5--TETHERING WITH BLUETOOTH FROM AN ANDROID CELL PHONE TO A "WINDOWS.." COMPUTER

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Web location for this presentation:

http://aztcs.apcug.org

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"Meeting Notes"

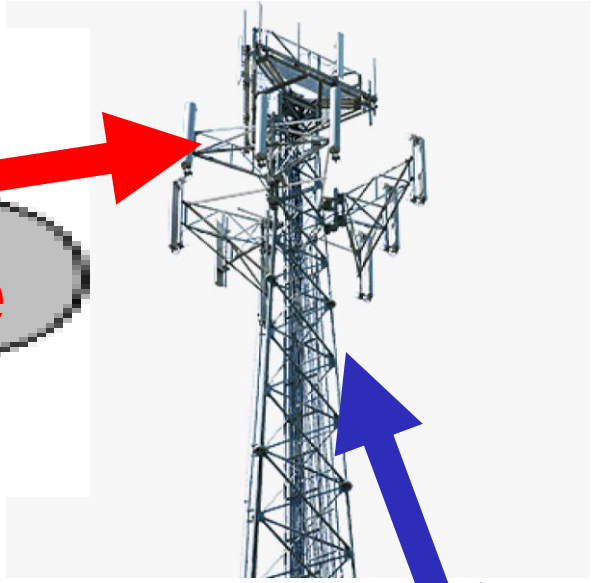
SUMMARY

You can use your iPhone to create a Bluetooth tether/hotspot to provide an Internet connection for a "Windows.." computer.

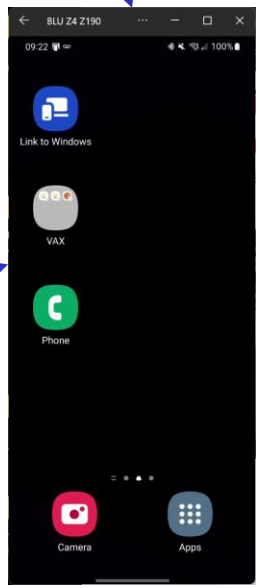
TOPICS

- "Access Point" Instead of "Direct Connection" !!
- Big Steps (for computer experts)
- Small Steps (for the rest of us)

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



Option 3:
Android cell phone provides a wireless Bluetooth "hotspot"/tether to the client computer, tablet, or another cell phone so that it can access the Internet

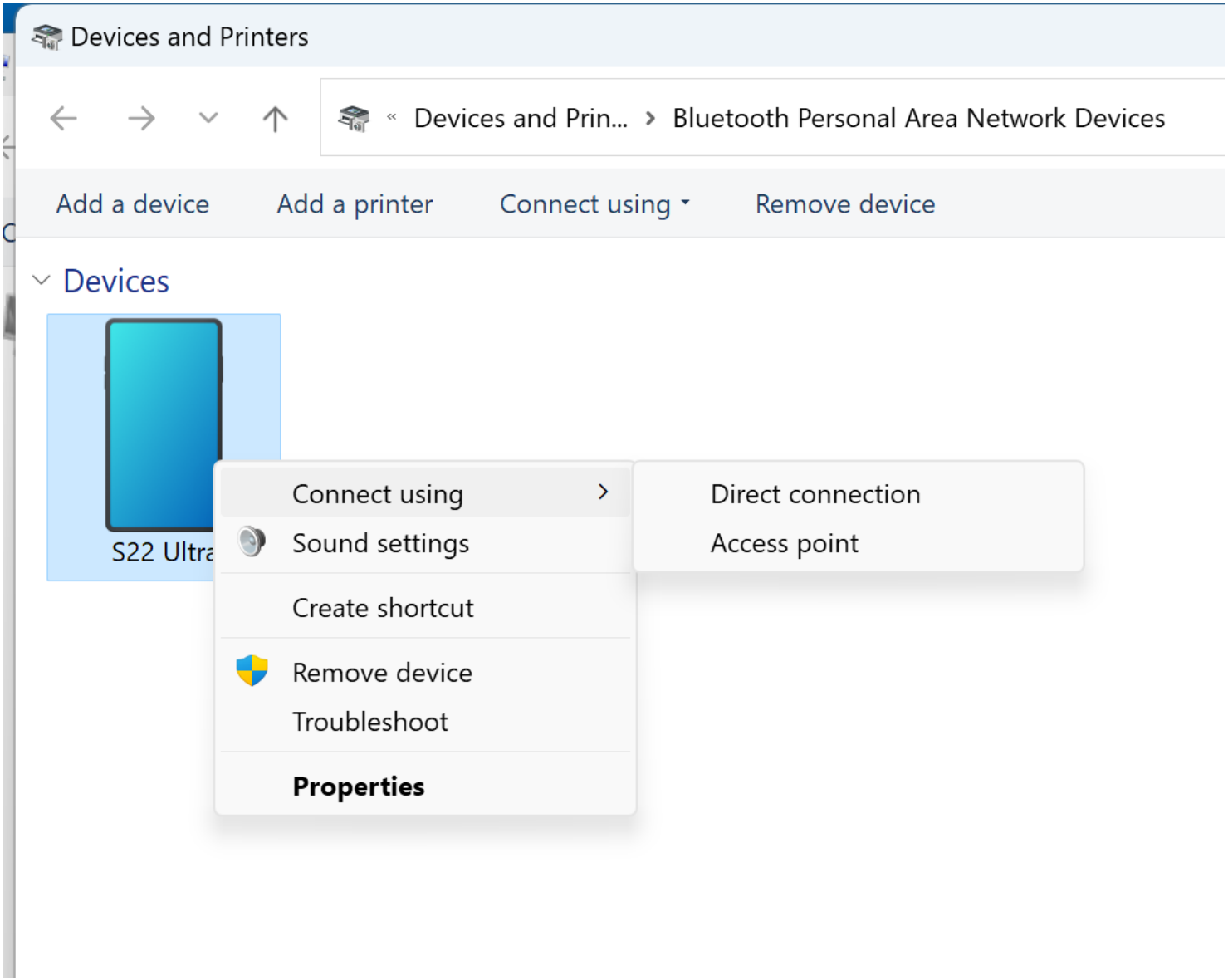


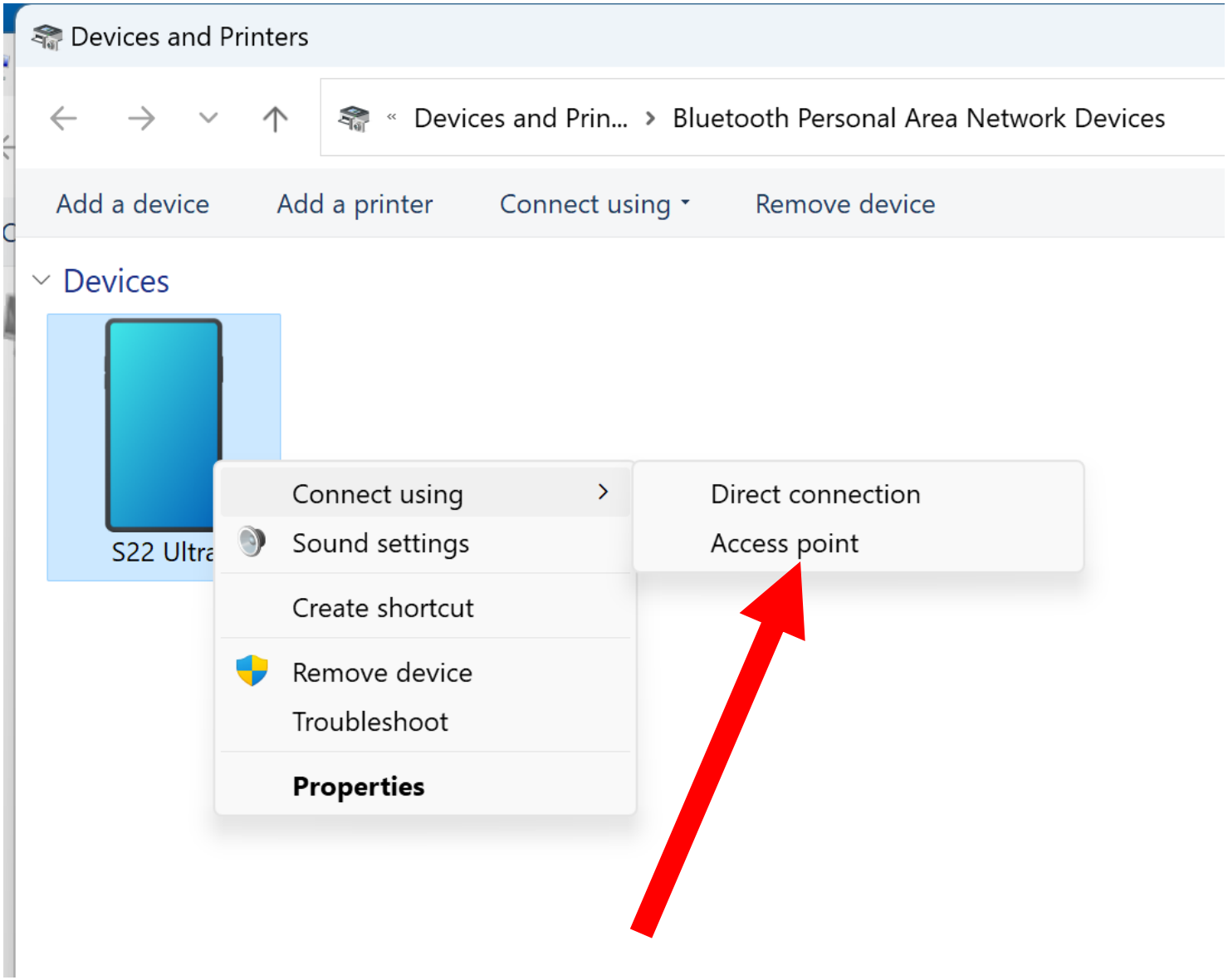
"TETHERING" AND "HOTSPOT" FOR CELL PHONES

- 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

"ACCESS POINT" INSTEAD OF "DIRECT CONNECTION"

- The key to making a successful Bluetooth tether from a client device to a cell phone is to make an "Access Point" instead of a "Direct Connection", after doing a Bluetooth "pairing" between a cell phone and a client device:


Devices and Printers
Devices and Prin...
Bluetooth Personal Area Network Devices
Add a device
Add a printer
Connect using
Remove device
Devices
S22 Ultra
Connect using
Sound settings
Create shortcut
Remove device
Troubleshoot
Properties
Direct connection
Access point


Devices and Printers
Devices and Prin...
Bluetooth Personal Area Network Devices
Add a device
Add a printer
Connect using
Remove device
Devices
S22 Ultra
Connect using
Sound settings
Create shortcut
Remove device
Troubleshoot
Properties
Direct connection
Access point

