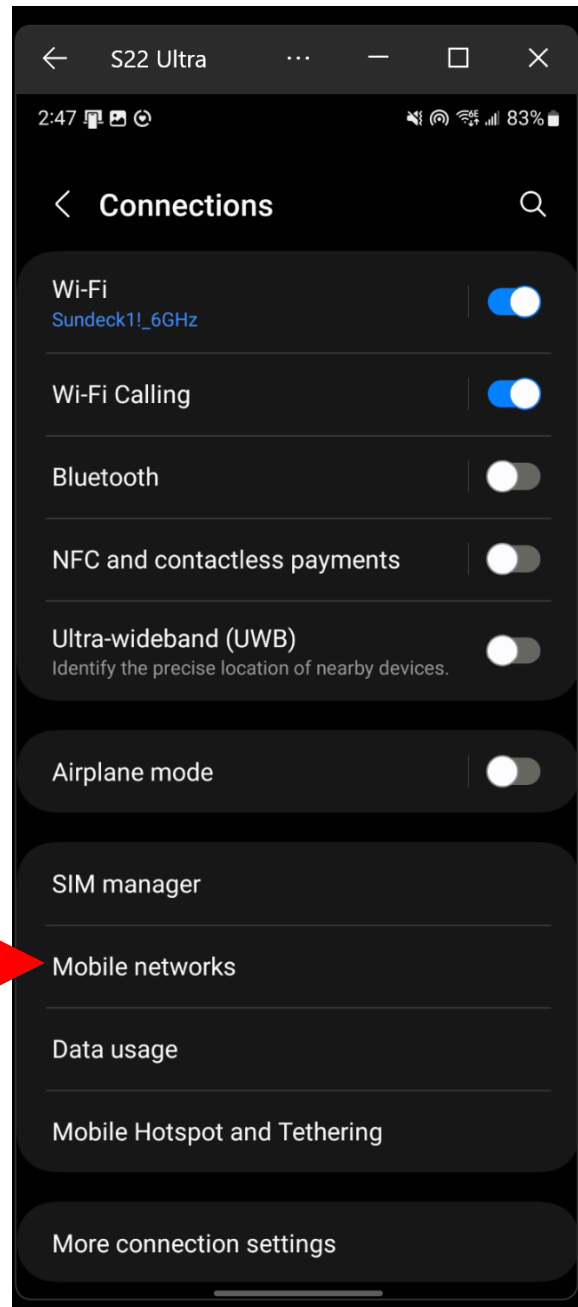


BIG STEP 300 DETAILS (Activate "USB tether" in the "Settings" app of the Android cell phone) (continued)

SMALL STEP 303:

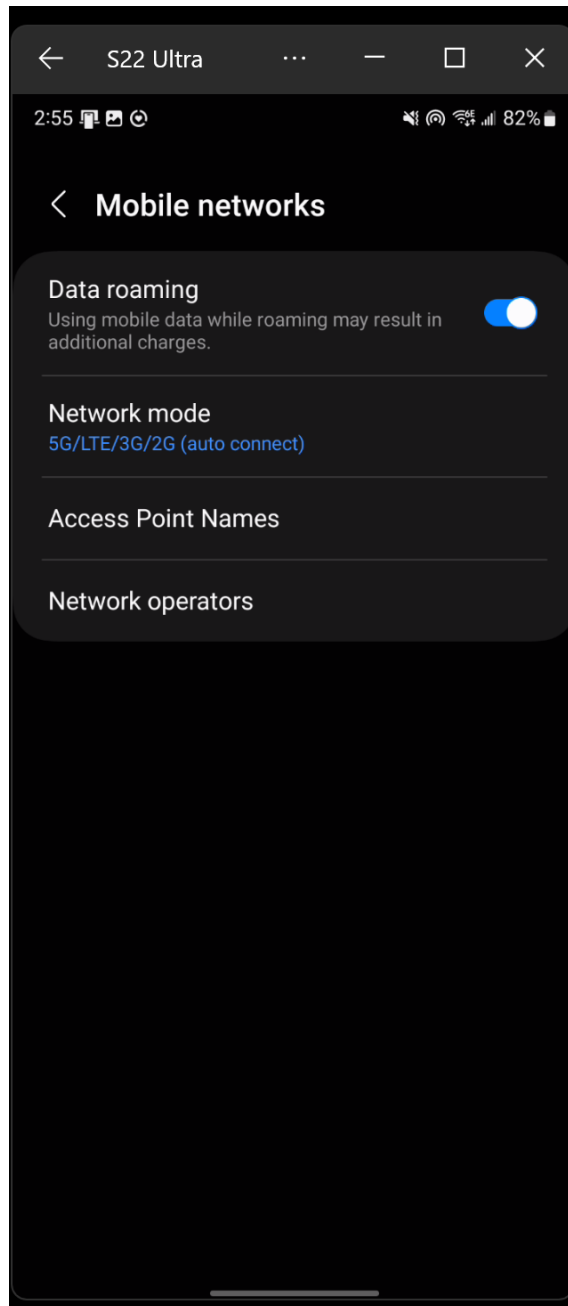
Tap on "Mobile networks":

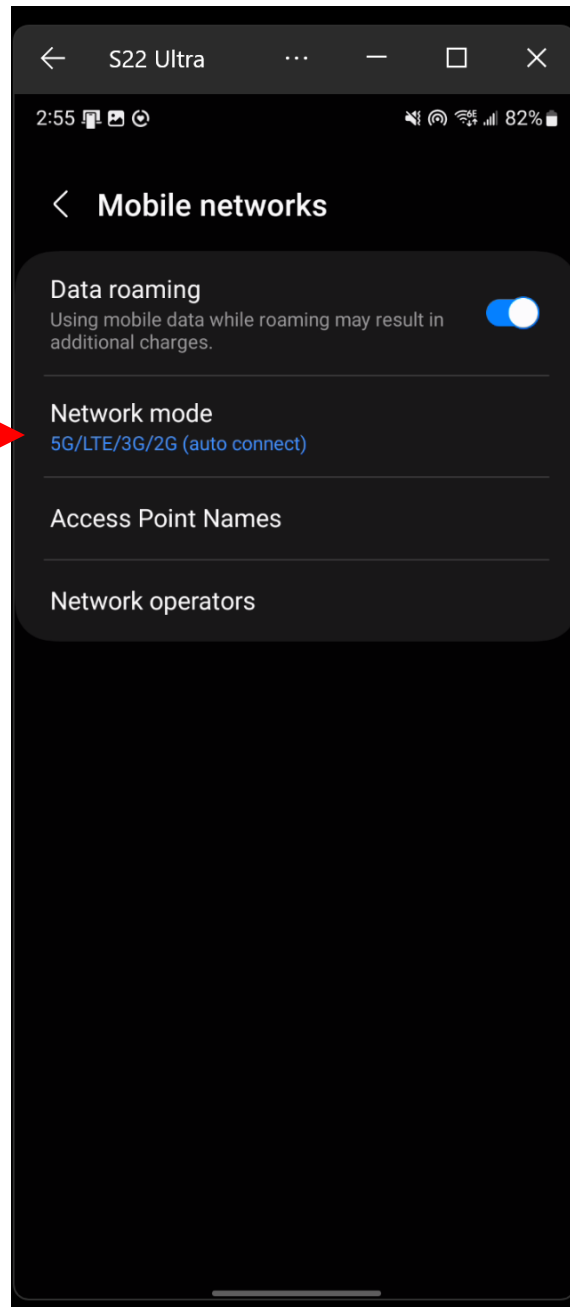




**BIG STEP 300 DETAILS (Activate "USB tether"
in the "Settings" app of the Android cell phone)
(continued)**

**SMALL STEP 304:
Tap on "Network mode".**

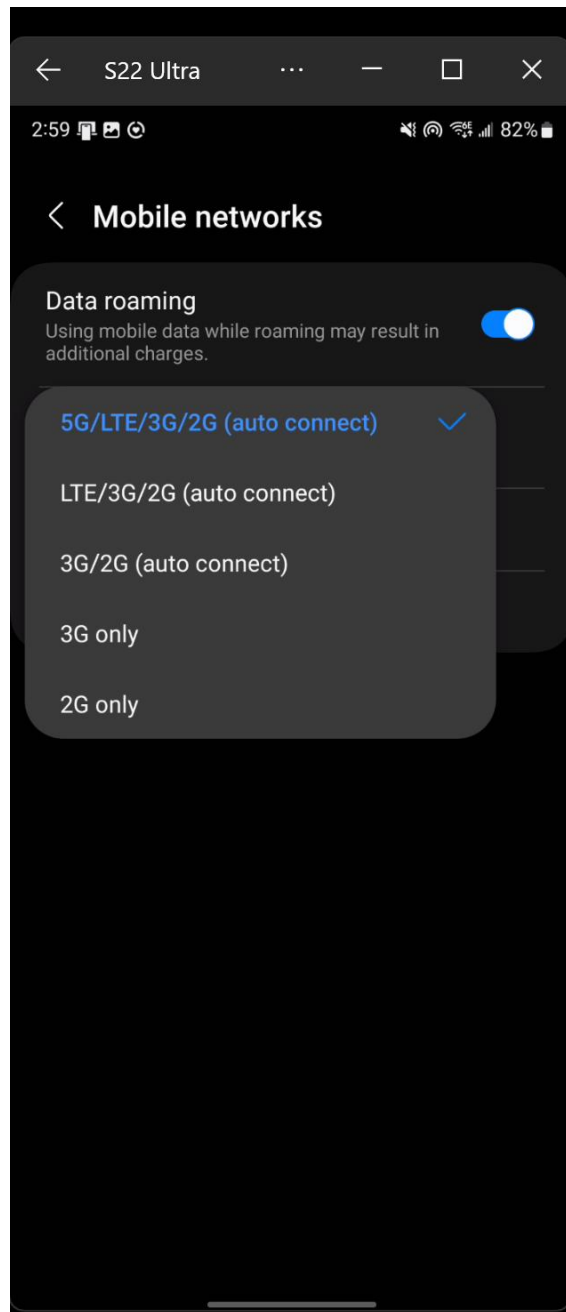


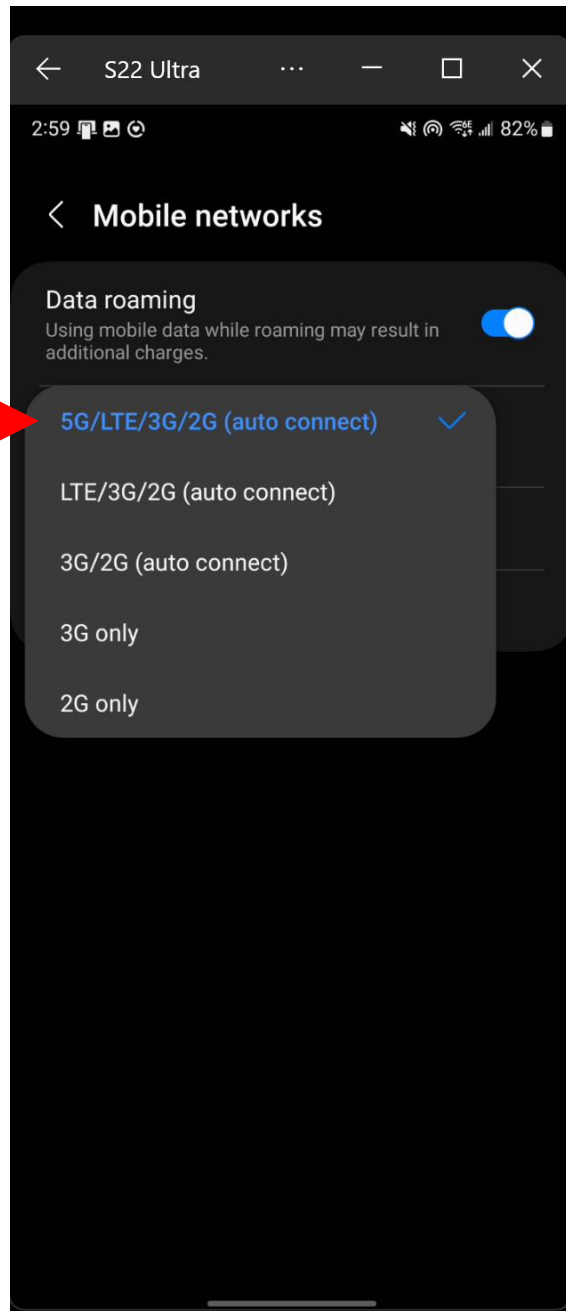


BIG STEP 300 DETAILS (Activate "USB tether" in the "Settings" app of the Android cell phone) (continued)