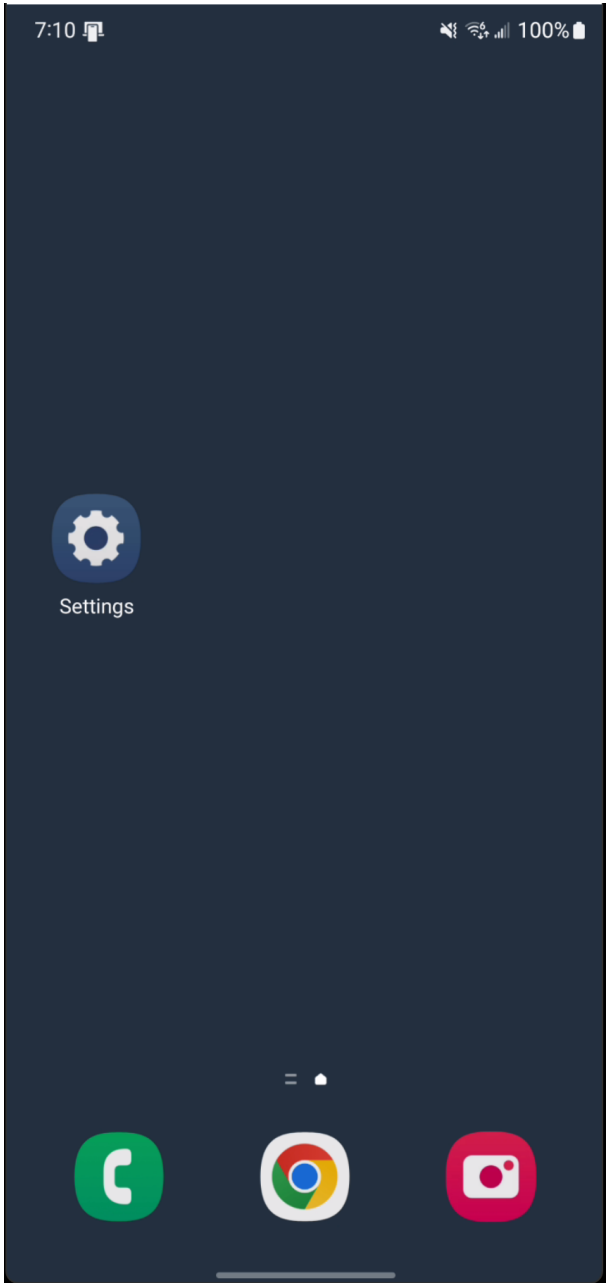
OPTION 3 BIG STEPS

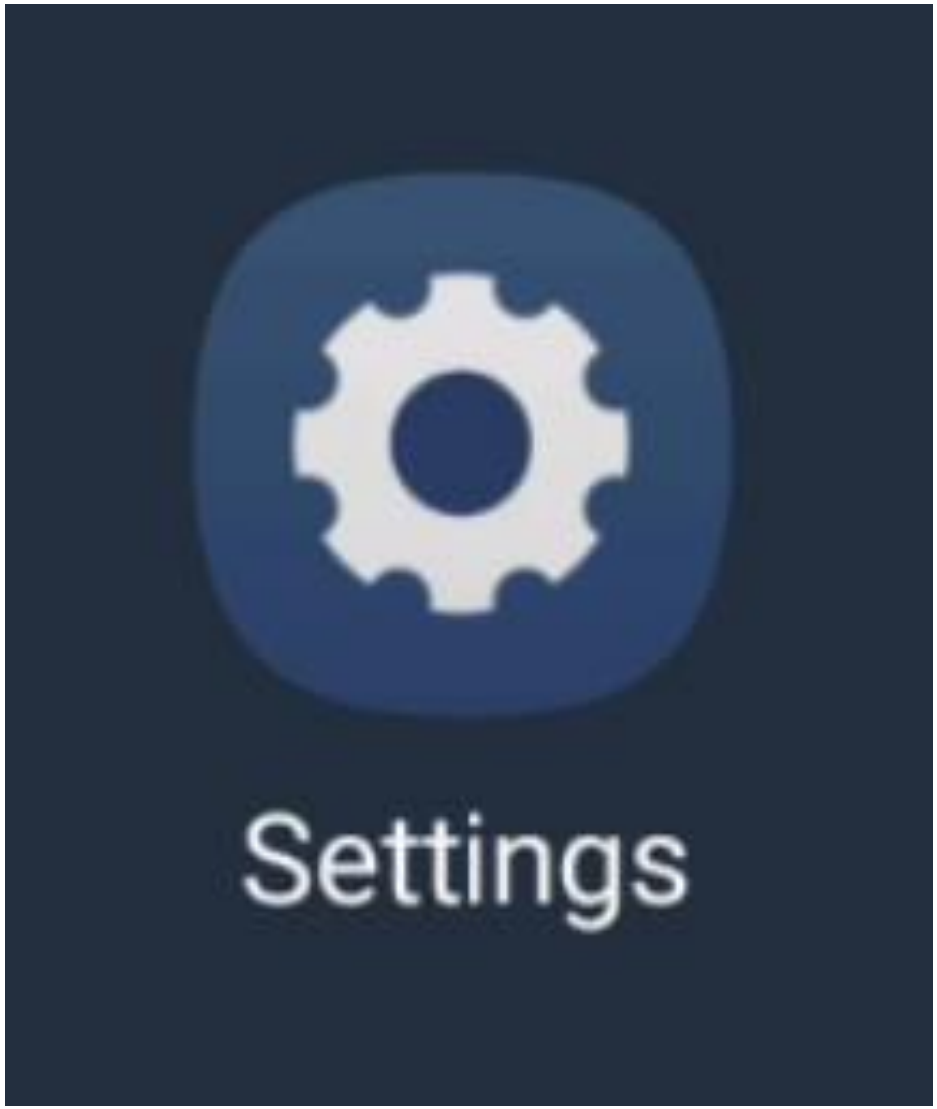
("Option 3:" = tethering using Bluetooth)

- BIG STEP 100:
  Do a Bluetooth "Pairing" between the Android cell phone and the client device
- BIG STEP 200:
  Activate "Bluetooth Tethering" in the "Settings" app of the Android cell phone
- BIG STEP 300:
  From the Bluetooth icon in "Network Connections" of Windows.., connect to the Android phone as an "Access Point"

BIG STEP 100 (Activate Bluetooth pairing for the Android cell phone and the client device)

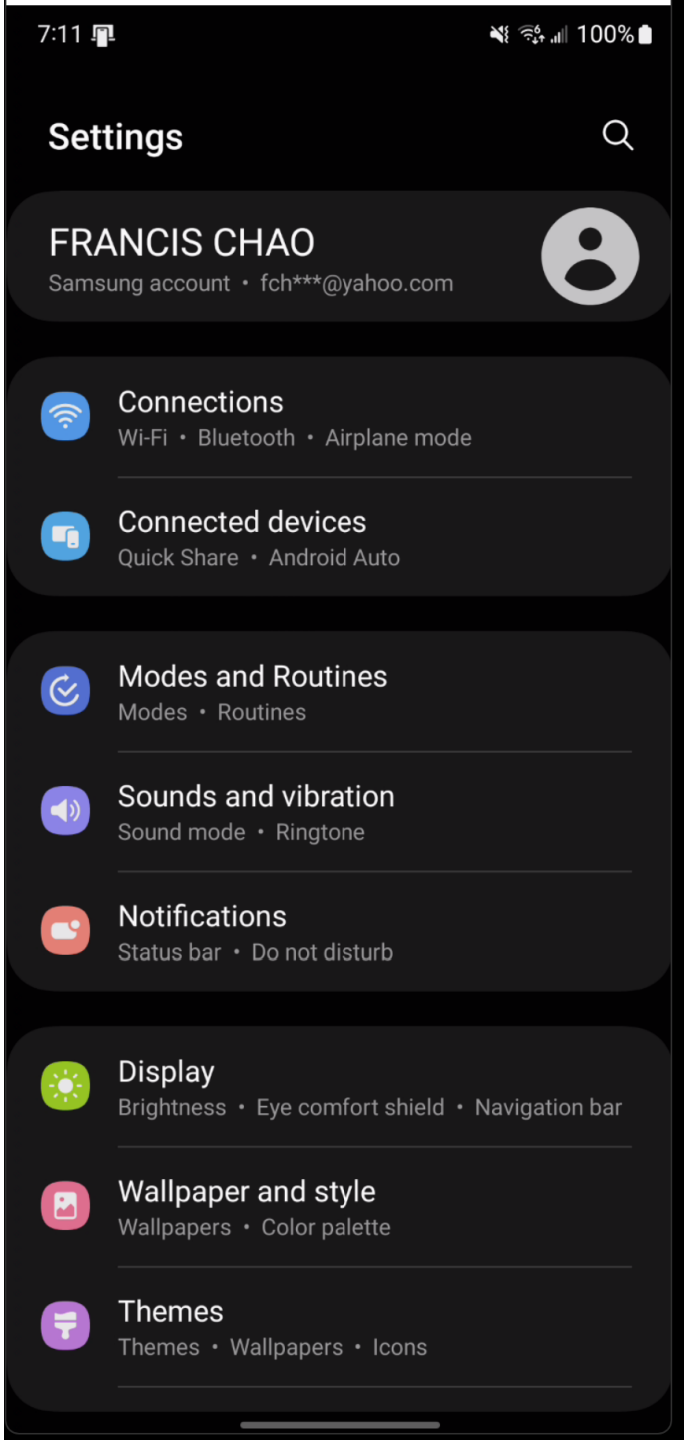
SMALL STEP 101:
Locate the "Settings" icon in the Android cell phone:


7:10
100%
Settings


Settings

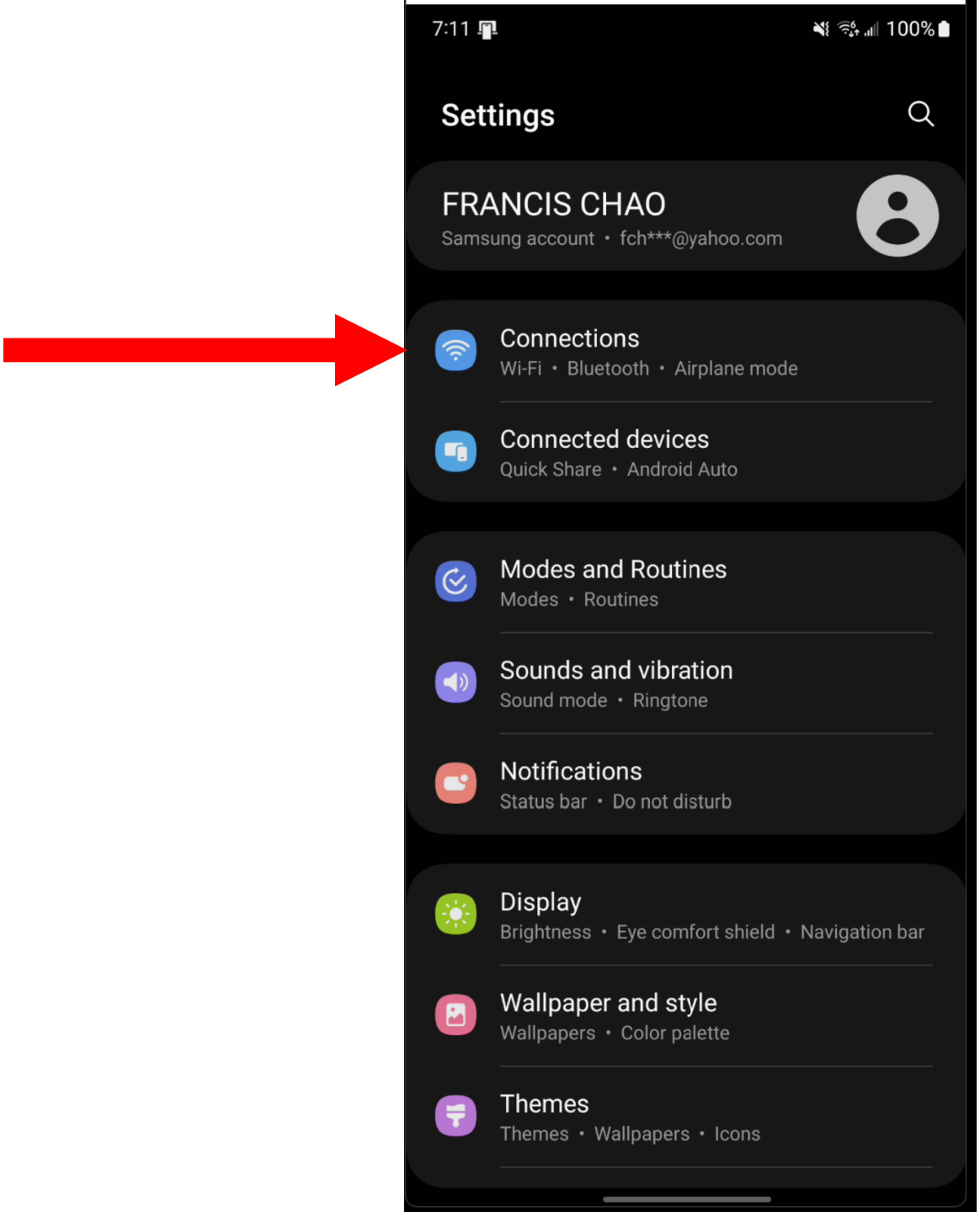
BIG STEP 100 (Activate Bluetooth pairing for the Android cell phone and the client device) (continued)

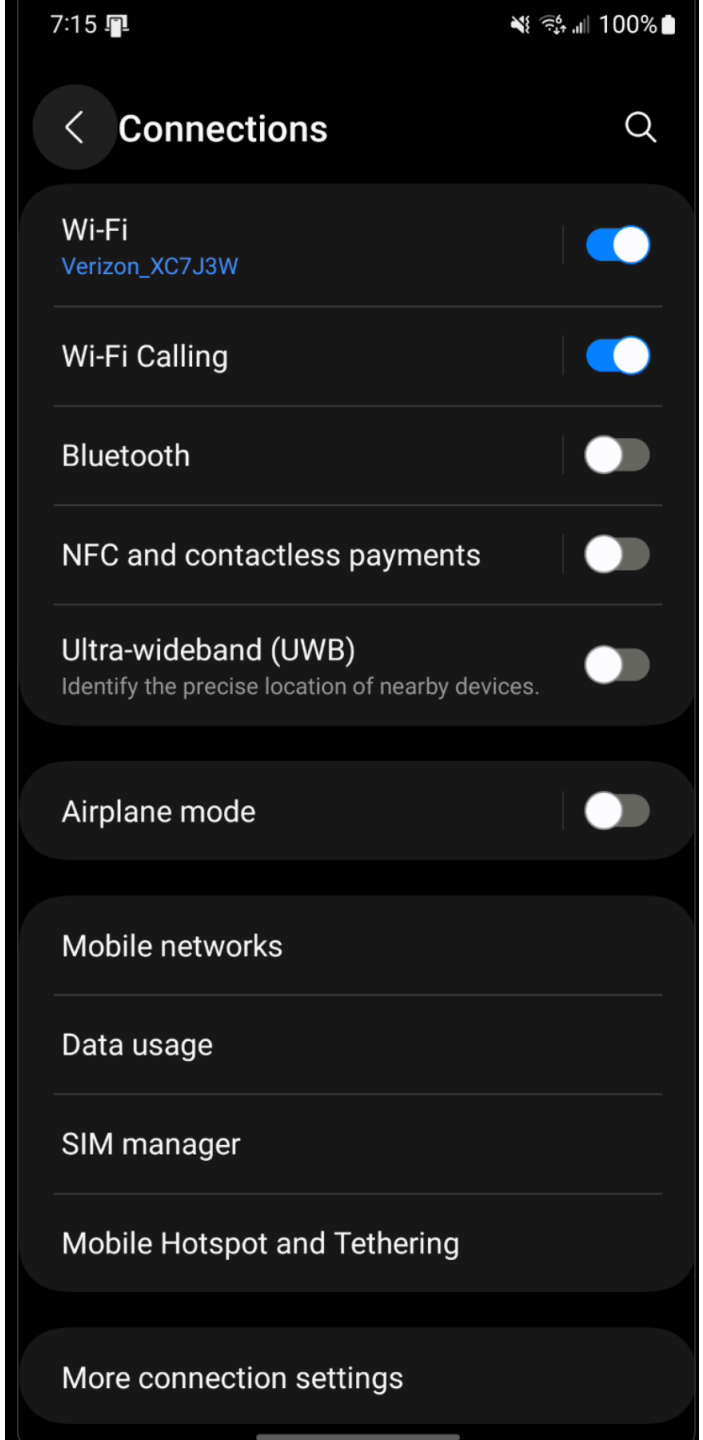
SMALL STEP 102:
Tap on the "Settings" icon of the Android cell phone:


7:11
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
Display
Brightness • Eye comfort shield • Navigation bar
Wallpaper and style
Wallpapers • Color palette
Themes
Themes • Wallpapers • Icons

BIG STEP 100 (Activate Bluetooth pairing for the Android cell phone and the client device) (continued)

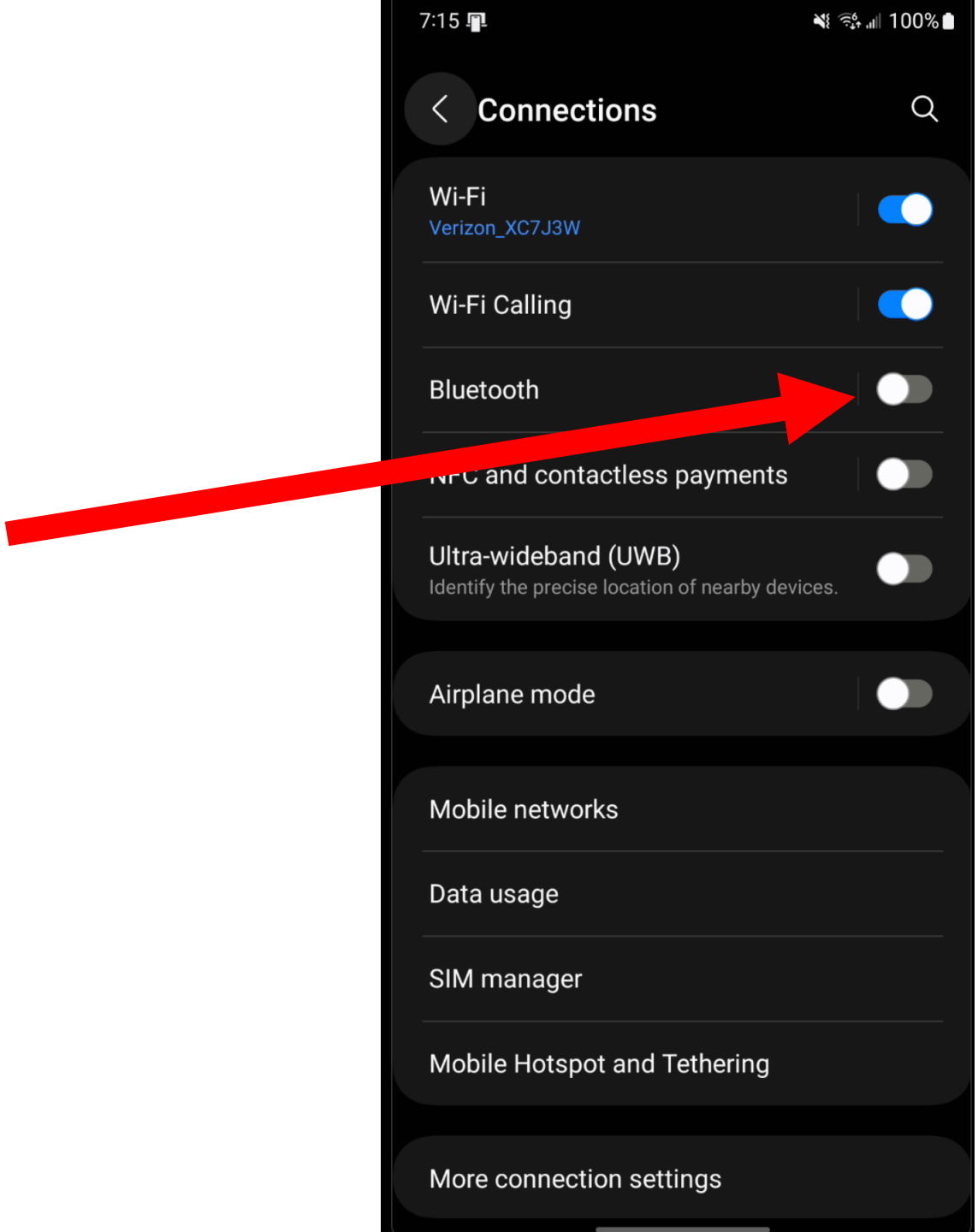
SMALL STEP 103:
Tap on "Connections" in the screen of the "Settings" app:


7:11
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
Display
Brightness • Eye comfort shield • Navigation bar
Wallpaper and style
Wallpapers • Color palette
Themes
Themes • Wallpapers • Icons


7:15
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 100 (Activate Bluetooth pairing for the Android cell phone and the client device) (continued)

SMALL STEP 104:
If "Bluetooth" is "off", tap on it's on-off selector to enable it.
If "Bluetooth" is not enabled, tap on it's on-off selector twice to disable and then re-enable it.


7:15
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
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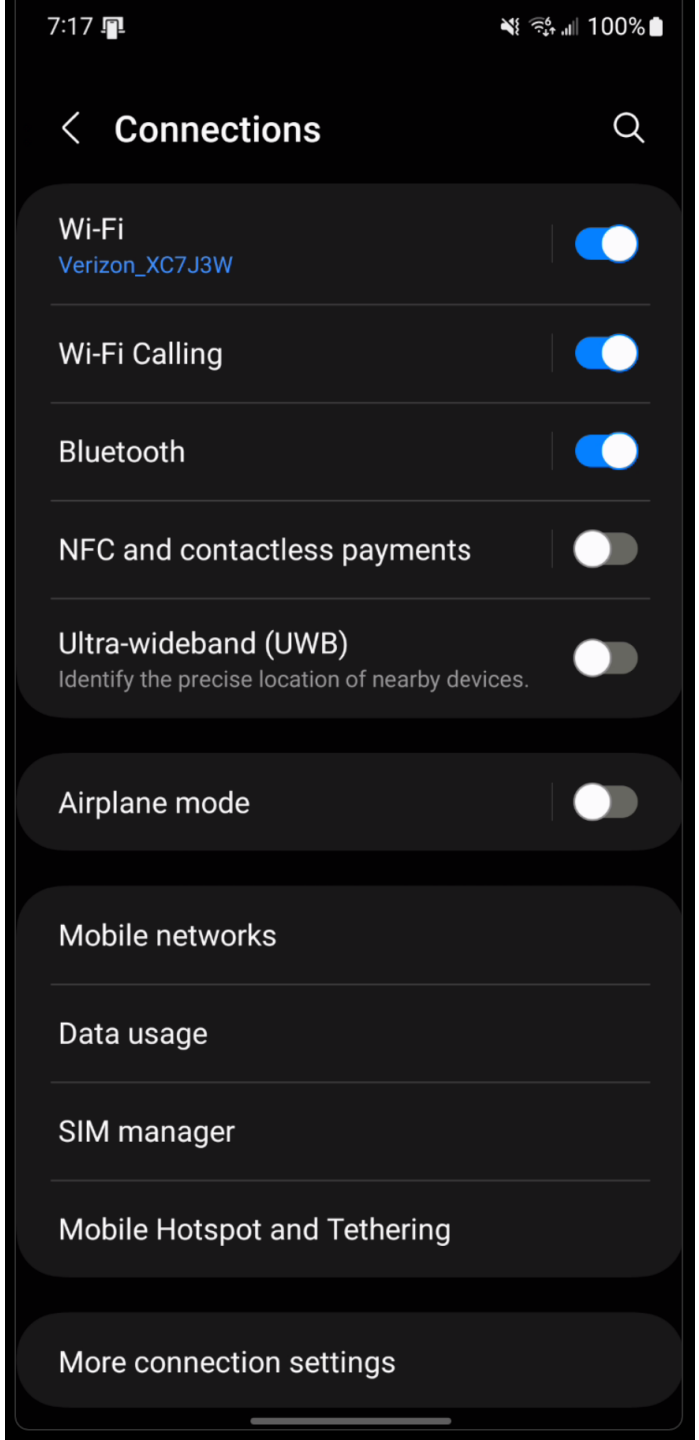
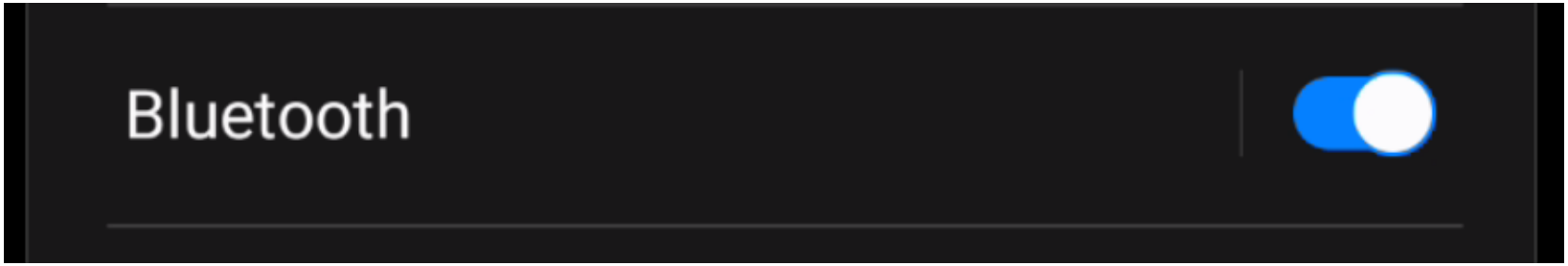
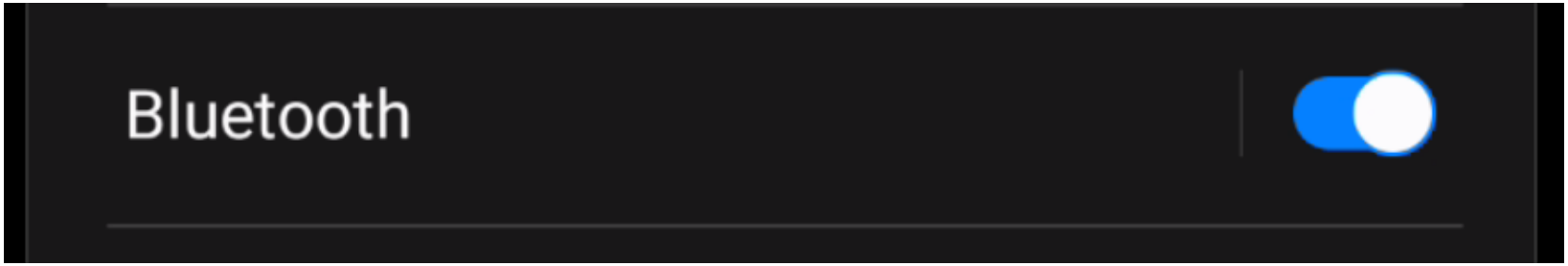
Mobile Hotspot and Tethering
More connection settings


7:17
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


Bluetooth

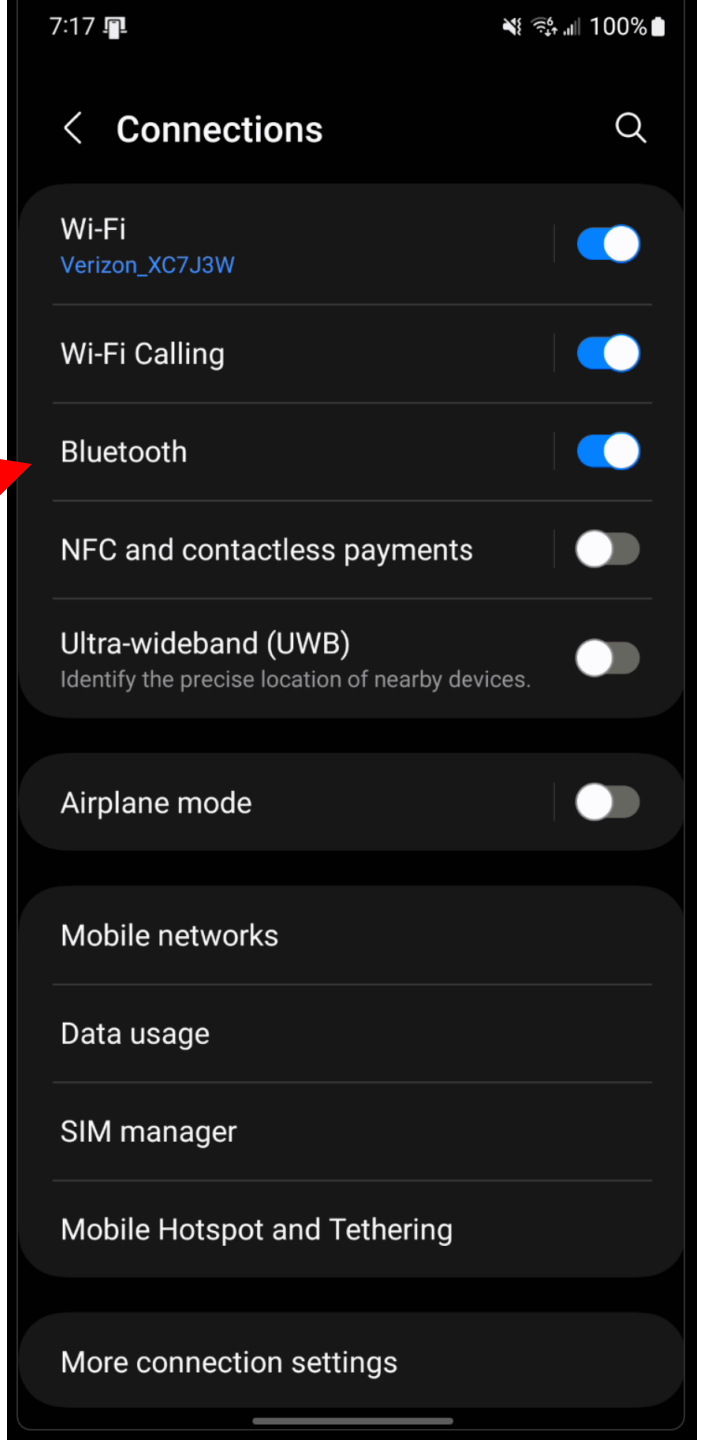
BIG STEP 100 (Activate Bluetooth pairing for the Android cell phone and the client device) (continued)

SMALL STEP 105:
The "on-off" toggle will now be in the "on" position.