SMALL STEP 305:

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

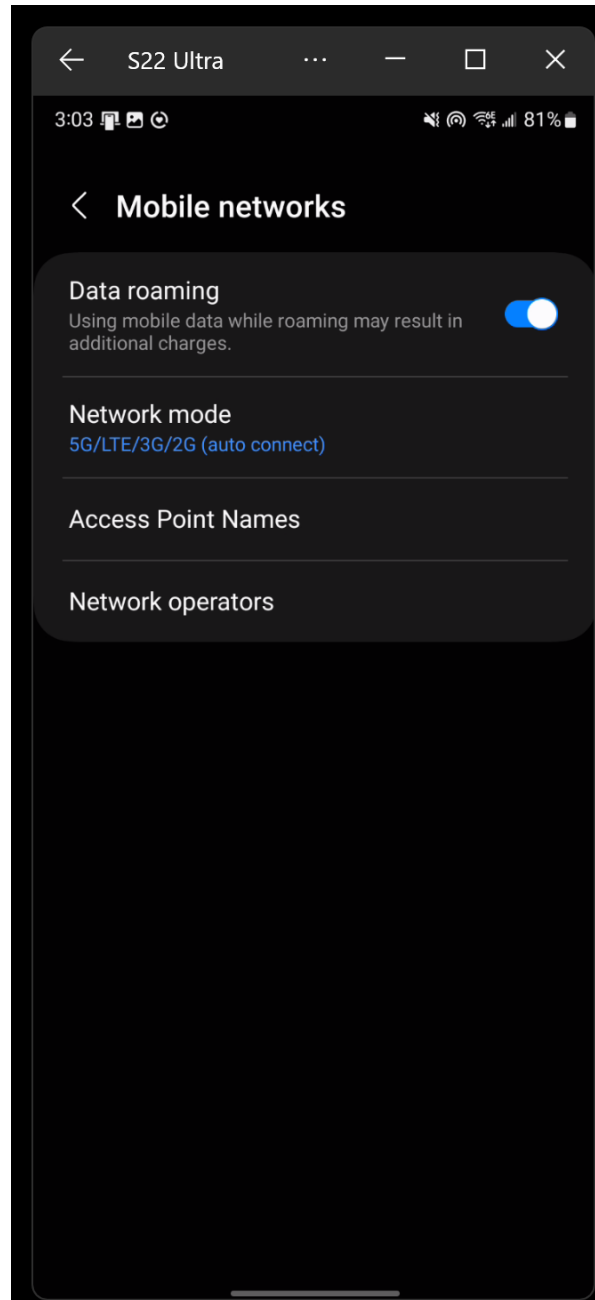


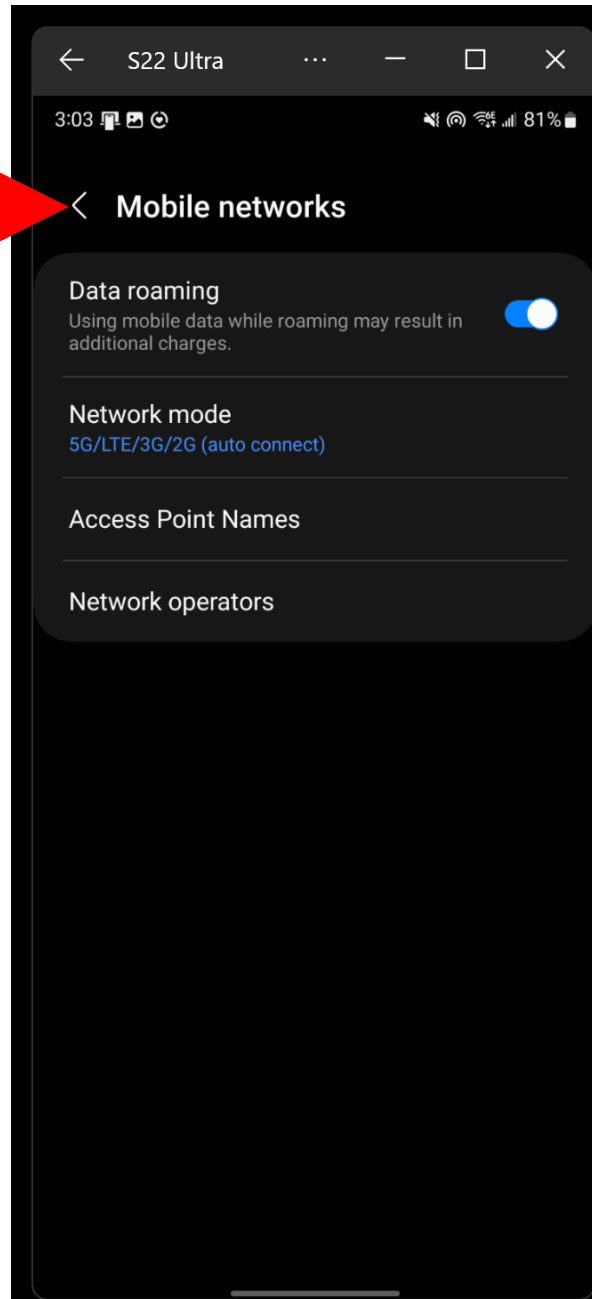


BIG STEP 300 DETAILS (Activate "USB tether" in the "Settings" app of the Android cell phone) (continued)

SMALL STEP 306:

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

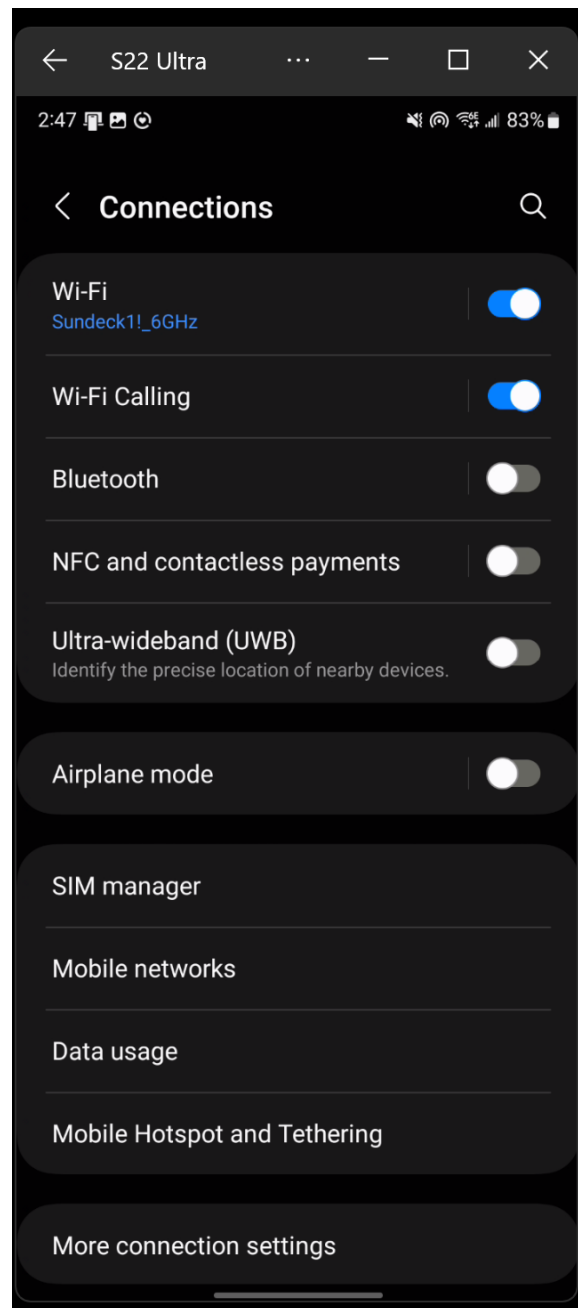


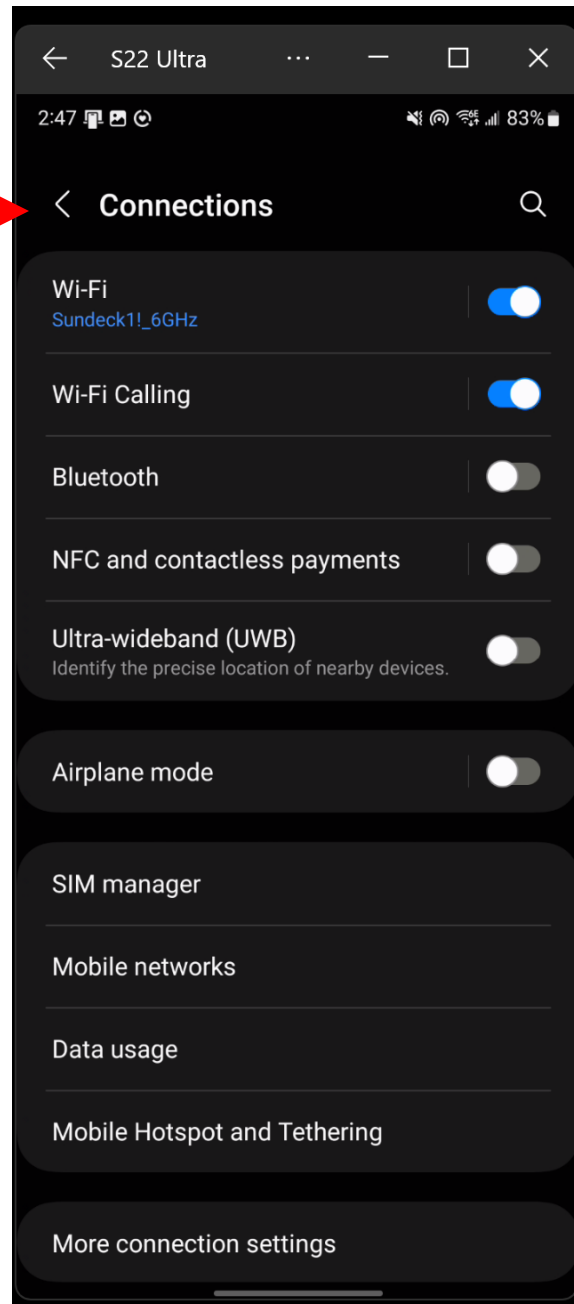


BIG STEP 300 DETAILS (Activate "USB tether" in the "Settings" app of the Android cell phone) (continued)

SMALL STEP 307:

Tap on the "<" to the left of "Connections"