Bluetooth

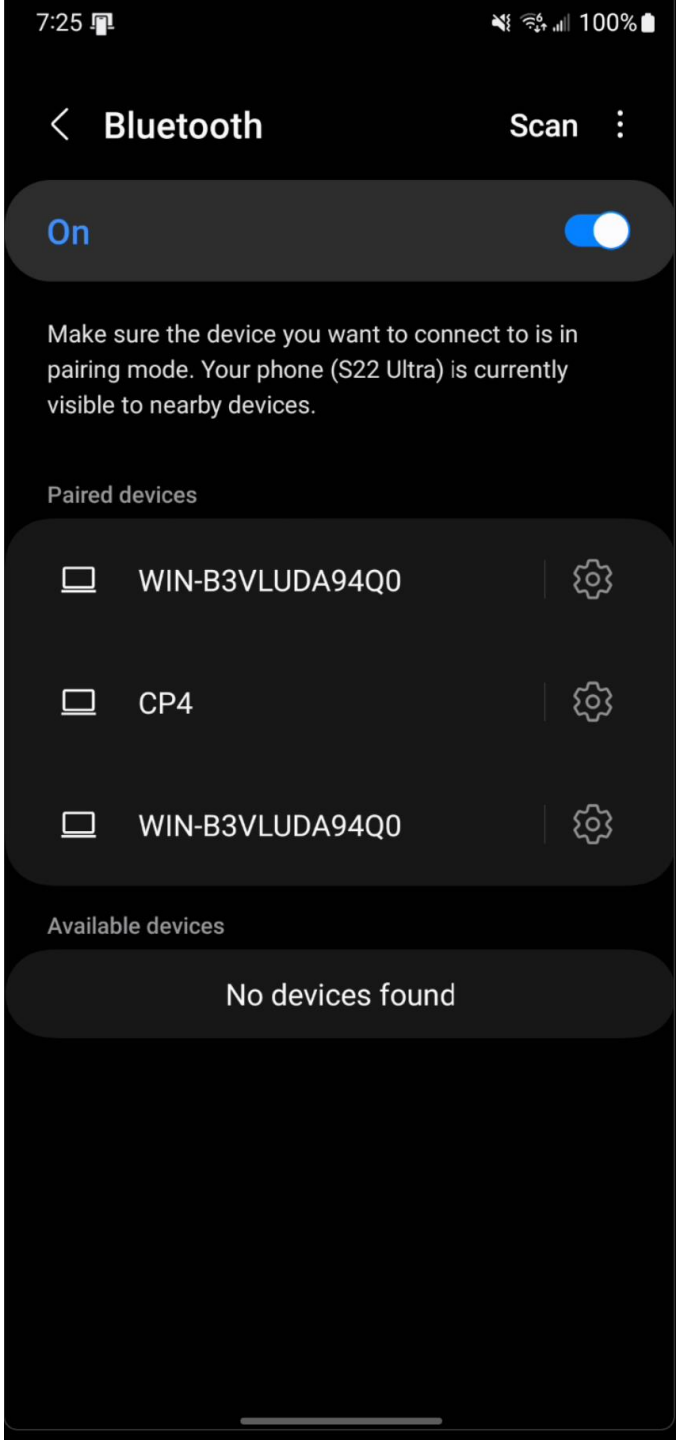
BIG STEP 100 (Activate Bluetooth pairing for the Android cell phone and the client device) (continued)

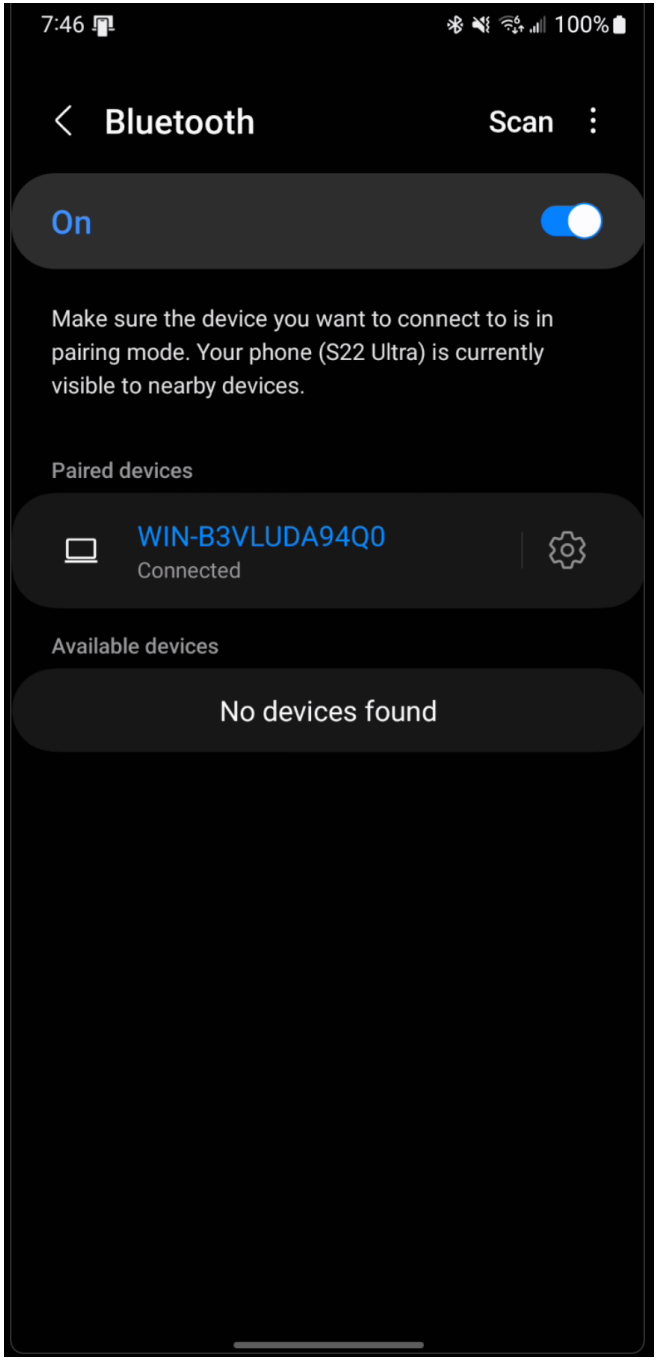
SMALL STEP 106:
Tap on the word "Bluetooth":


7:17
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 100 (Activate Bluetooth pairing for the Android cell phone and the client device) (continued)

SMALL STEP 107:
You will now see two lists:
a list of "Paired devices"
and
a list of "Available" devices:


7:25
100%
Bluetooth
Scan
On
Make sure the device you want to connect to is in pairing mode. Your phone (S22 Ultra) is currently visible to nearby devices.
Paired devices
WIN-B3VLUDA94Q0
CP4
WIN-B3VLUDA94Q0
Available devices
No devices found

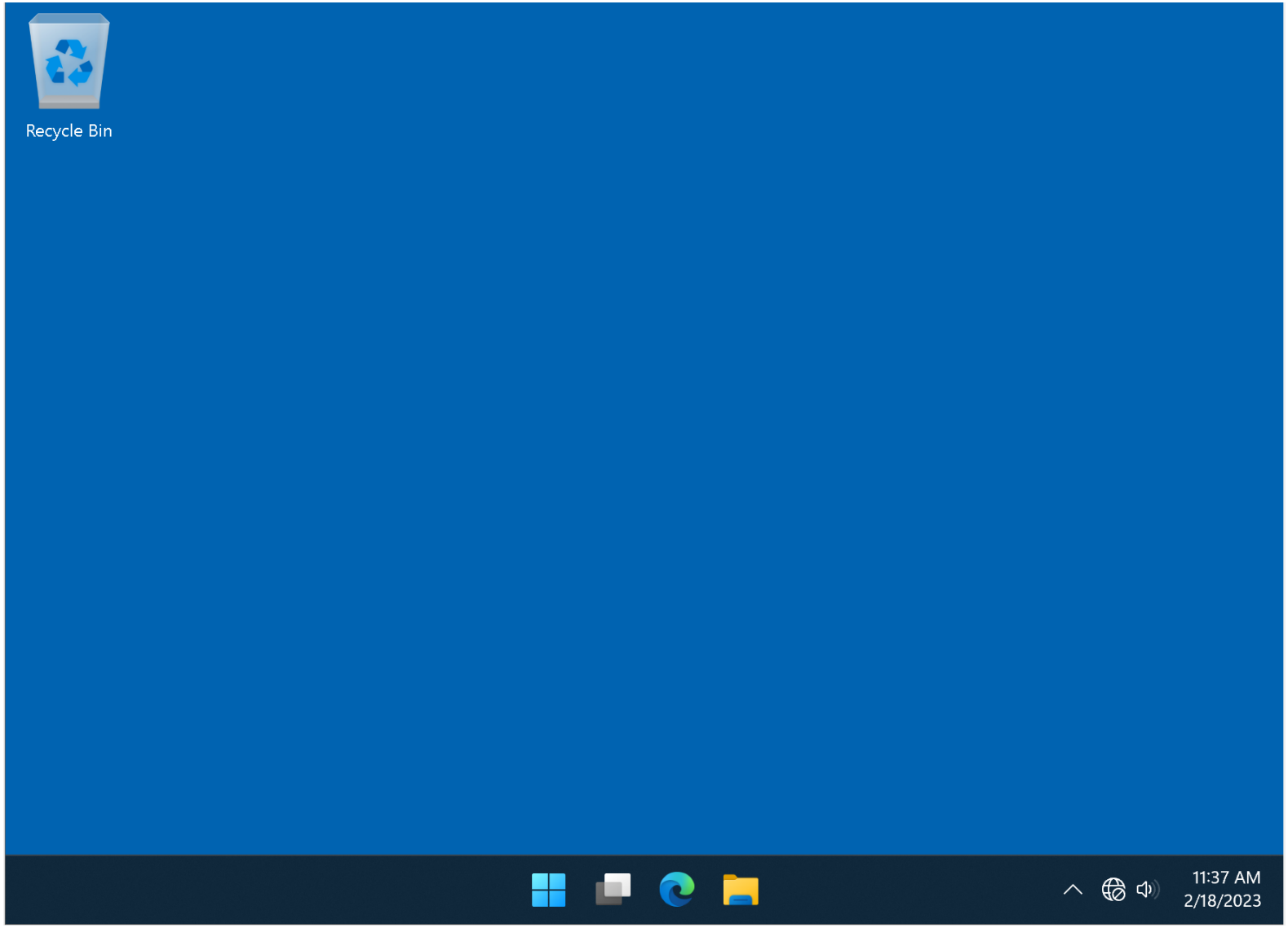

7:46
100%
Bluetooth
Scan
On
Make sure the device you want to connect to is in pairing mode. Your phone (S22 Ultra) is currently visible to nearby devices.
Paired devices
WIN-B3VLUDA94Q0
Connected
Available devices
No devices found

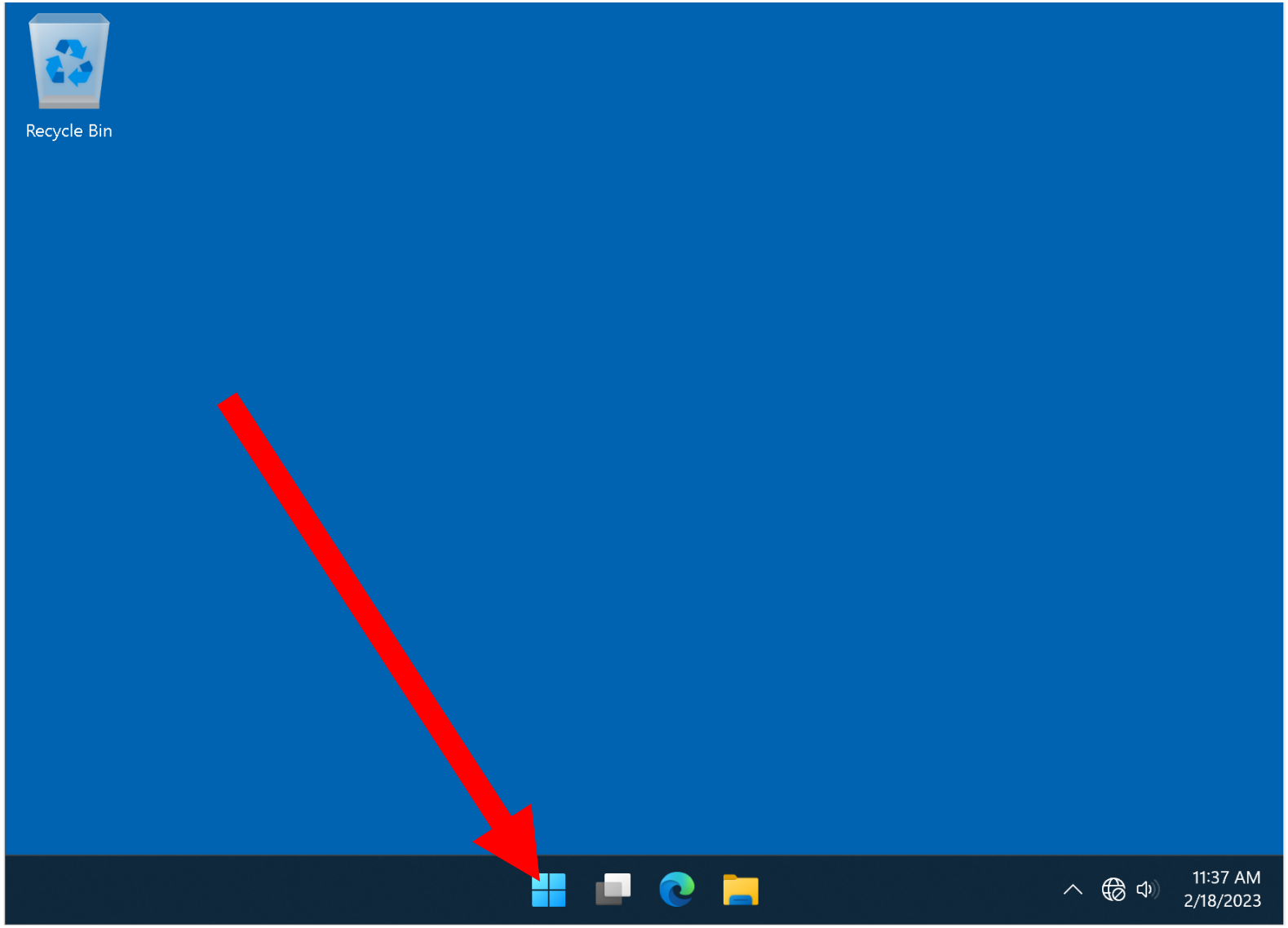
BIG STEP 100 (Activate Bluetooth pairing for the Android cell phone and the client device) (continued)