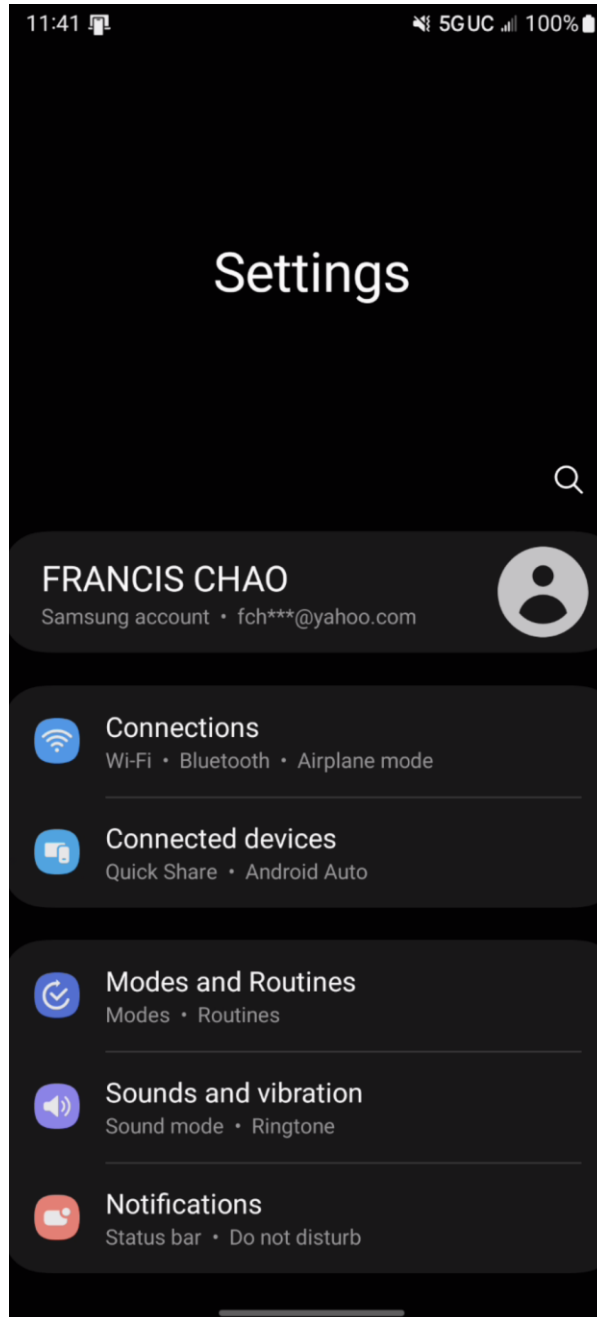


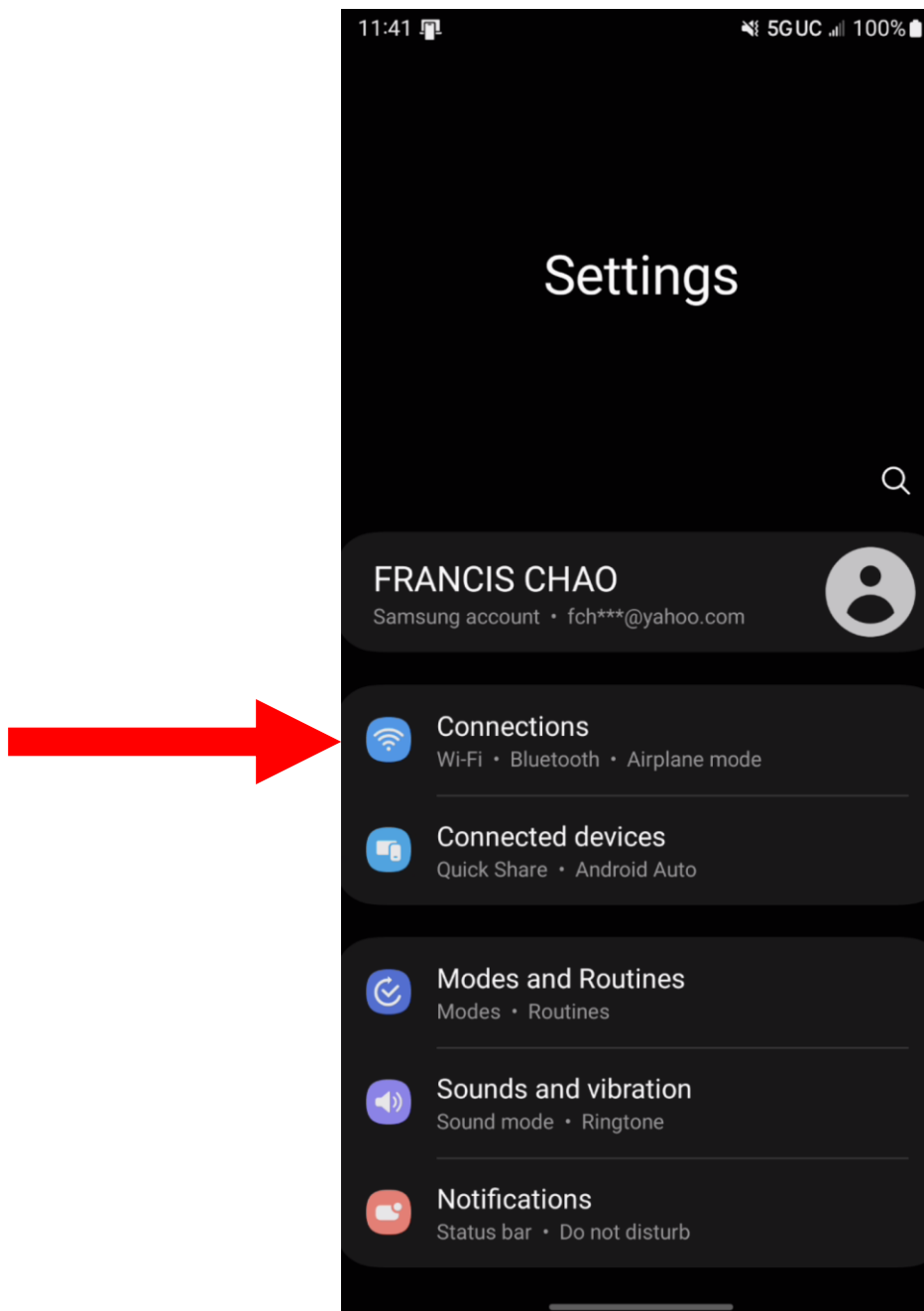
BIG STEP 300 DETAILS (Activate "USB tether" in the "Settings" app of the Android cell phone) (continued)

SMALL STEP 308:

You should now be back at the top-most level of the "Settings" app in the Android cell phone.

Tap on "Connections":

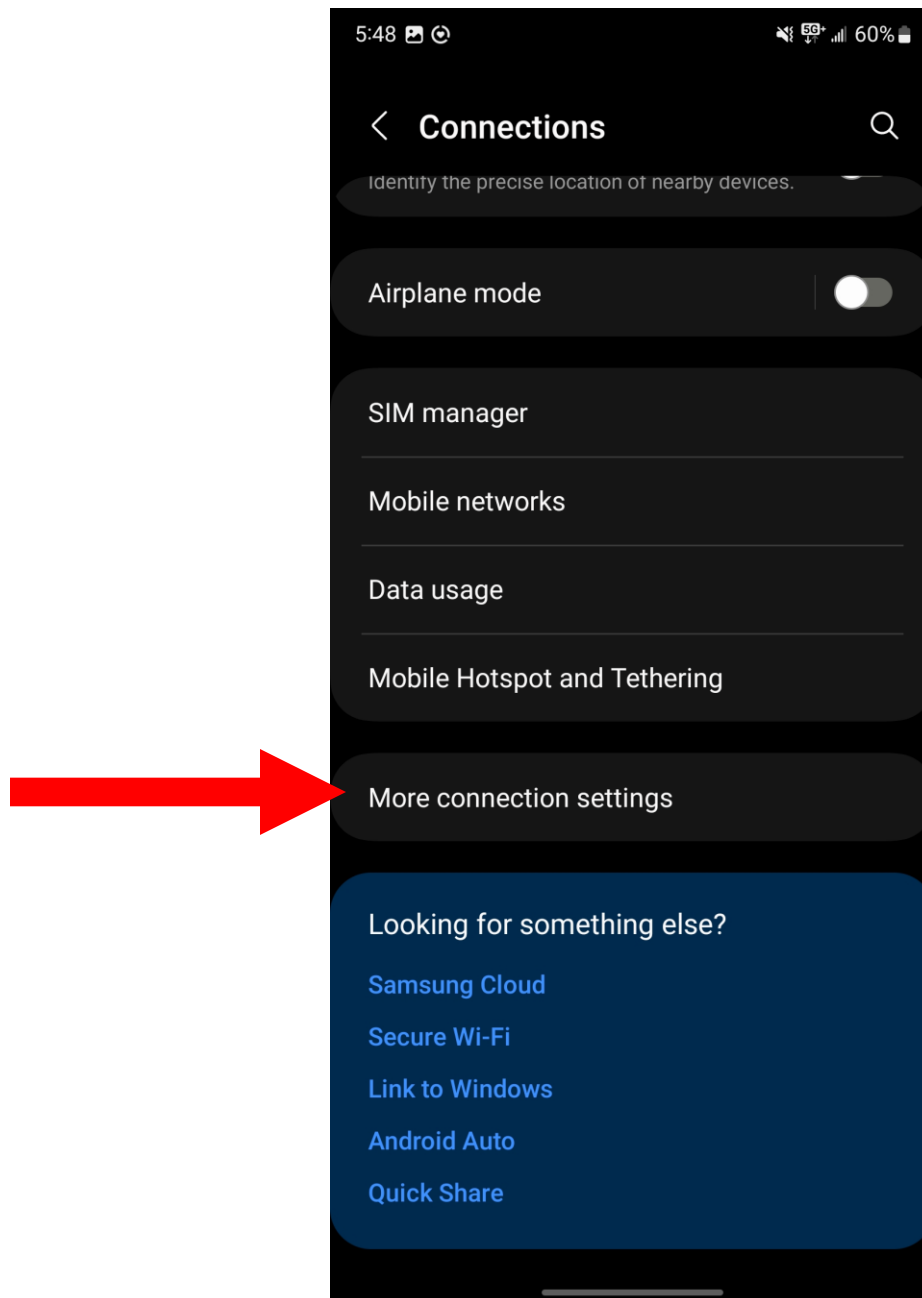




BIG STEP 300 DETAILS (Activate "USB tether" in the "Settings" app of the cell phone)
(continued)

SMALL STEP 309:

Scroll vertically downward by swiping upward until you reach "More connection settings":

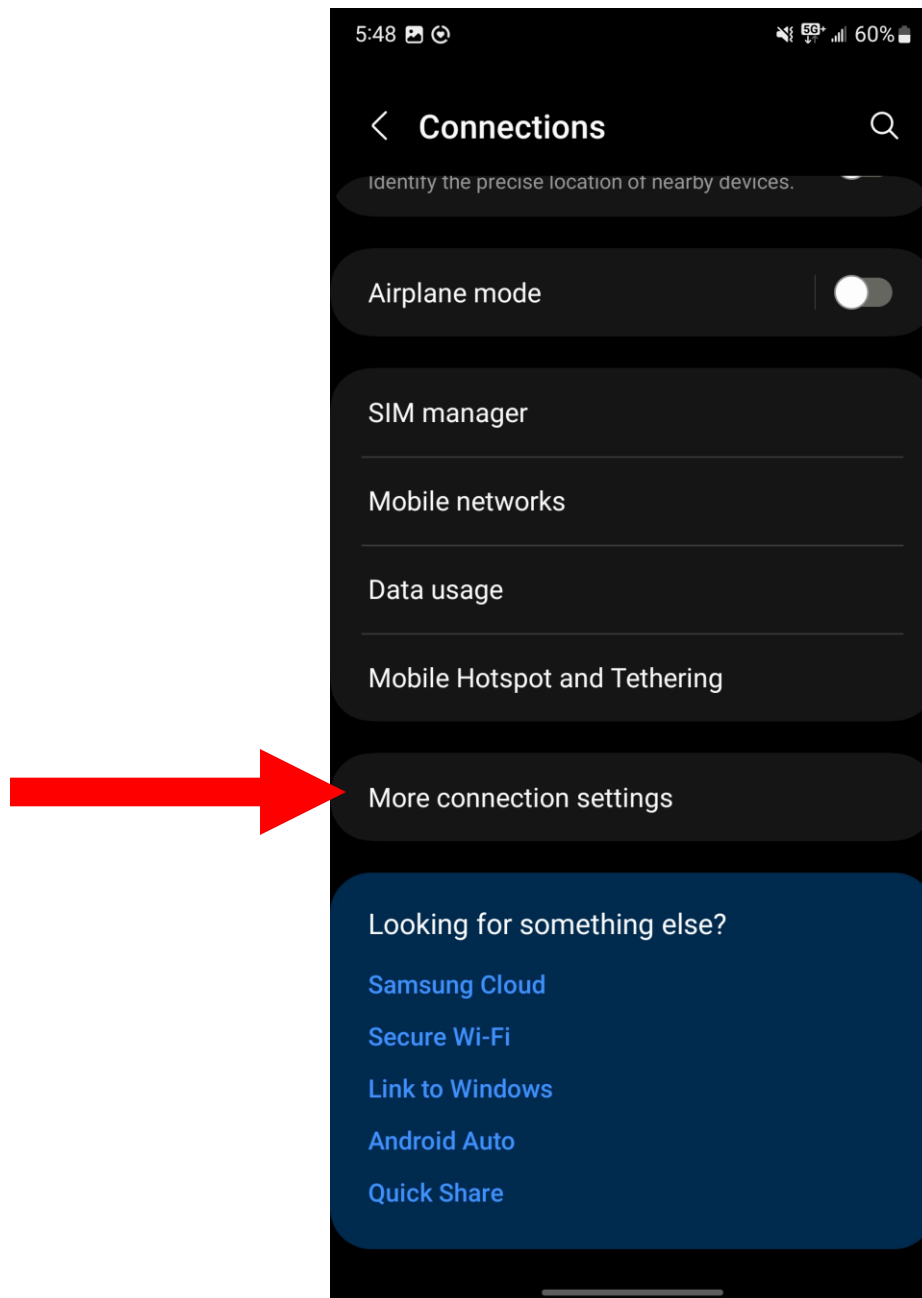


BIG STEP 300 DETAILS (Activate "USB tether" in the "Settings" app of the cell phone)
(continued)

SMALL STEP 310:

Tap on

"More connection settings":



BIG STEP 300 DETAILS (Activate "USB tether" in the "Settings" app of the cell phone)
(continued)

SMALL STEP 311:

Tap on

"Ethernet":

< More connection settings

Nearby device scanning



Printing

VPN

None

Private DNS

Automatic

Ethernet

< More connection settings

Nearby device scanning



Printing

VPN

None

Private DNS

Automatic

Ethernet



BIG STEP 300 DETAILS (Activate "USB tether" in the "Settings" app of the cell phone)
(continued)

SMALL STEP 312:

Tap on

Enable "Ethernet":

< Ethernet

Ethernet

Connect to Ethernet network.