- SMALL STEP 106:
  From the client computer, tablet, or cell phone, go to either
  "Network Connections"
  or
  "Settings"

BIG STEP 100 (Activate Bluetooth pairing for the Android cell phone and the client device) (continued)

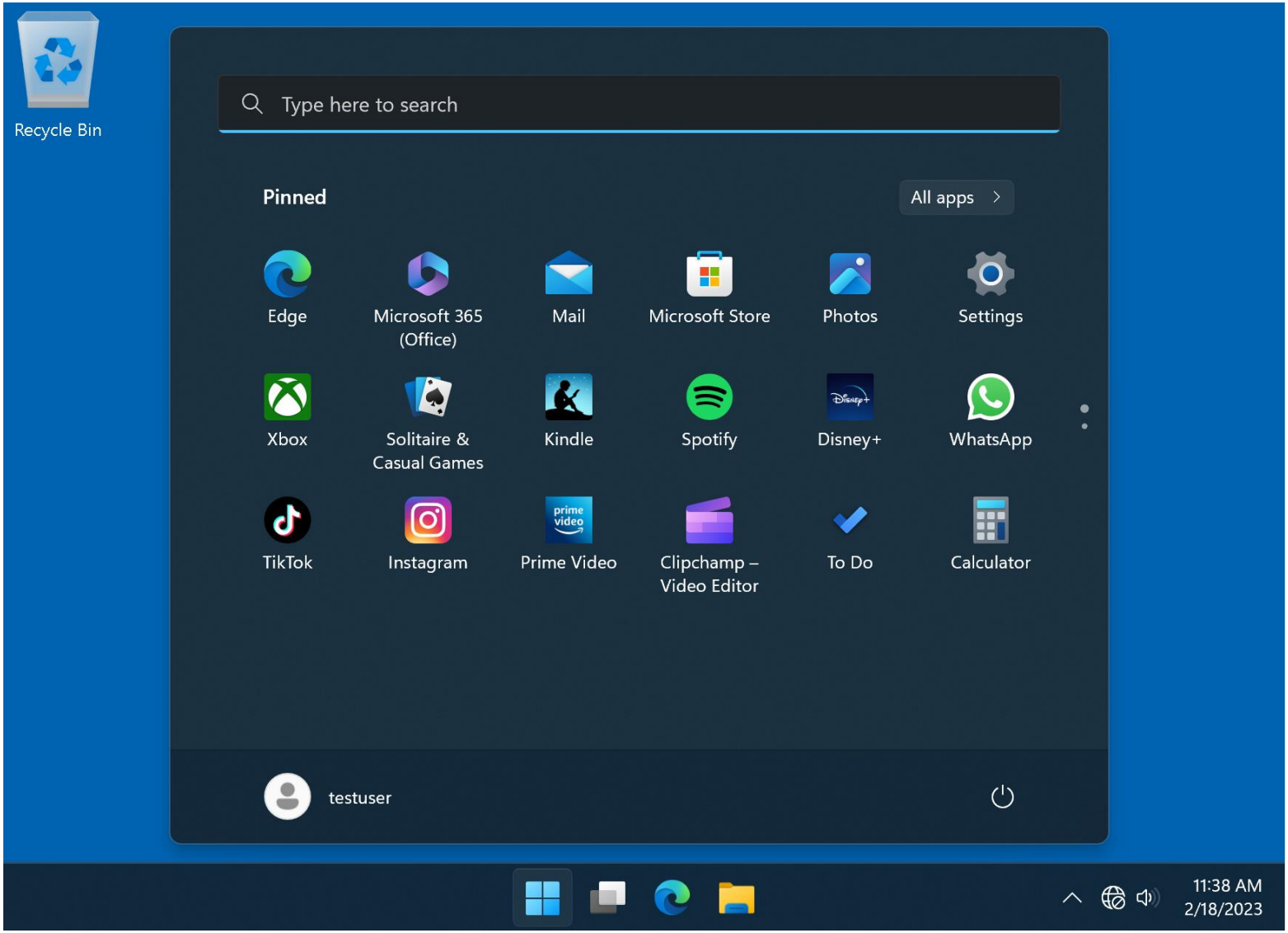
- SMALL STEP 107:
  From a Windows.. computer, use the left mouse button to click on the "Start" button:

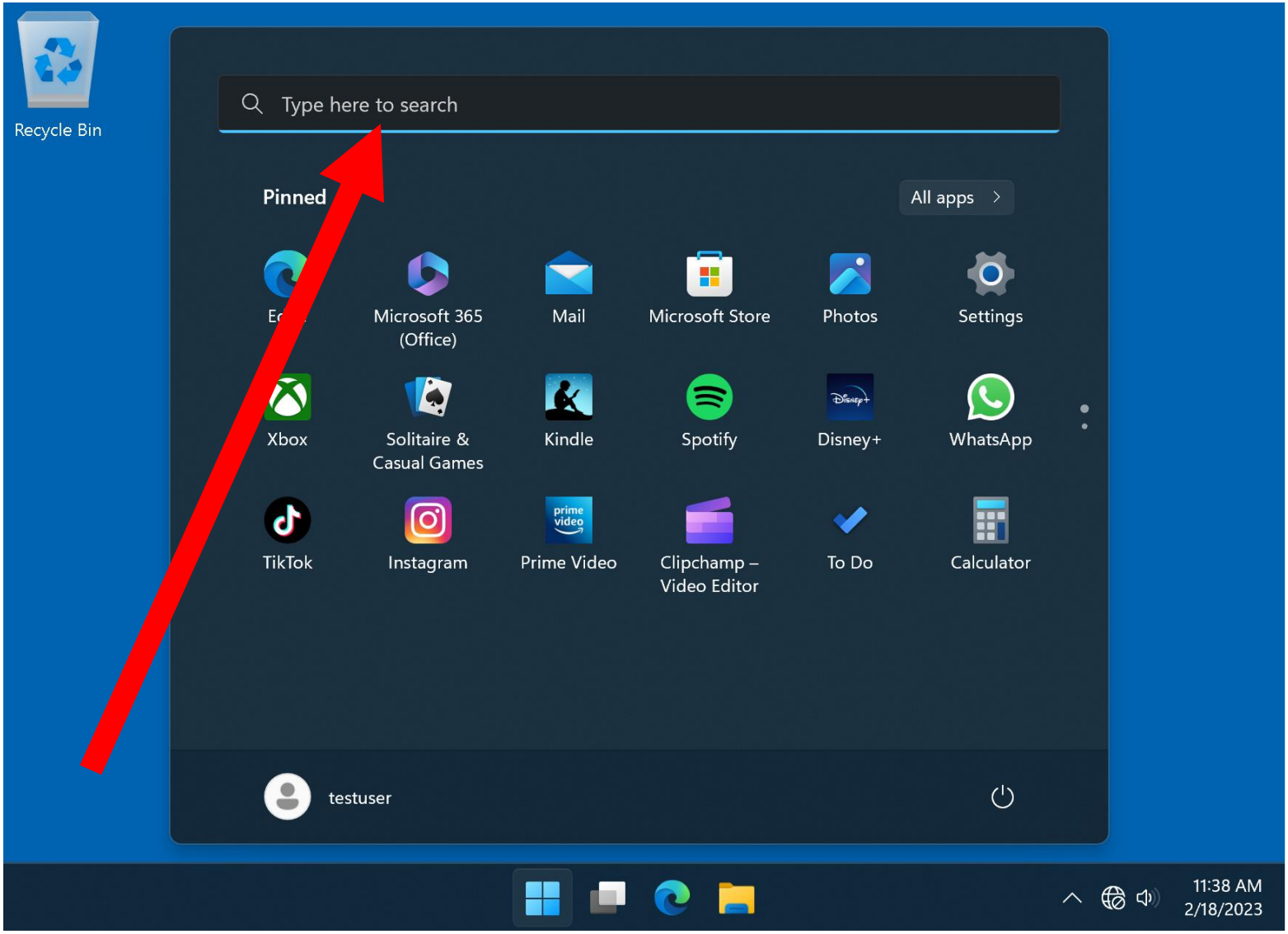

Recycle Bin
11:37 AM
2/18/2023


Recycle Bin
11:37 AM
2/18/2023

BIG STEP 100 (Activate Bluetooth pairing for the Android cell phone and the client device) (continued)

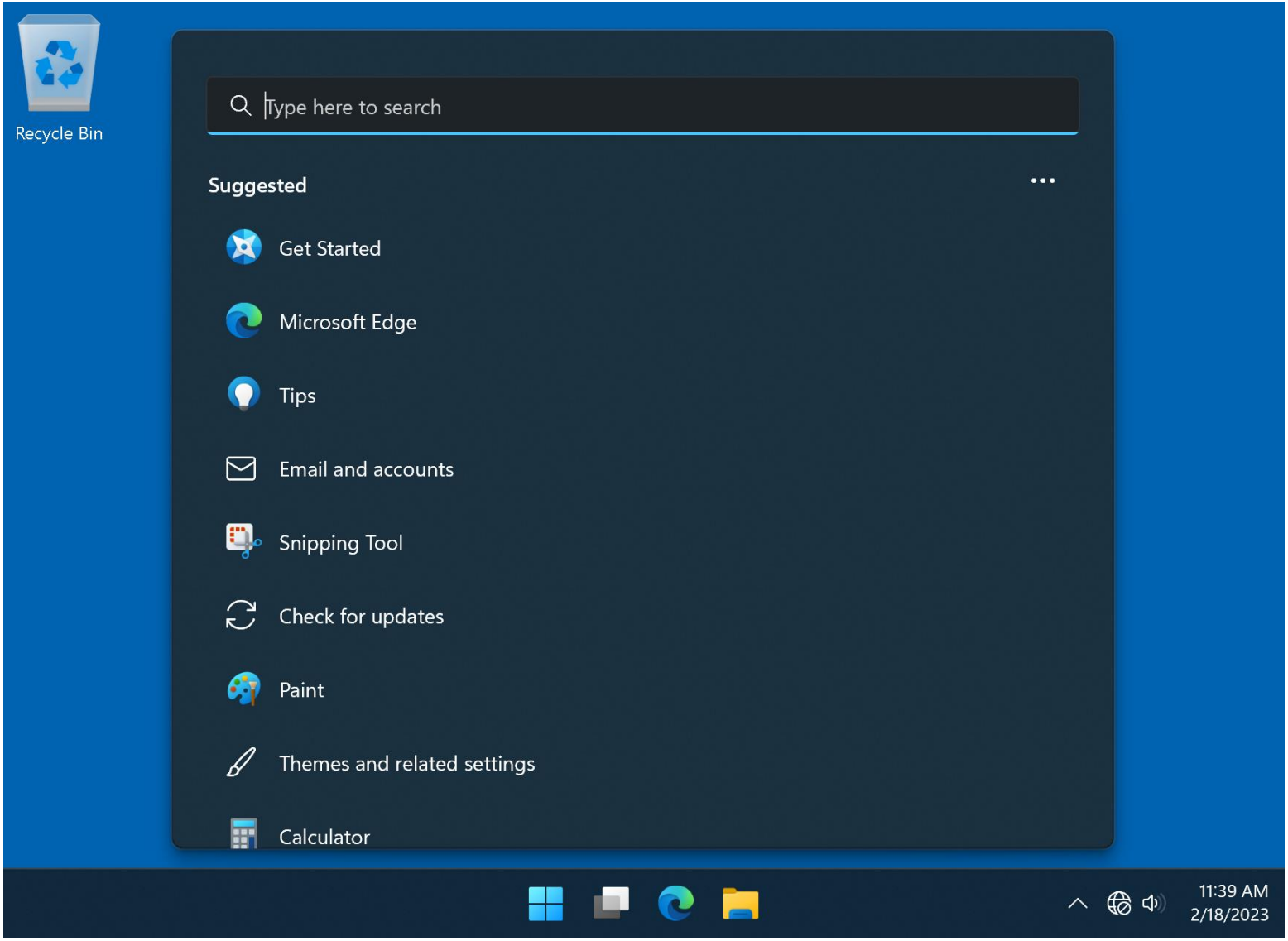
- SMALL STEP 108:
  Click on the "Search" field:


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

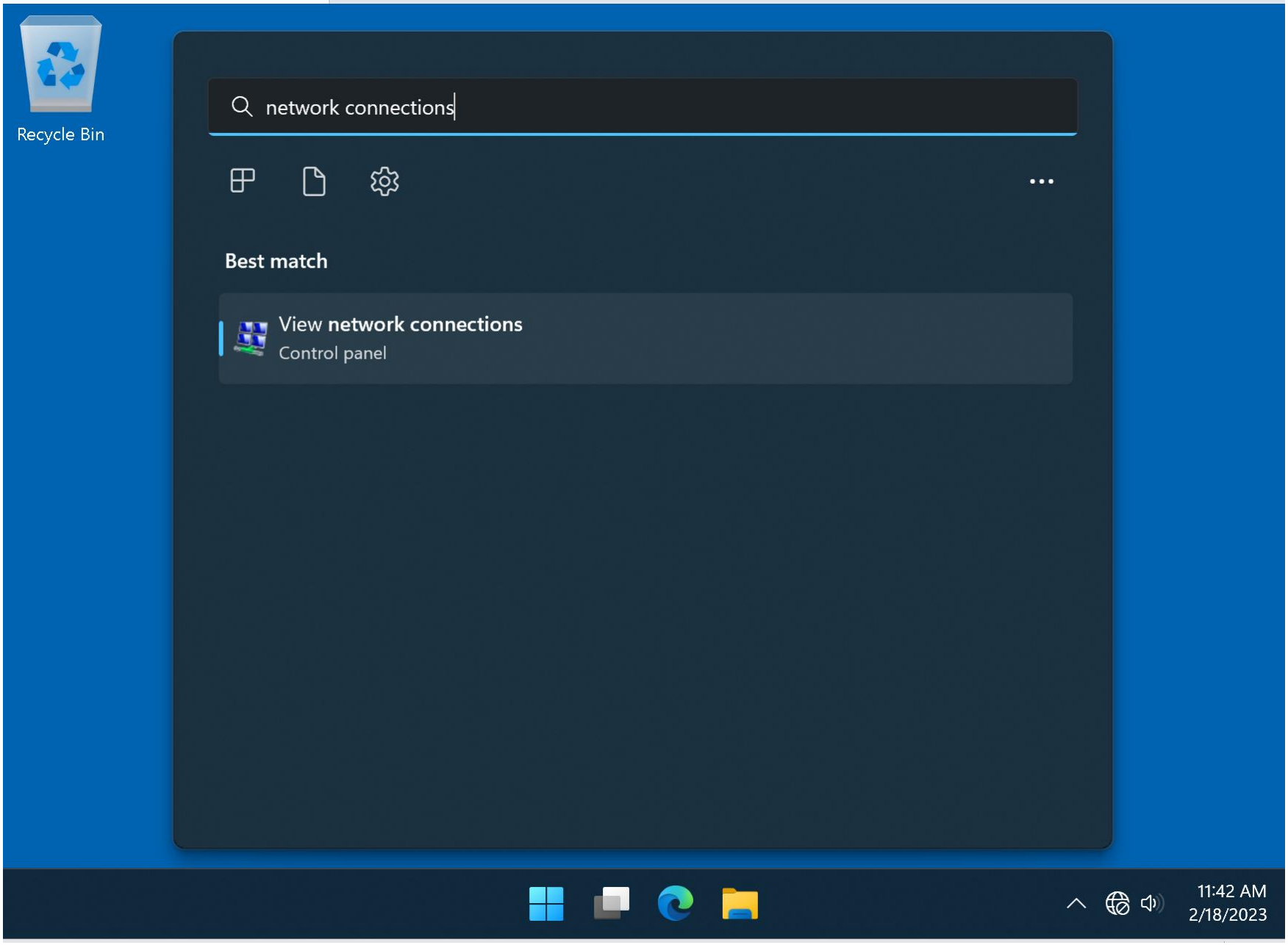
BIG STEP 100 (Activate Bluetooth pairing for the Android cell phone and the client device) (continued)

- SMALL STEP 109:
  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 100 (Activate Bluetooth pairing for the Android cell phone and the client device) (continued)

- SMALL STEP 110:
  Type in
  Network Connections
  into the search box of the pop-up window:

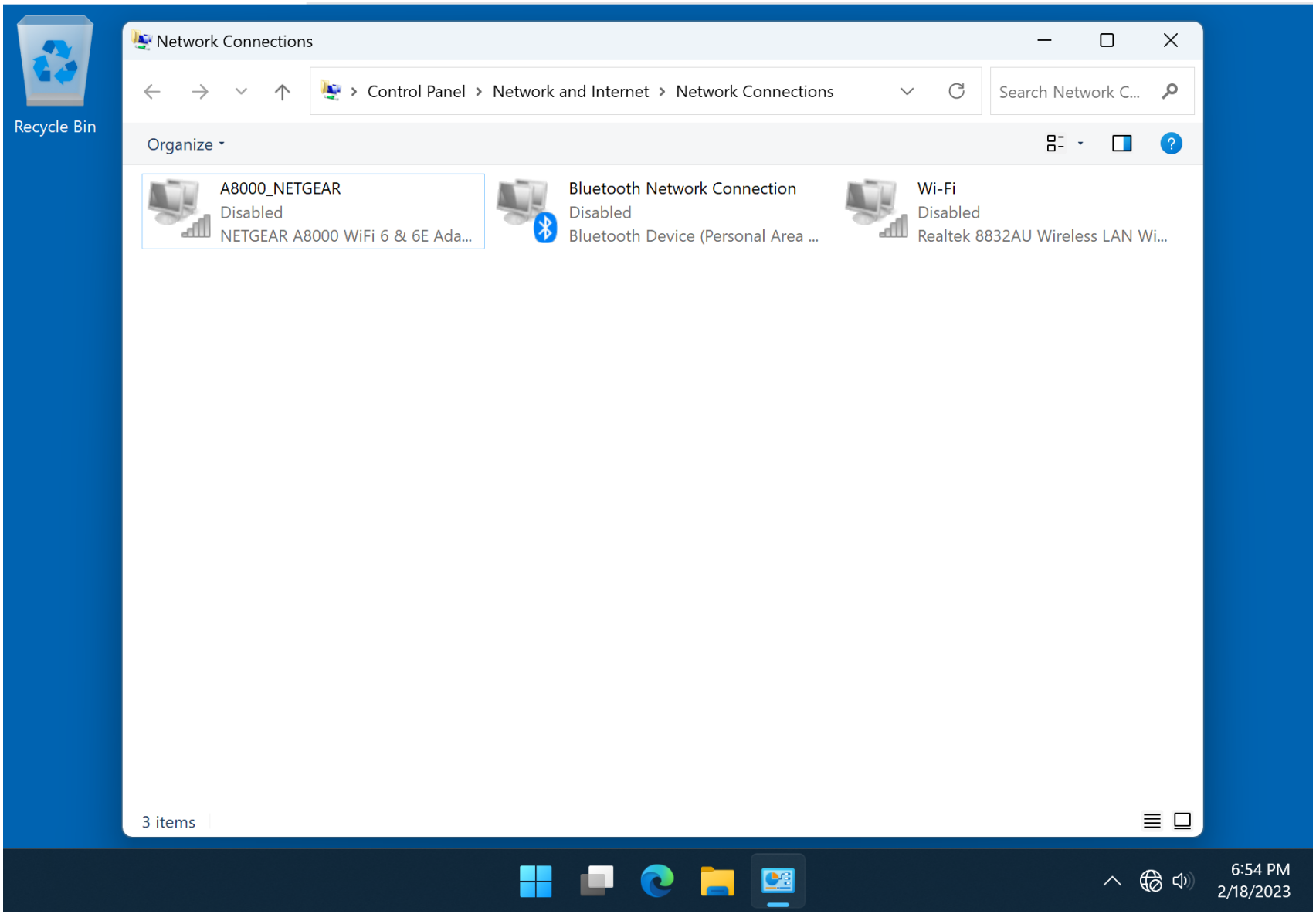

Recycle Bin
network connections
Best match
View network connections
Control panel
11:42 AM
2/18/2023

BIG STEP 100 (Activate Bluetooth pairing for the Android cell phone and the client device) (continued)

- SMALL STEP 111:
  Press the Enter key of the computer's keyboard.

BIG STEP 100 (Activate Bluetooth pairing for the Android cell phone and the client device) (continued)

- SMALL STEP 112:
  A "Network Connections" window will be displayed.


Recycle Bin
Network Connections
Control Panel › Network and Internet › Network Connections
Search Network C...
Organize
A8000_NETGEAR
Disabled
NETGEAR A8000 WiFi 6 & 6E Ada...
Bluetooth Network Connection
Disabled
Bluetooth Device (Personal Area ...
Wi-Fi
Disabled
Realtek 8832AU Wireless LAN Wi...
3 items
6:54 PM
2/18/2023

BIG STEP 100 (Activate Bluetooth pairing for the iPhone and the client device) (continued)

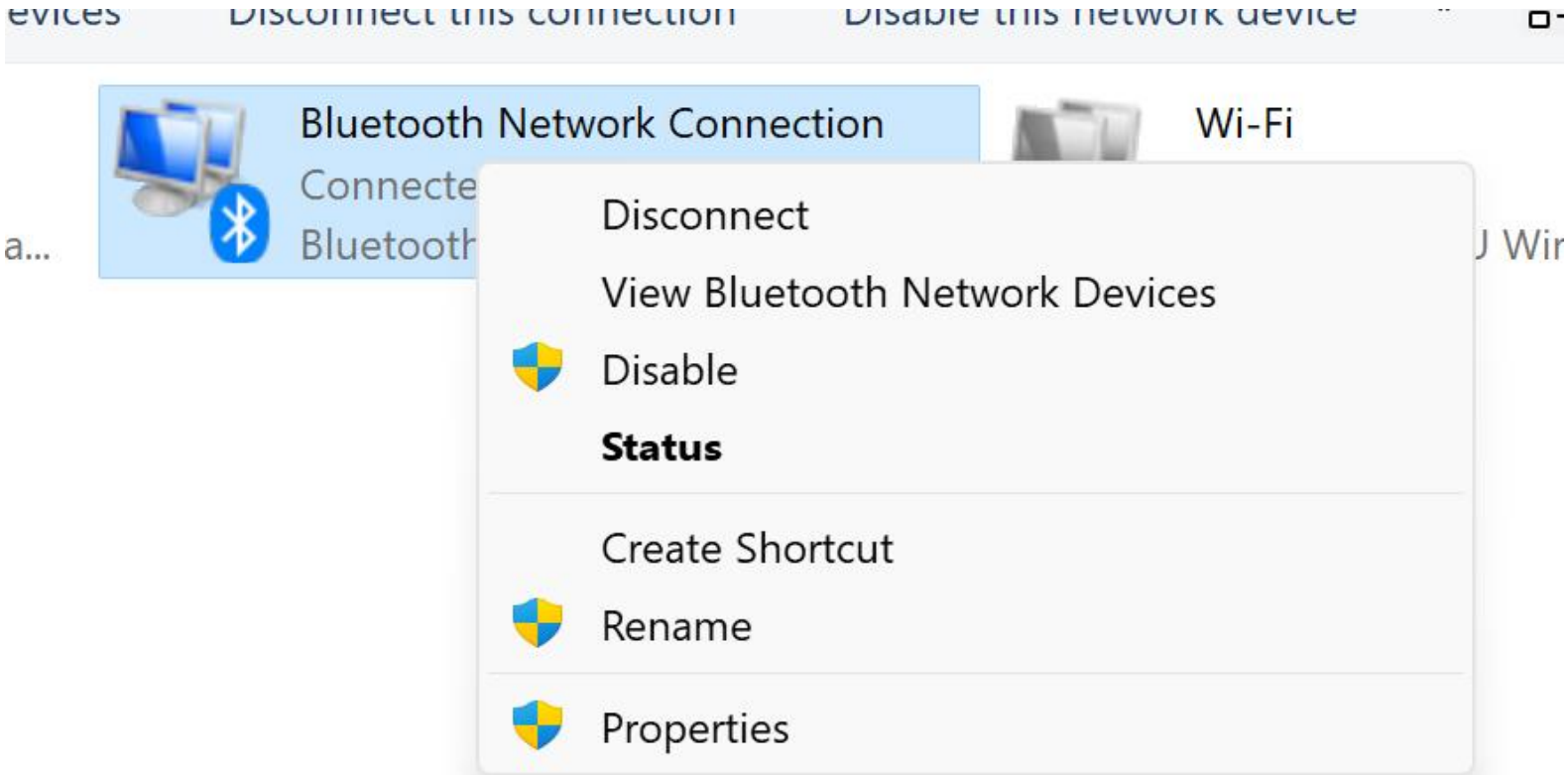
- SMALL STEP 107 (continued):
  In a Windows.. computer, if the Bluetooth icon in "Network Connections" is "disabled", use the right mouse button to click on it; then a pop-up menu will be displayed; then click on "Enable".
-