Configure Ethernet device

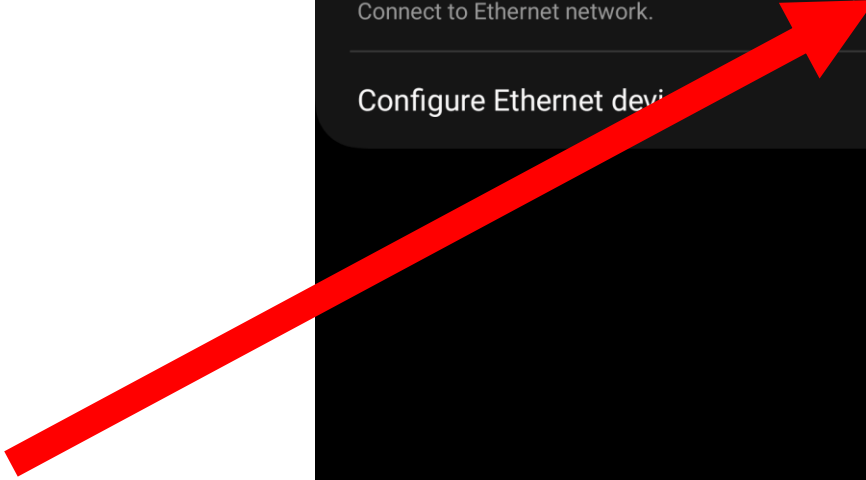
< Ethernet

Ethernet

Connect to Ethernet network.



Configure Ethernet device



BIG STEP 300 DETAILS (Activate "USB tether" in the "Settings" app of the cell phone)
(continued)

SMALL STEP 313:

Tap on

"<" to the left of Ethernet:

< Ethernet

Ethernet

Connected



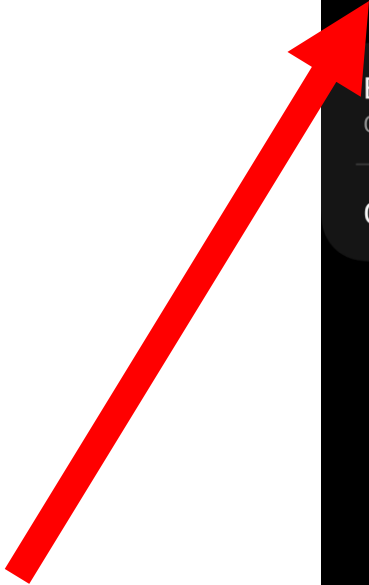
Configure Ethernet device

< Ethernet

Ethernet
Connected



Configure Ethernet device



BIG STEP 300 DETAILS (Activate "USB tether" in the "Settings" app of the cell phone)
(continued)

SMALL STEP 314:

Tap on

"<" to the left of

"More connection settings":

< More connection settings

Nearby device scanning



Printing

VPN

None

Private DNS

Automatic

Ethernet



< More connection settings

Nearby device scanning



Printing

VPN

None

Private DNS

Automatic

Ethernet

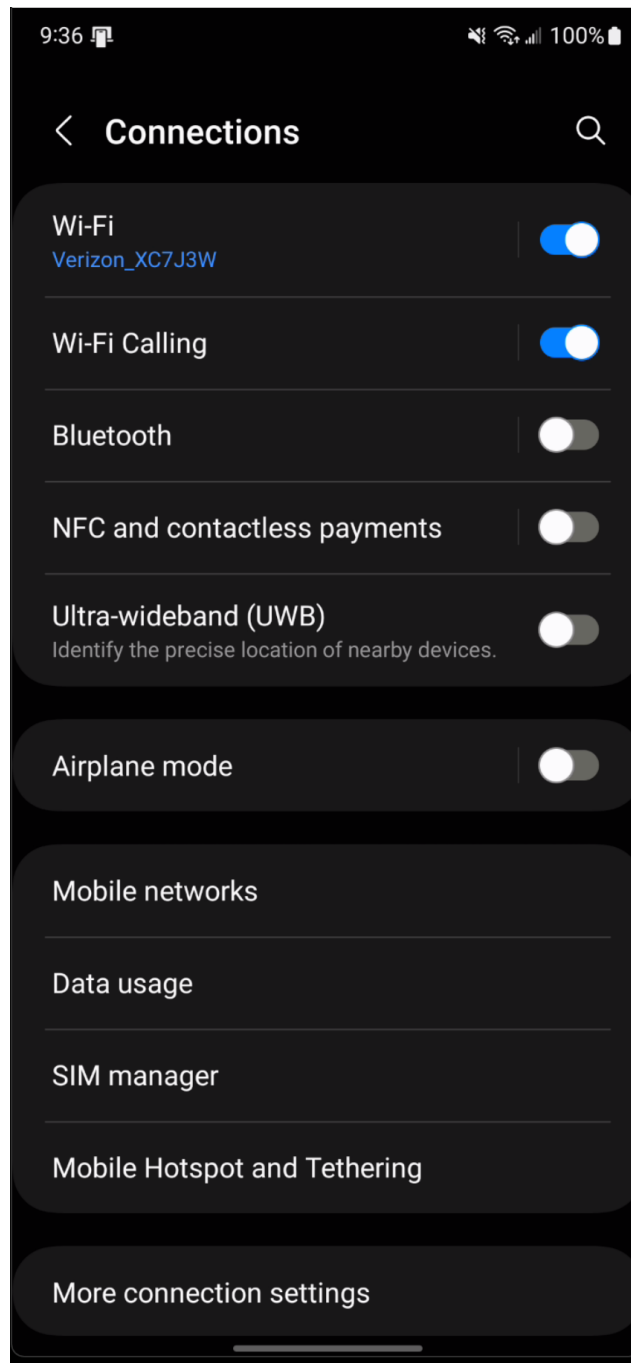


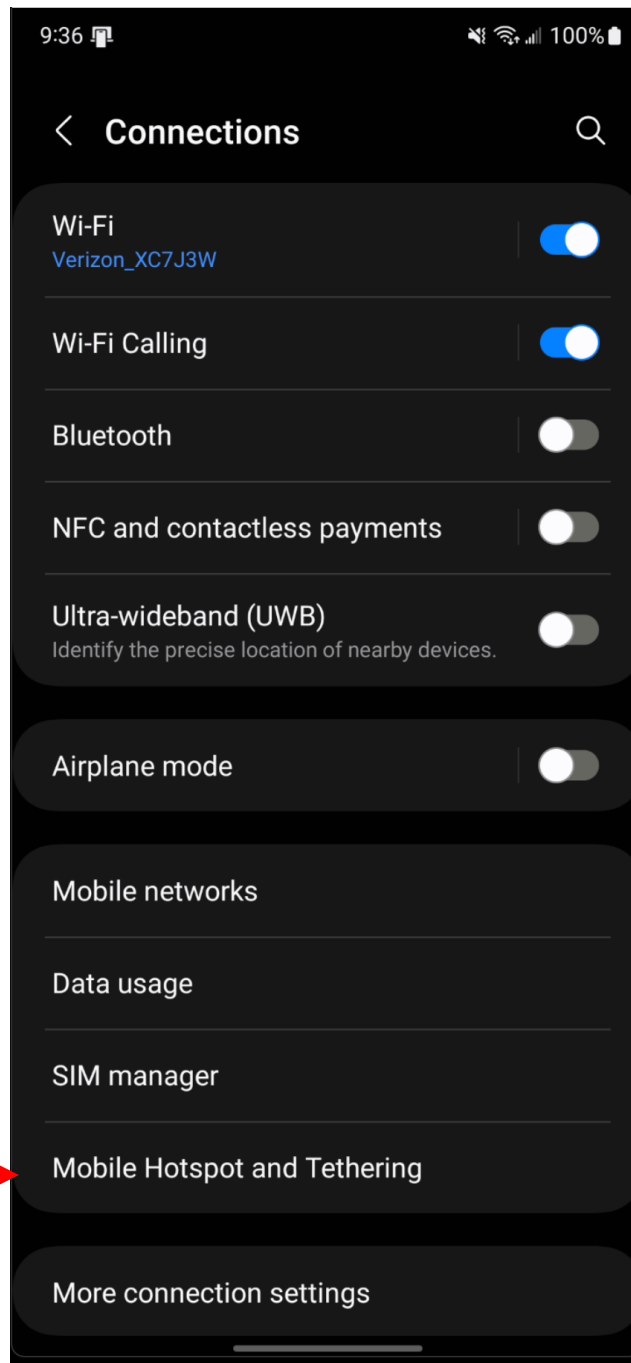
BIG STEP 300 DETAILS (Activate "USB tether" in the "Settings" app of the cell phone)
(continued)

SMALL STEP 315:

Tap on

"Mobile Hotspot and Tethering":



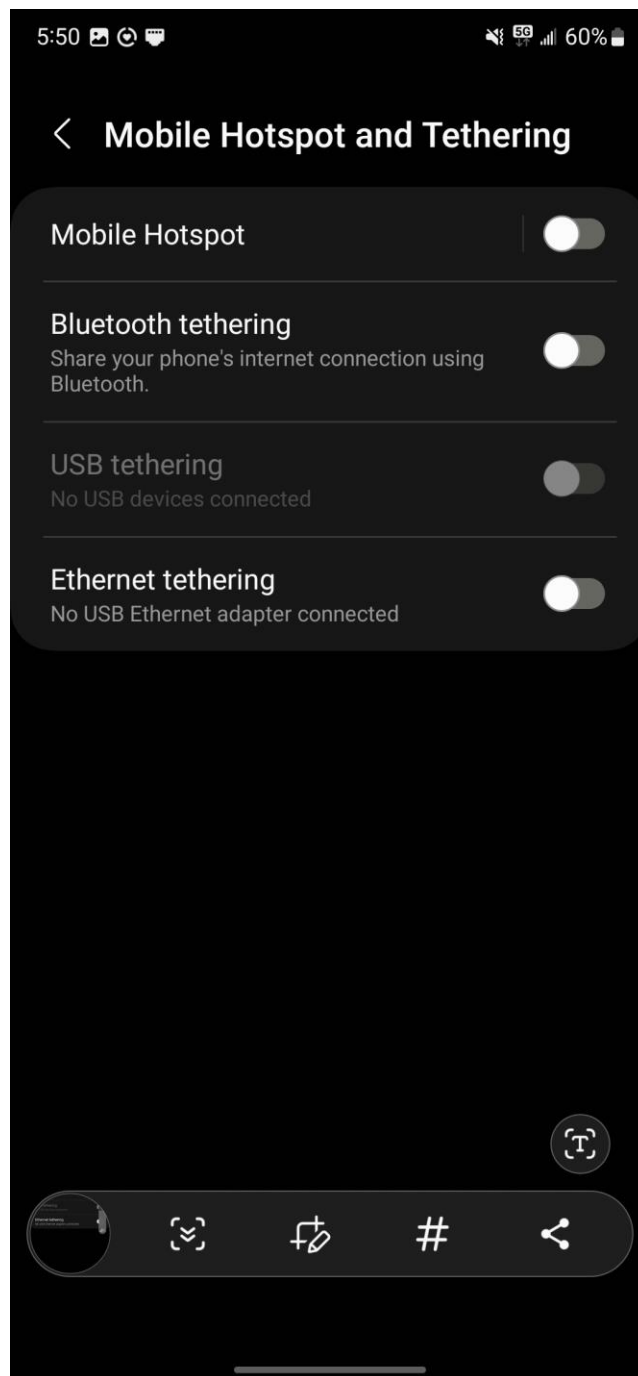


BIG STEP 300 DETAILS (Activate "USB tether" in the "Settings" app of the cell phone)
(continued)

SMALL STEP 316:

Tap on "Ethernet tethering" to enable it.

If "Ethernet tethering" is already enabled, tap on it to disable it, and then tap on it to re-enable it.



< Mobile Hotspot and Tethering

Mobile Hotspot



Bluetooth tethering

Share your phone's internet connection using Bluetooth.



USB tethering

No USB devices connected



Ethernet tethering

No USB Ethernet adapter connected



BIG STEP 300 DETAILS (Activate "USB tether" in the "Settings" app of the cell phone)
(continued)

SMALL STEP 317:

Swipe up from the bottom of the screen to close "Settings"

< 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.