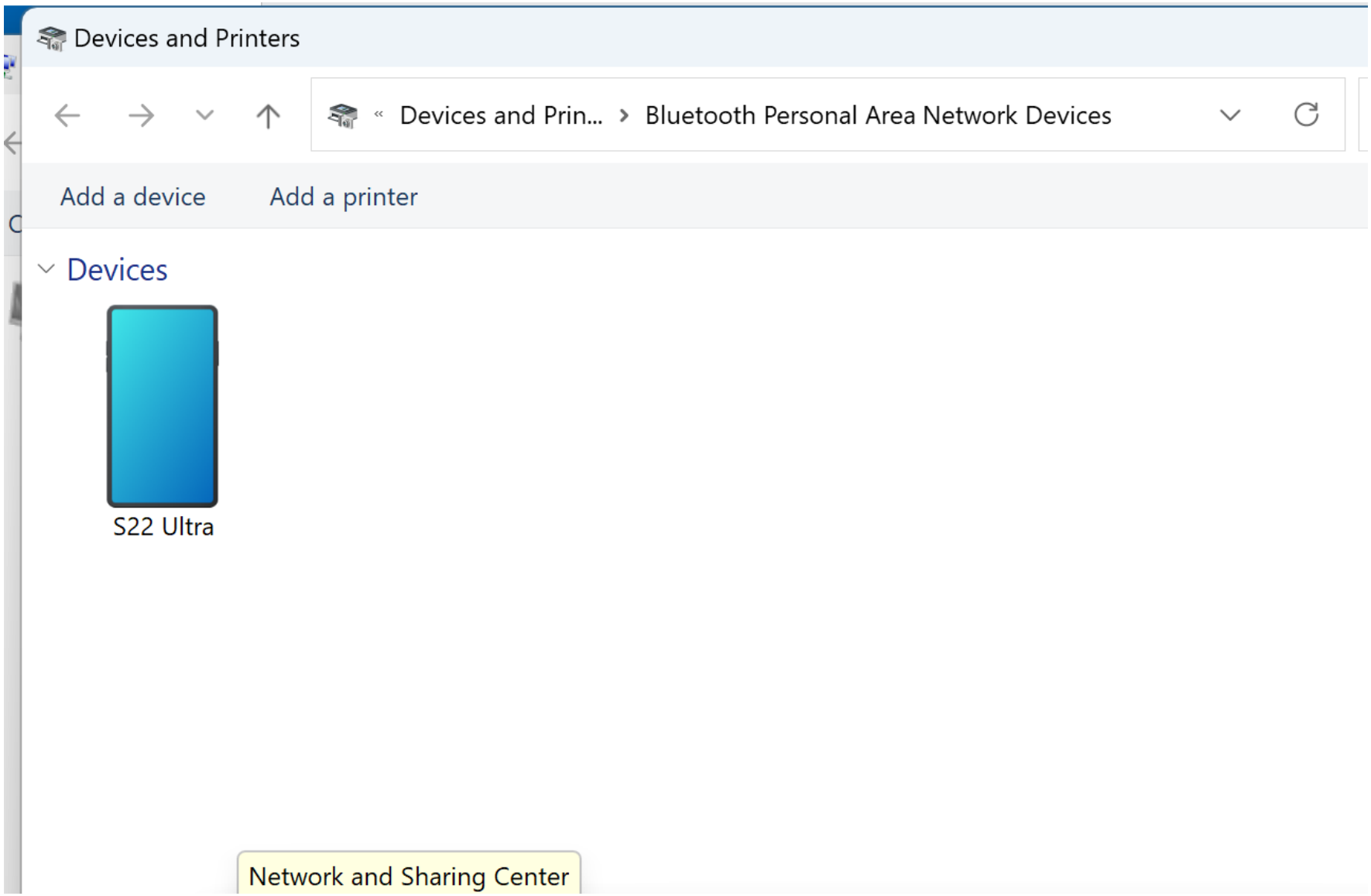
BIG STEP 100 (Activate Bluetooth pairing for the Android cell phone and the client device) (continued)

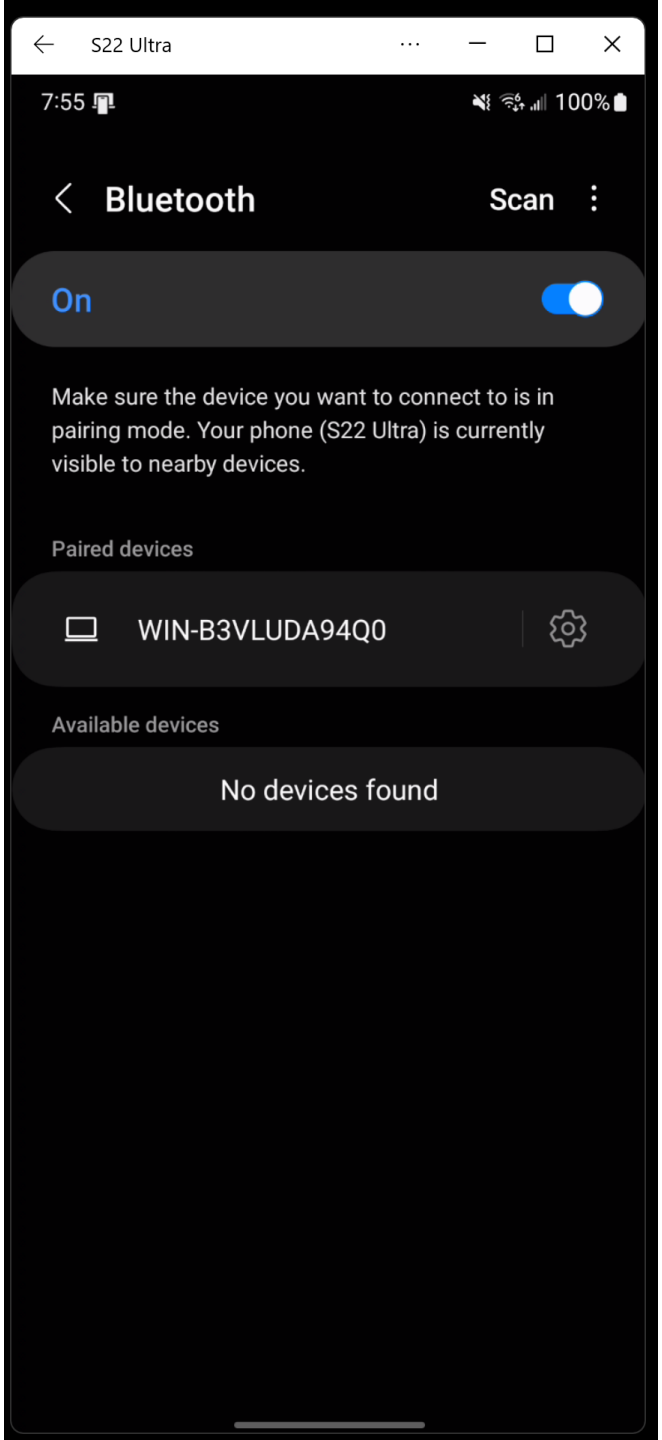
- SMALL STEP 108:
  If the "Bluetooth" icon is "Not connected", use the right mouse button to click on it; then use the left mouse button to click on "View Bluetooth Network Devices"

BIG STEP 100 (Activate Bluetooth pairing for the Android cell phone and the client device) (continued)

- BIG STEP 110:
  Use the left mouse button to click on either "View Bluetooth Network Devices" or "Show Bluetooth Devices"

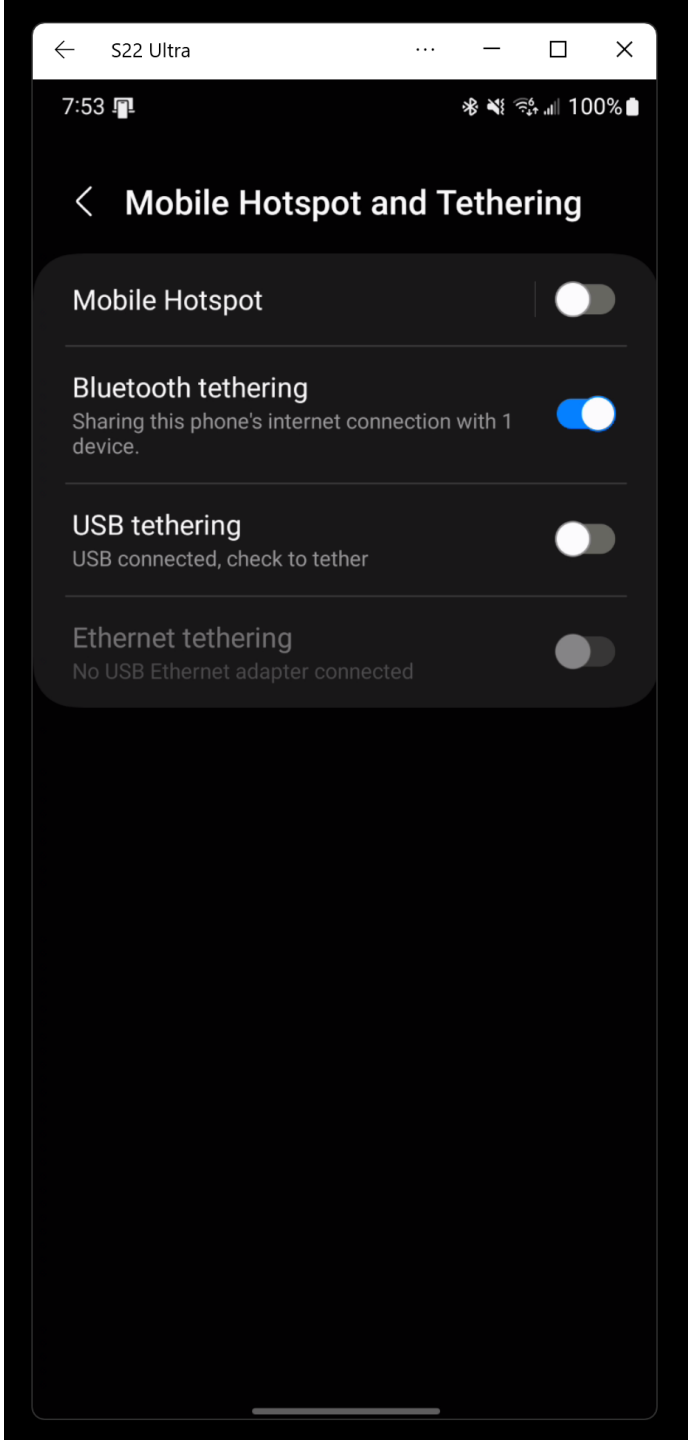

evices
Disconnect this connection
Disable this network device
Bluetooth Network Connection
Connecte
Bluetooth
Wi-Fi
a...
J Wir
Disconnect
View Bluetooth Network Devices
Disable
Status
Create Shortcut
Rename
Properties


Devices and Printers
Devices and Prin...
Bluetooth Personal Area Network Devices
Add a device
Add a printer
Devices
S22 Ultra
Network and Sharing Center


S22 Ultra
7:55
100%
Bluetooth
Scan
On
Make sure the device you want to connect to is in pairing mode. Your phone (S22 Ultra) is currently visible to nearby devices.
Paired devices
WIN-B3VLUDA94Q0
Available devices
No devices found

BIG STEP 200 (In the Android cell phone, activate "Bluetooth Tethering"

- SMALL STEP 201:
  Go to "Settings" in the Android cell phone
- SMALL STEP 202:
  Tap on "Connections"
- SMALL STEP 203:
  Enable "Bluetooth Tethering" if it is not already enabled:

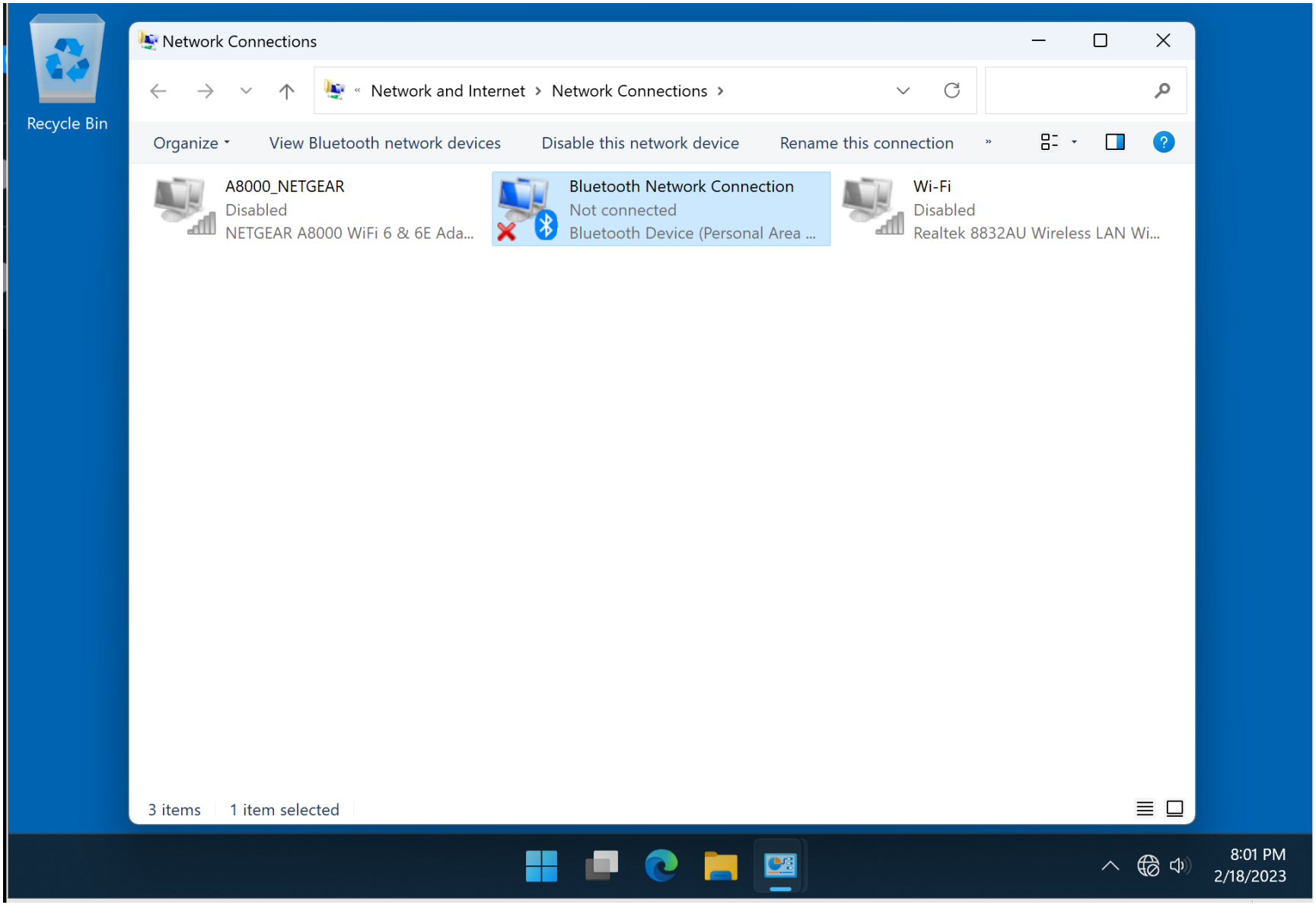

S22 Ultra
7:53
100%
Mobile Hotspot and Tethering
Mobile Hotspot
Bluetooth tethering
Sharing this phone's internet connection with 1 device.
USB tethering
USB connected, check to tether
Ethernet tethering
No USB Ethernet adapter connected