< 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.

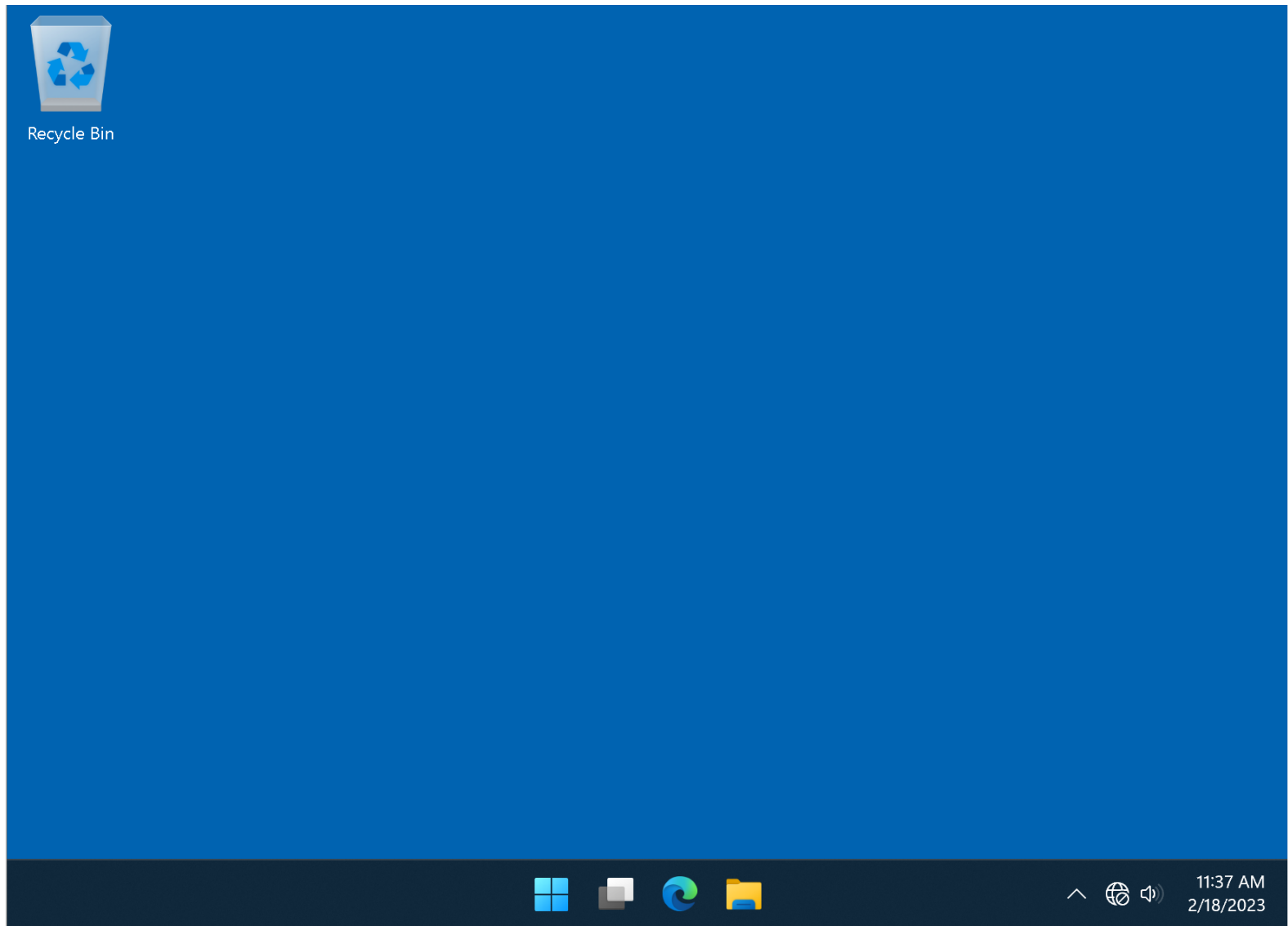


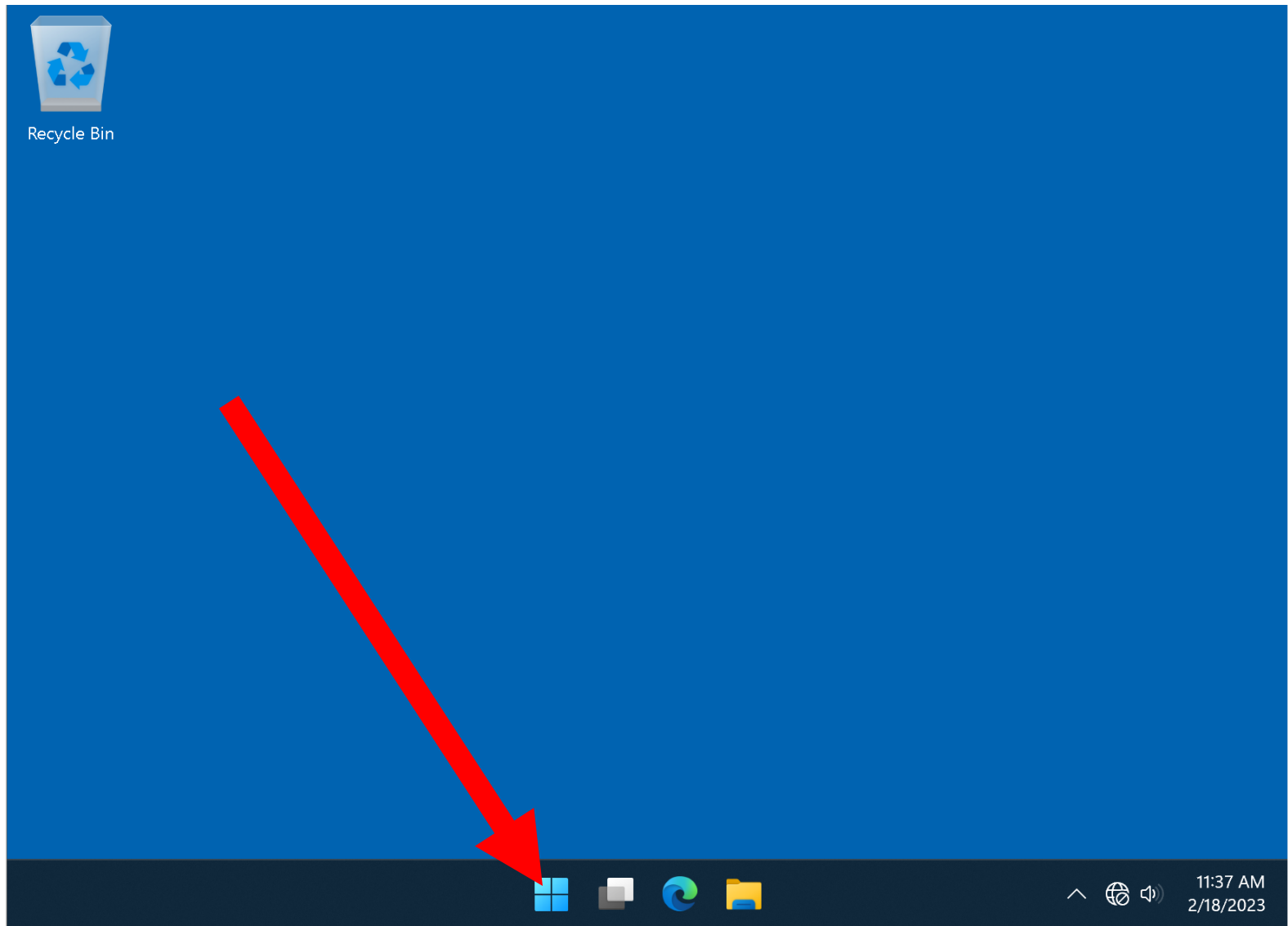
BIG STEP 400 DETAILS (From the client device, activate the Ethernet port that is connected to the cell phone)

- SMALL STEP 401 (continued):
From the client computer, tablet, or cell phone, go to either "Network Connections" or "Settings"

BIG STEP 400 DETAILS (From the client device, activate the Ethernet port that is connected to the cell phone) (continued)

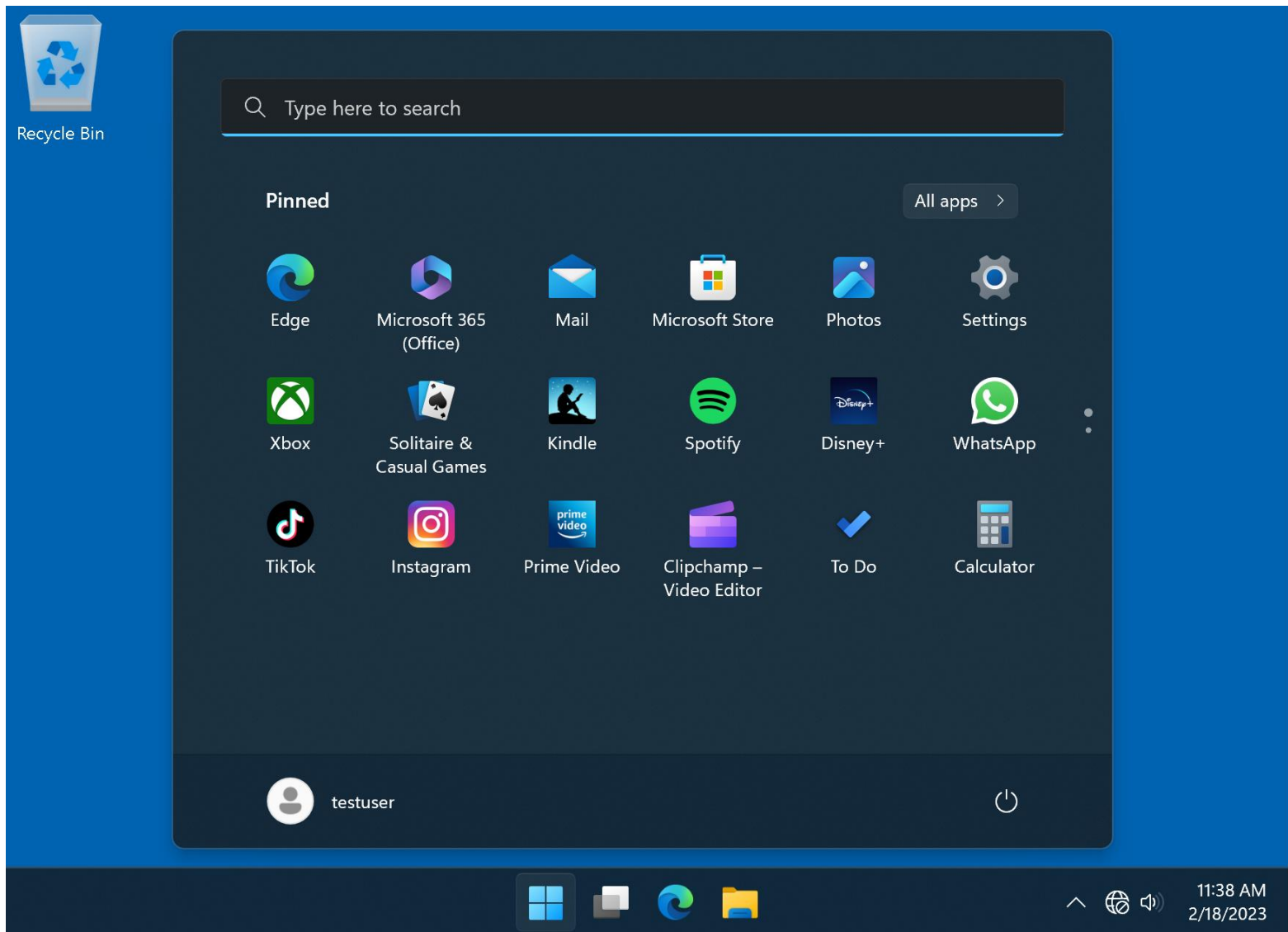
- SMALL STEP 402:
From a Windows.. computer, use the left mouse button to click on the "Start" button:

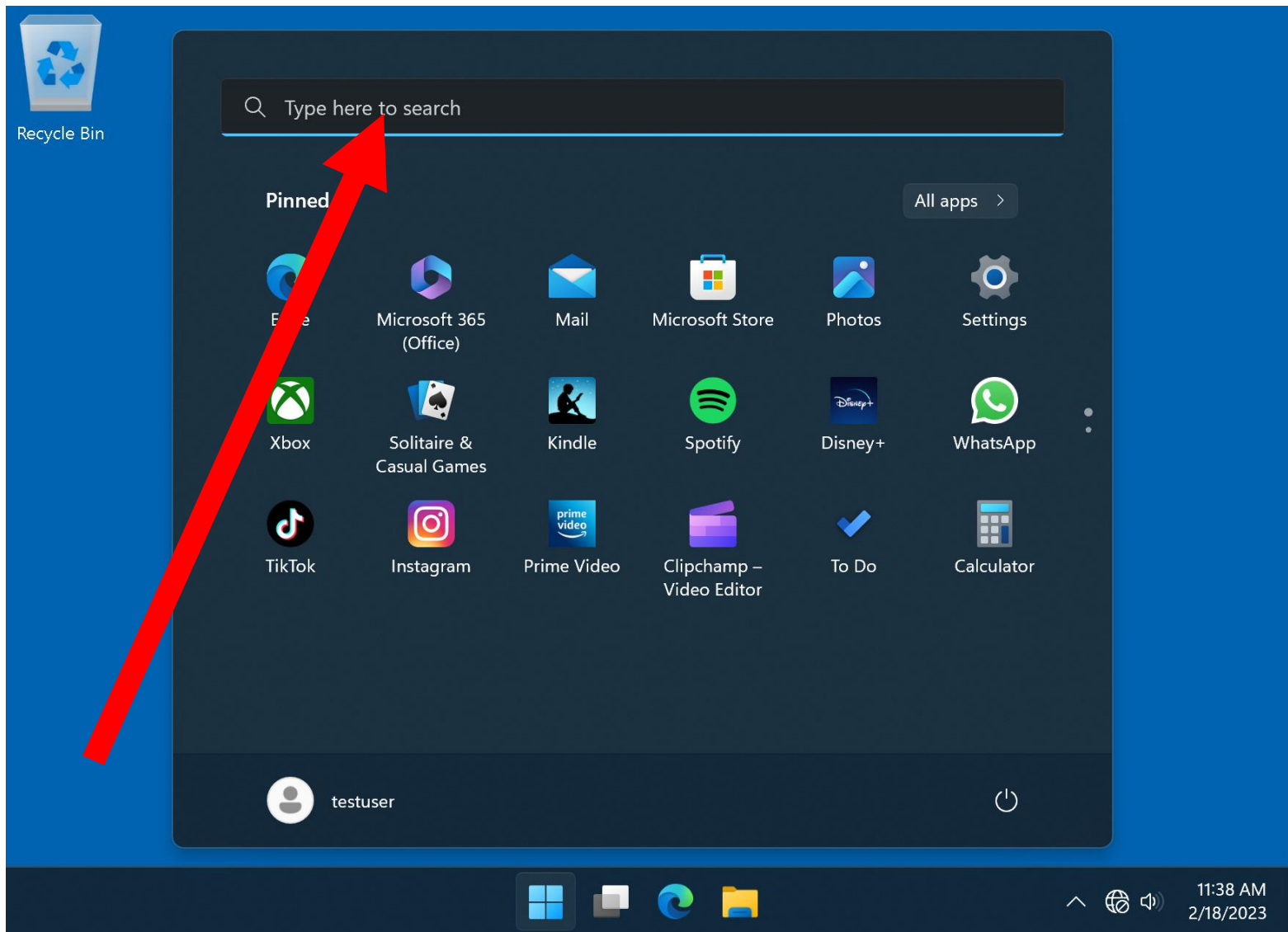




BIG STEP 400 DETAILS (From the client device, activate the Ethernet port that is connected to the cell phone) (continued)

- **SMALL STEP 403:**
Click on the "Search" field:





BIG STEP 400 DETAILS (From the client device, activate the Ethernet port that is connected to the cell phone) (continued)

- **SMALL STEP 404:**
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 400 DETAILS (From the client device, activate the Ethernet port that is connected to the cell phone) (continued)

- SMALL STEP 405:
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 400 DETAILS (From the client device, activate the Ethernet port that is connected to the cell phone) (continued)

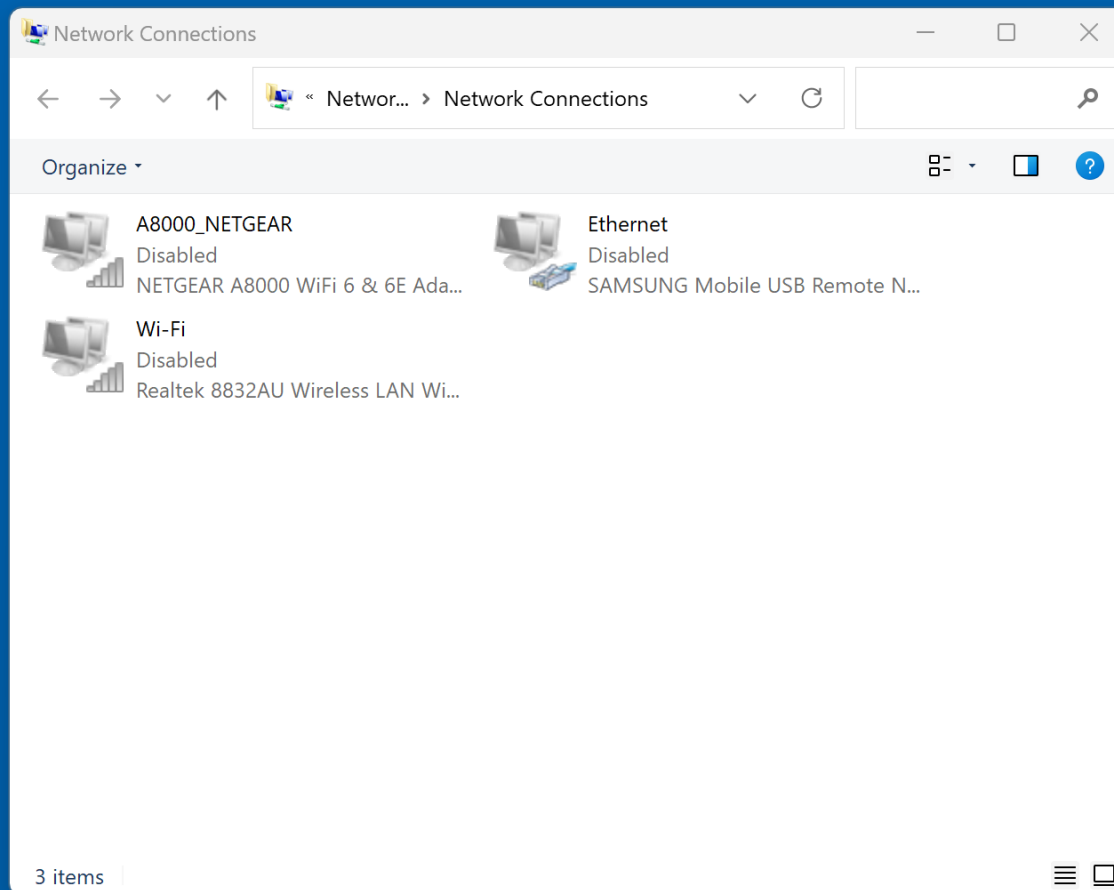
- SMALL STEP 406:
Press the Enter key of the computer's keyboard.

BIG STEP 400 DETAILS (From the client device, activate the Ethernet port that is connected to the cell phone) (continued)

- SMALL STEP 407:
A "Network Connections" window will be displayed.



Recycle Bin



5:15 PM
2/18/2023

BIG STEP 400 DETAILS (From the client device, activate the Ethernet port that is connected to the cell phone) (continued)

- **SMALL STEP 408:**

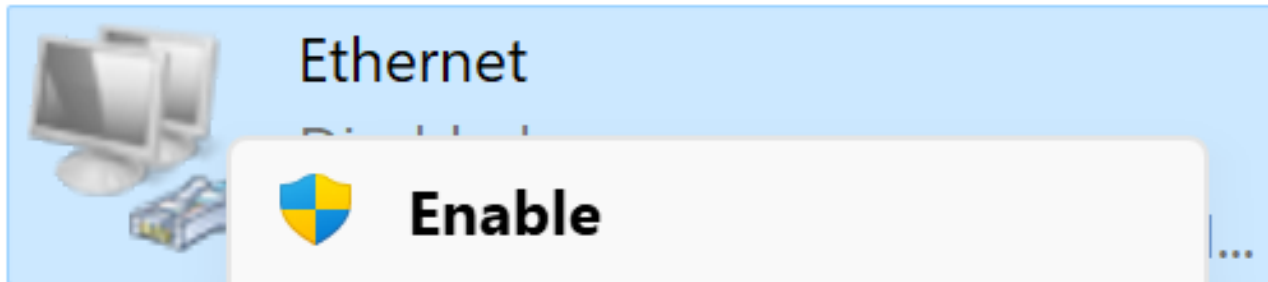
Locate the Ethernet adapter of the Windows.. computer that is connected via a Cat-x cable to the add-on USB-C Ethernet adapter that is connected to the Android cell phone:

BIG STEP 400 (From the client device,
activate the Ethernet port that is connected to
the cell phone) (continued)

- SMALL STEP 409:
Use the RIGHT mouse button to click
on the Ethernet adapter of the
Windows.. computer that is
connected via a Cat-x cable to the
add-on USB-C Ethernet adapter that
is connected to the Android cell
phone:

BIG STEP 400 (From the client device,
activate the Ethernet port that is connected to
the cell phone) (continued)

- **SMALL STEP 410:**
A pop-up utility menu will be
displayed:



Enable

Status

Diagnose

Create Shortcut



Delete



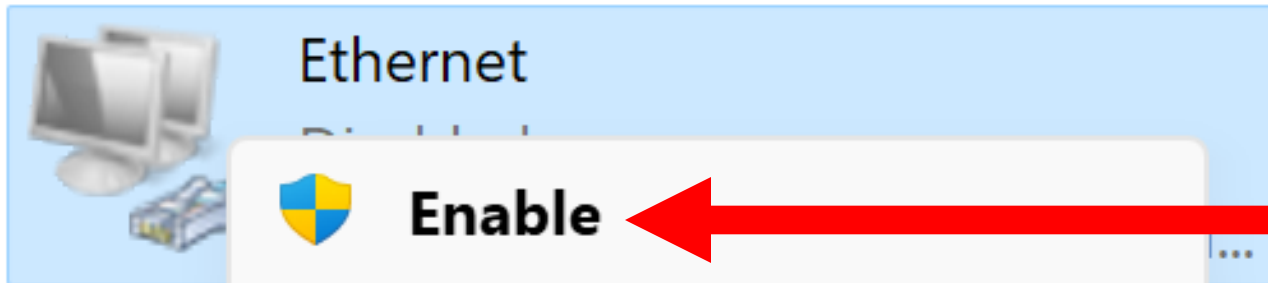
Rename



Properties

BIG STEP 400 (From the client device,
activate the Ethernet port that is connected to
the cell phone) (continued)

- SMALL STEP 411:
If the Ethernet adapter of the
Windows.. computer is "Disabled",
use the left mouse button to "Enable"
it:



Enable

Status

Diagnose

Create Shortcut



Delete



Rename



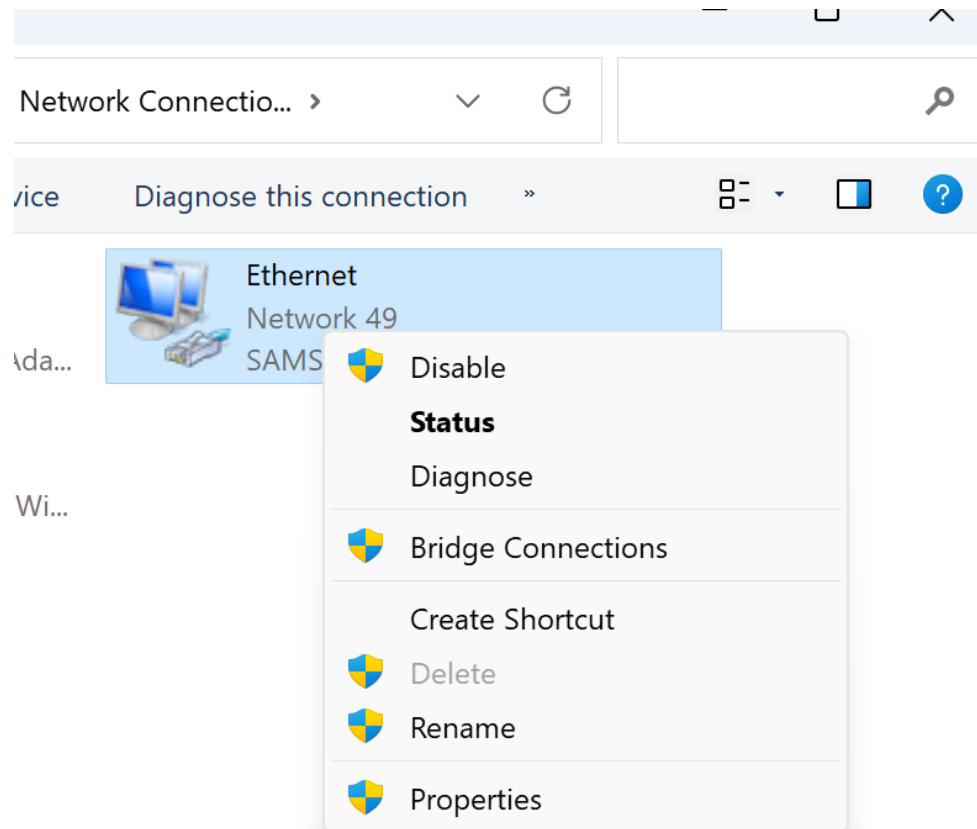
Properties

BIG STEP 400 (From the client device,
activate the Ethernet port that is connected to
the cell phone) (continued)

- SMALL STEP 412:
The Ethernet adapter of the
Windows.. computere will no longer
be displayed as "Disabled":

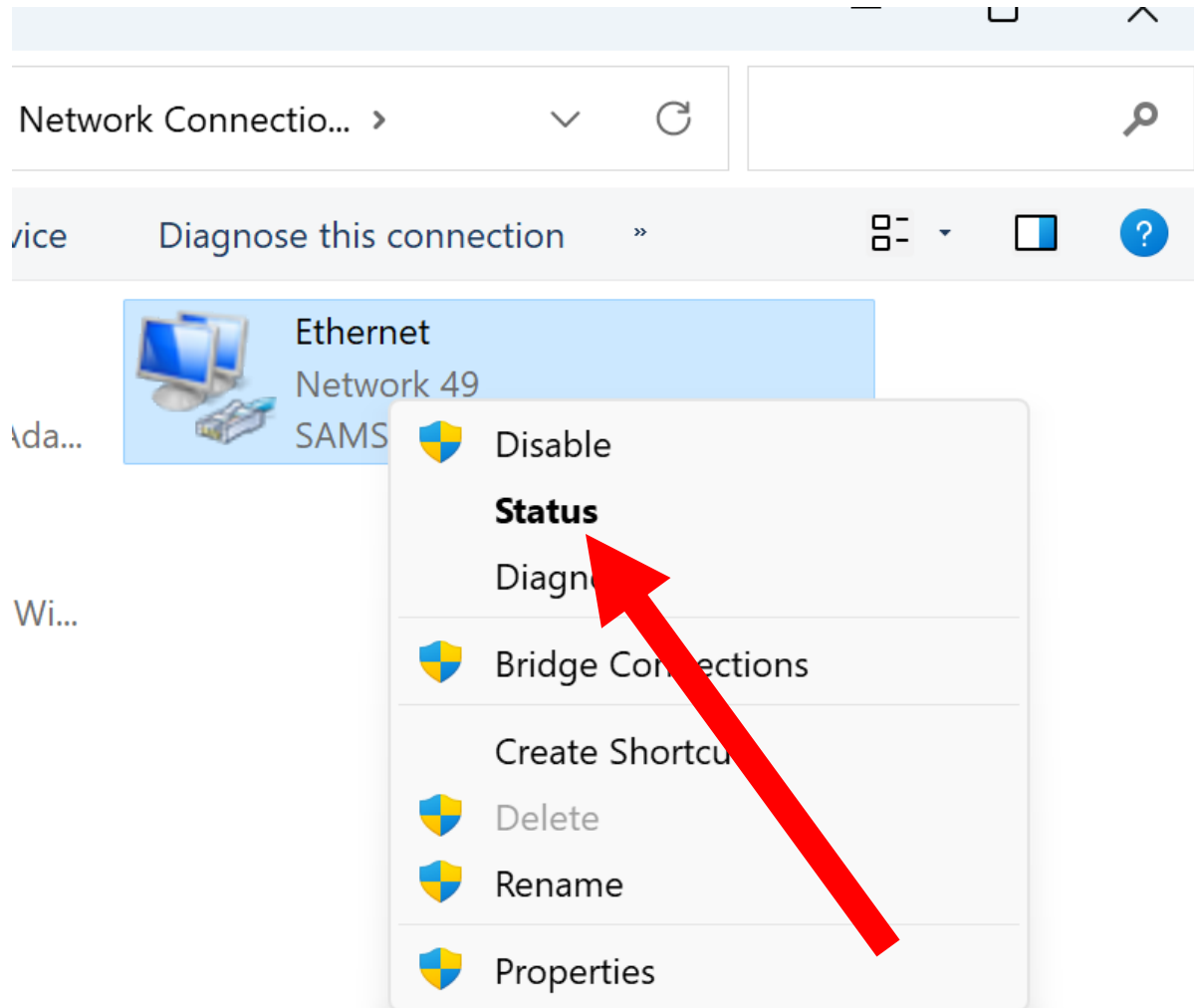
BIG STEP 400 (From the client device,
activate the Ethernet port that is connected to
the cell phone) (continued)

- **SMALL STEP 413:**
A pop-up utility menu will be
displayed:



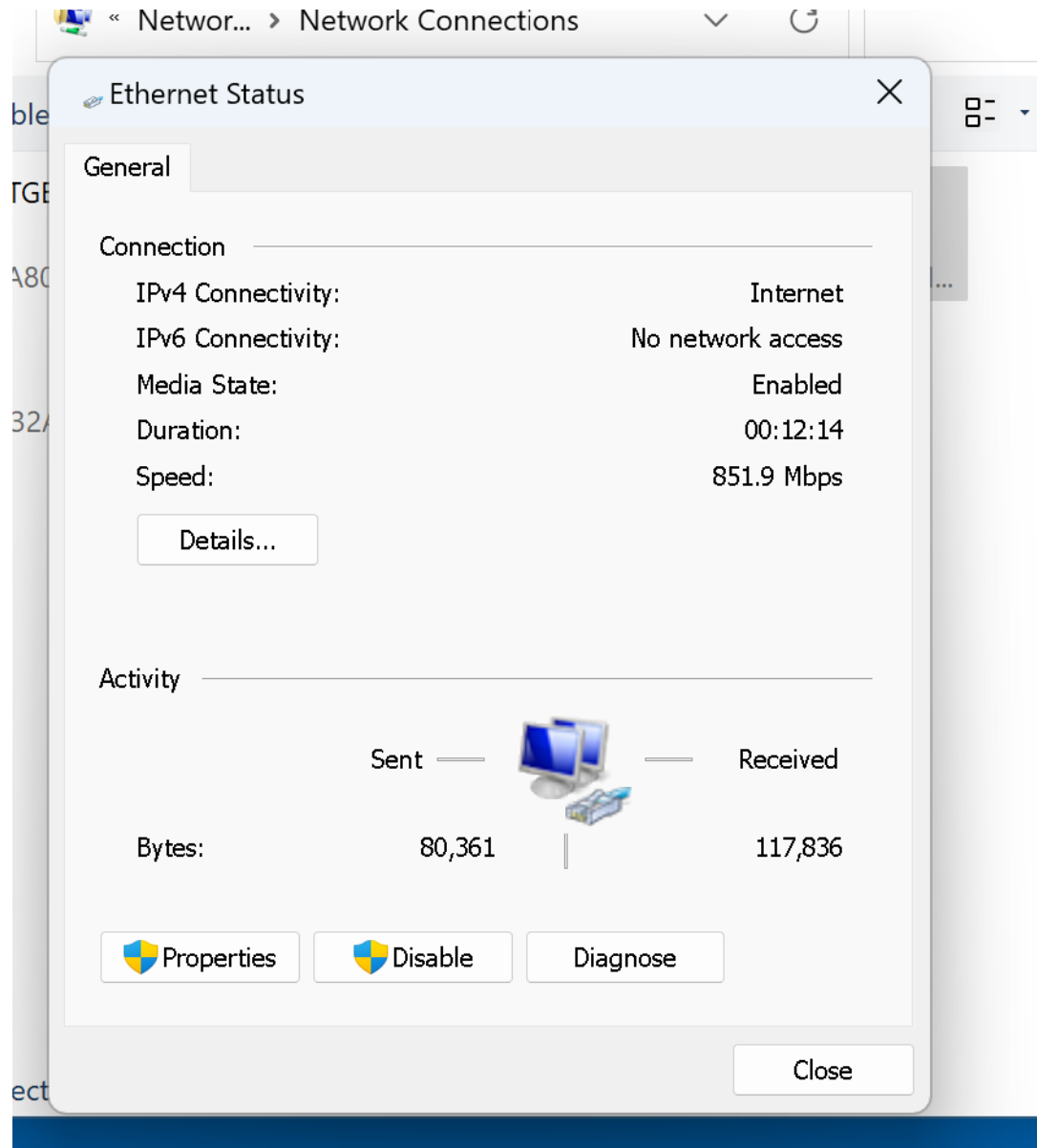
BIG STEP 400 (From the client device,
activate the Ethernet port that is connected to
the cell phone) (continued)

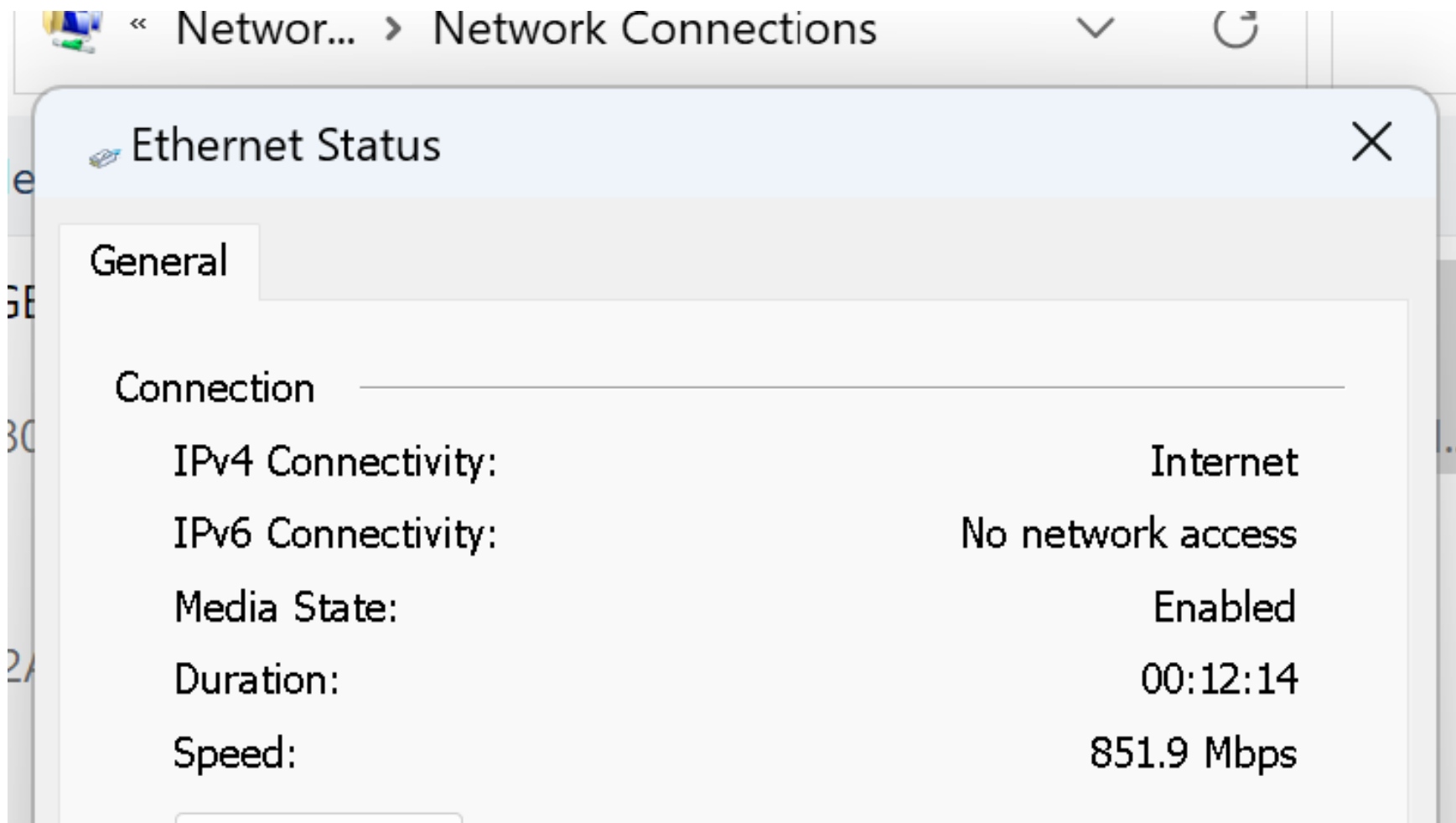
- **SMALL STEP 414:**
Use the left mouse button to click on
"Status" in the pop-up utility menu:



BIG STEP 400 (From the client device,
activate the Ethernet port that is connected to
the cell phone) (continued)

- **SMALL STEP 415:**
An "Ethernet Status" box will be
displayed





BIG STEP 400 (From the client device,
activate the Ethernet port that is connected to
the cell phone) (continued)

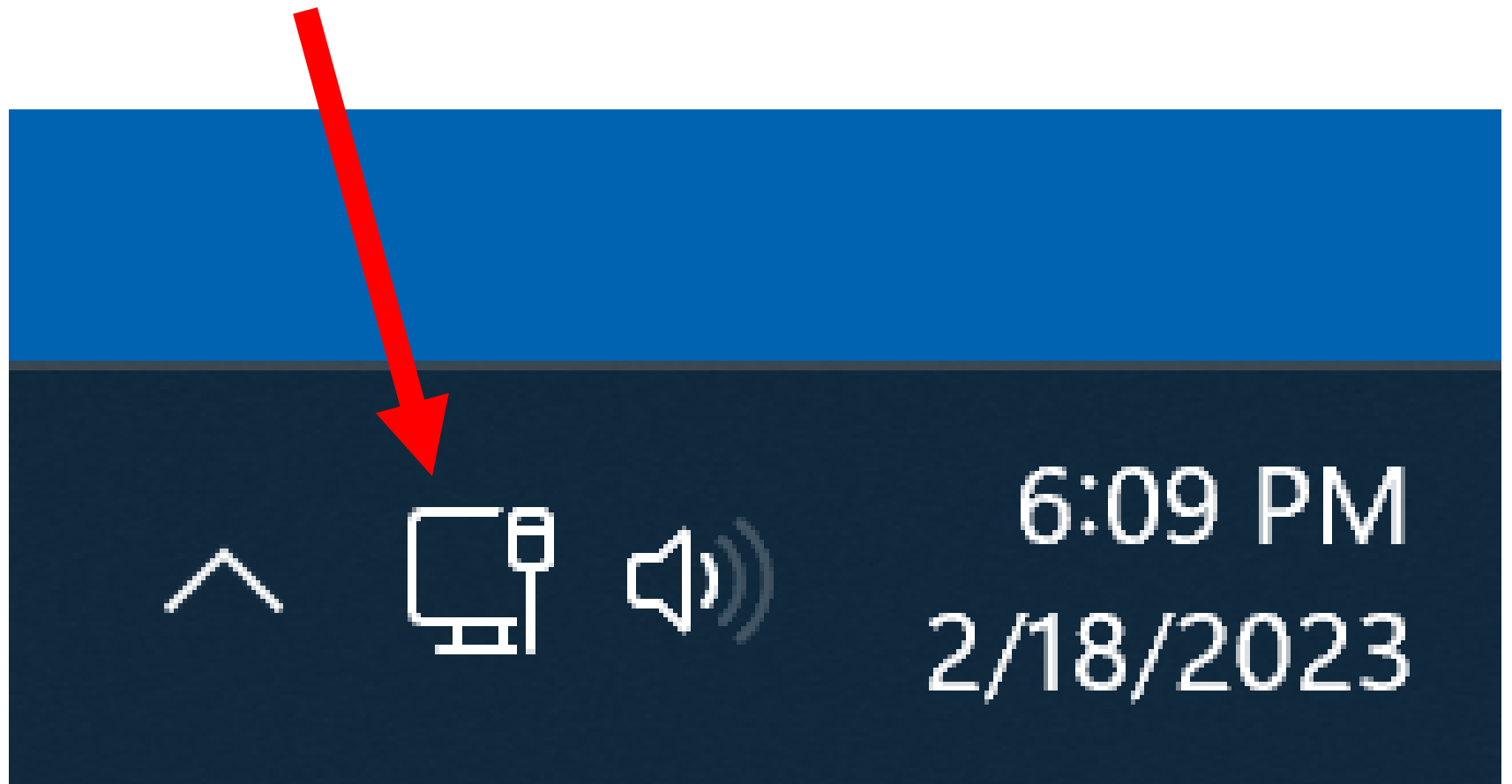
- **SMALL STEP 416:**
Click on the "Close" button of the
"Ethernet Status" box:

BIG STEP 400 (From the client device, activate the Ethernet port that is connected to the cell phone) (continued)

- SMALL STEP 417:
Note that the "Notification Area" in the lower-right corner of the Windows..
"Desktop" now shows that an active Ethernet adapter is connected to the Windows.. computer



6:09 PM
2/18/2023



BIG STEP 400 (From the client device, activate the Ethernet port that is connected to the cell phone) (continued)

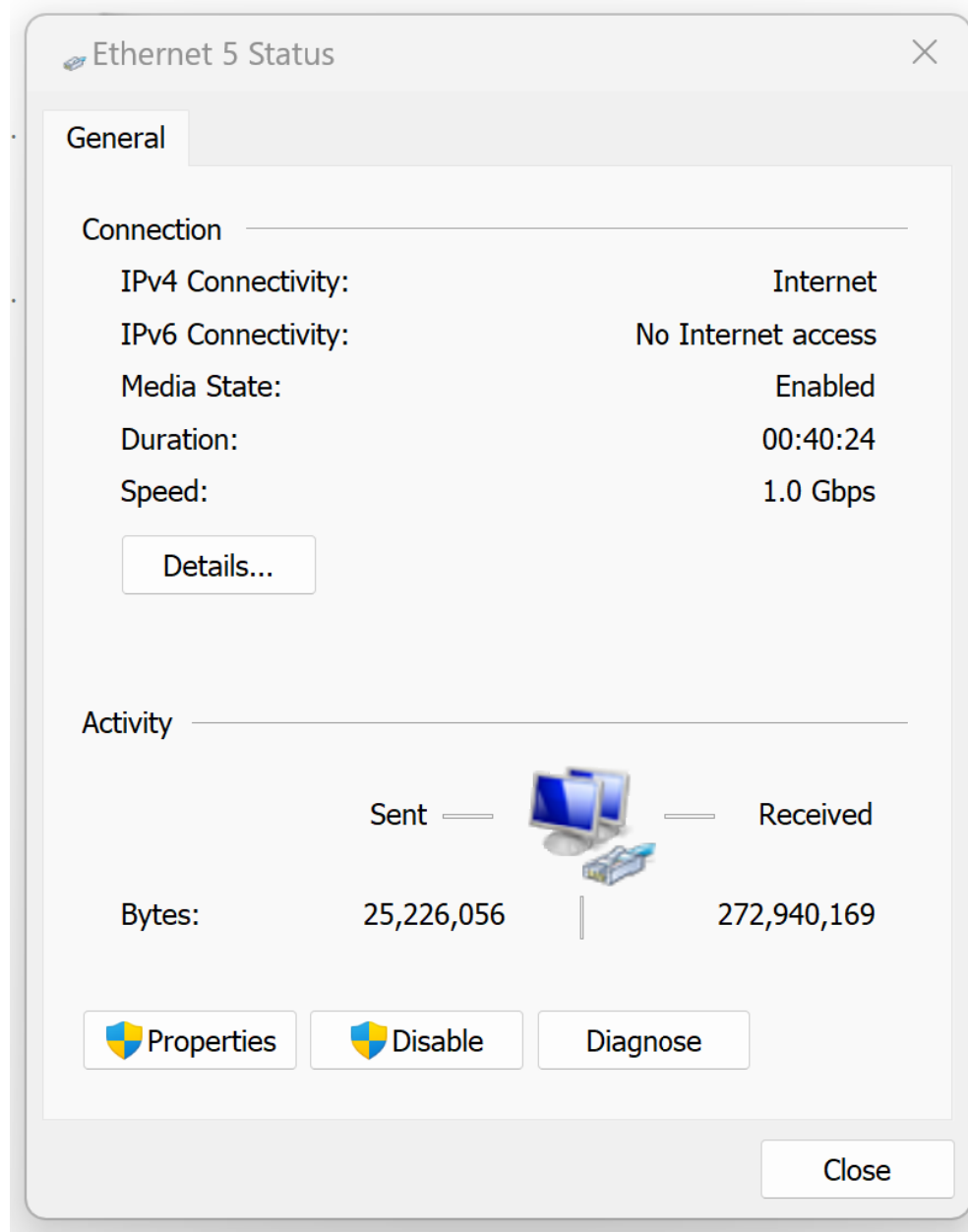
- SMALL STEP 418:
Close the "Network Connections" window by clicking on the "x" button in the upper-right corner of the "Network Connections" window.

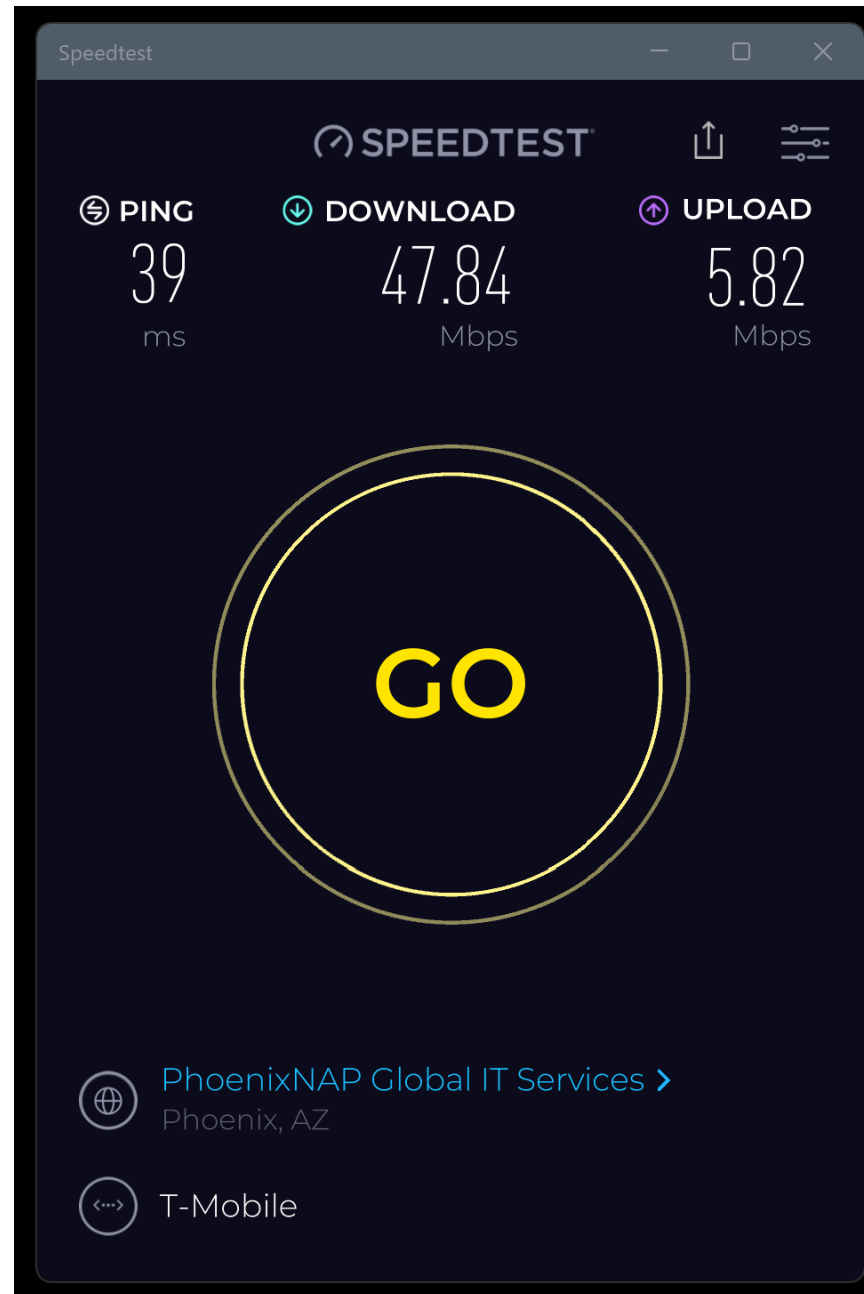


Ethernet 5

Network 6

Realtek USB GbE Family Controlle...





ADDITIONAL INFORMATION

- <https://www.androidpolice.com/how-to-tether-samsung-galaxy-data-to-router/>