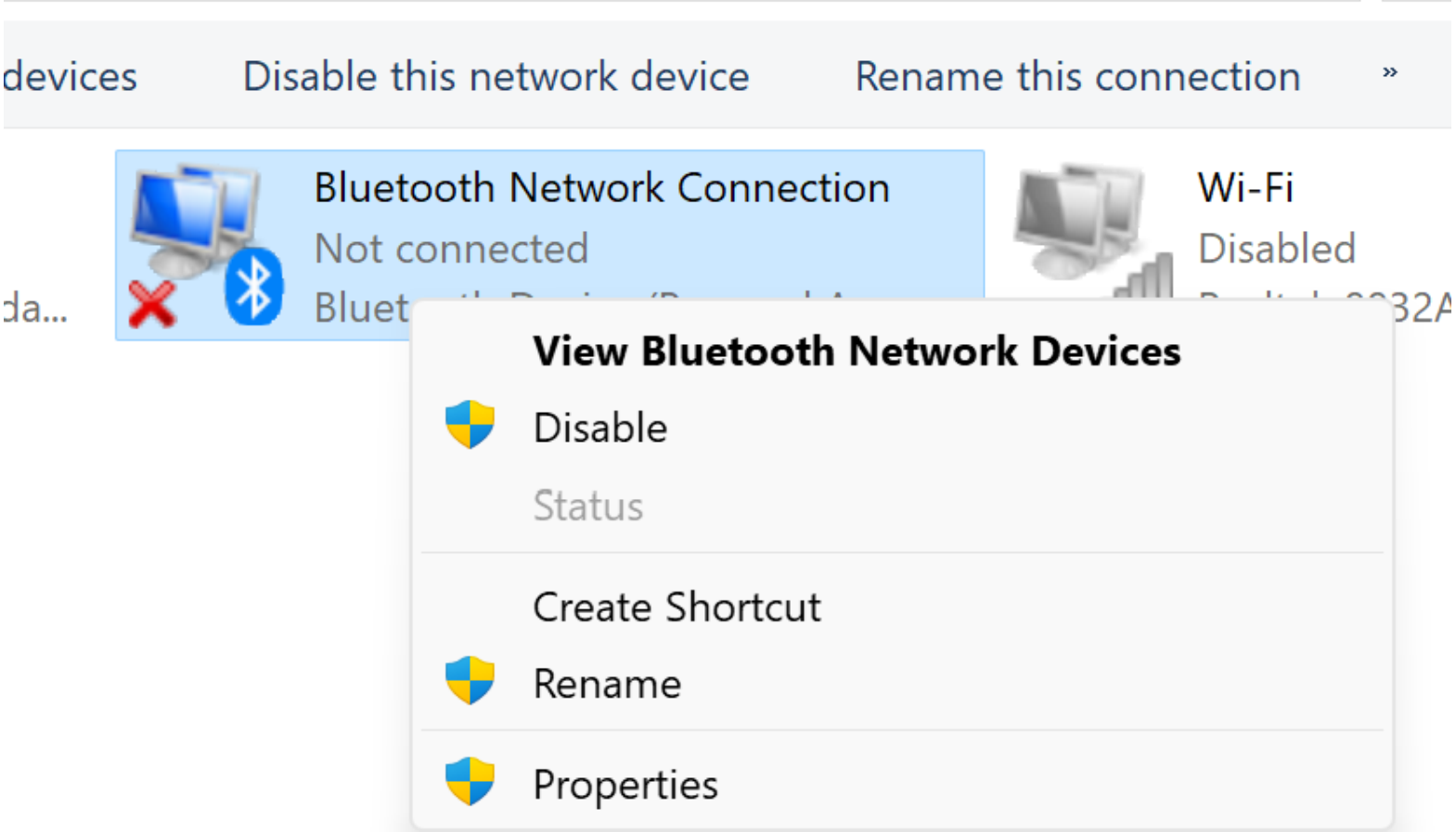
BIG STEP 300 (In "Network Connections" in Windows.., connect the Bluetooth adapter to the Android cell phone as an "Access point"

- SMALL STEP 301:
  In the Windows.. computer, go to "Network Connections"

BIG STEP 300 (In "Network Connections" in Windows.., connect the Bluetooth adapter to the Android cell phone as an "Access point"

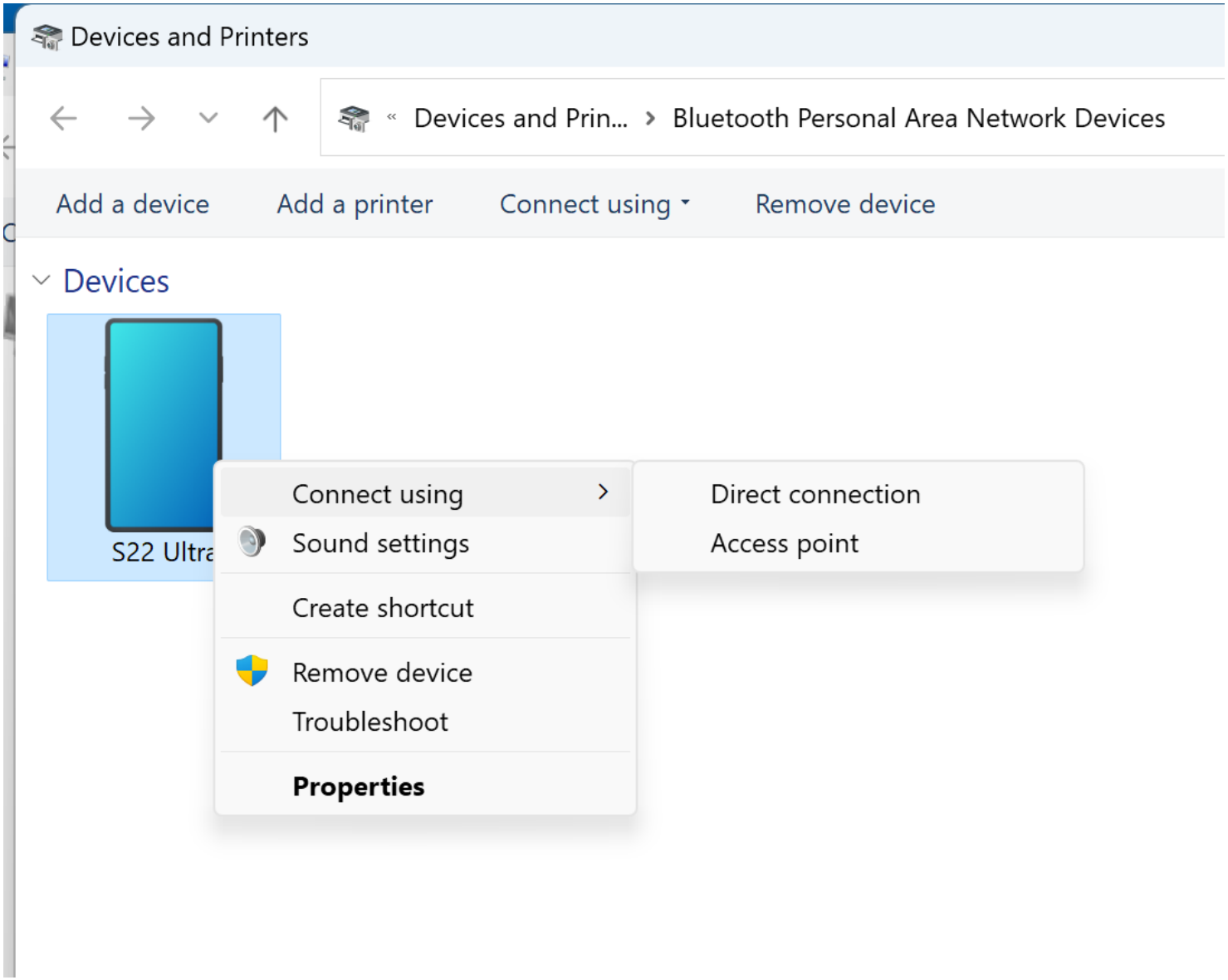
- SMALL STEP 202:
  Open the "Bluetooth Network Connection" using a double-click or a right-click

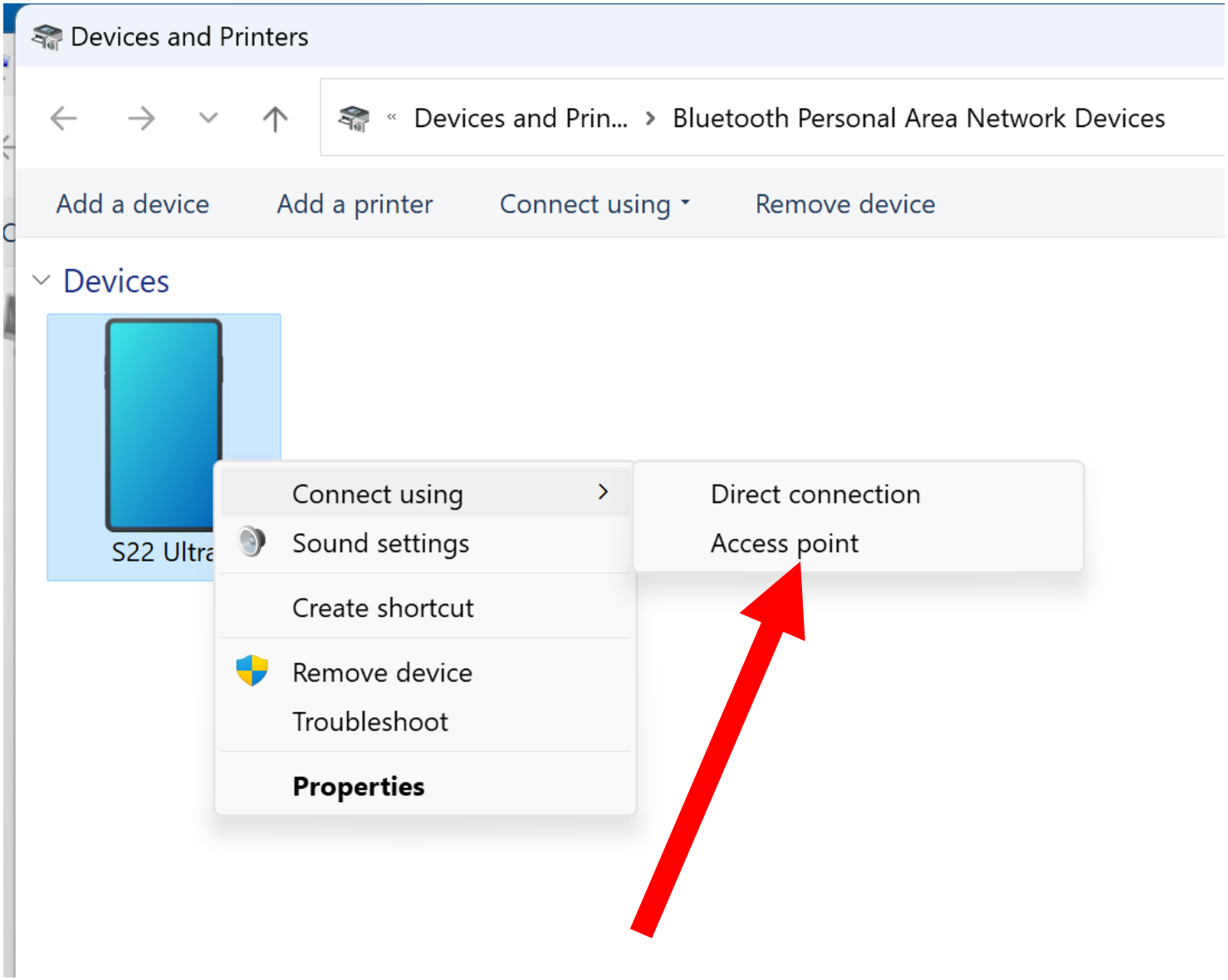

Recycle Bin
Network Connections
Network and Internet › Network Connections ›
Organize
View Bluetooth network devices
Disable this network device
Rename this connection
A8000_NETGEAR
Disabled
NETGEAR A8000 WiFi 6 & 6E Ada...
Bluetooth Network Connection
Not connected
Bluetooth Device (Personal Area ...
Wi-Fi
Disabled
Realtek 8832AU Wireless LAN Wi...
3 items
1 item selected
8:01 PM
2/18/2023

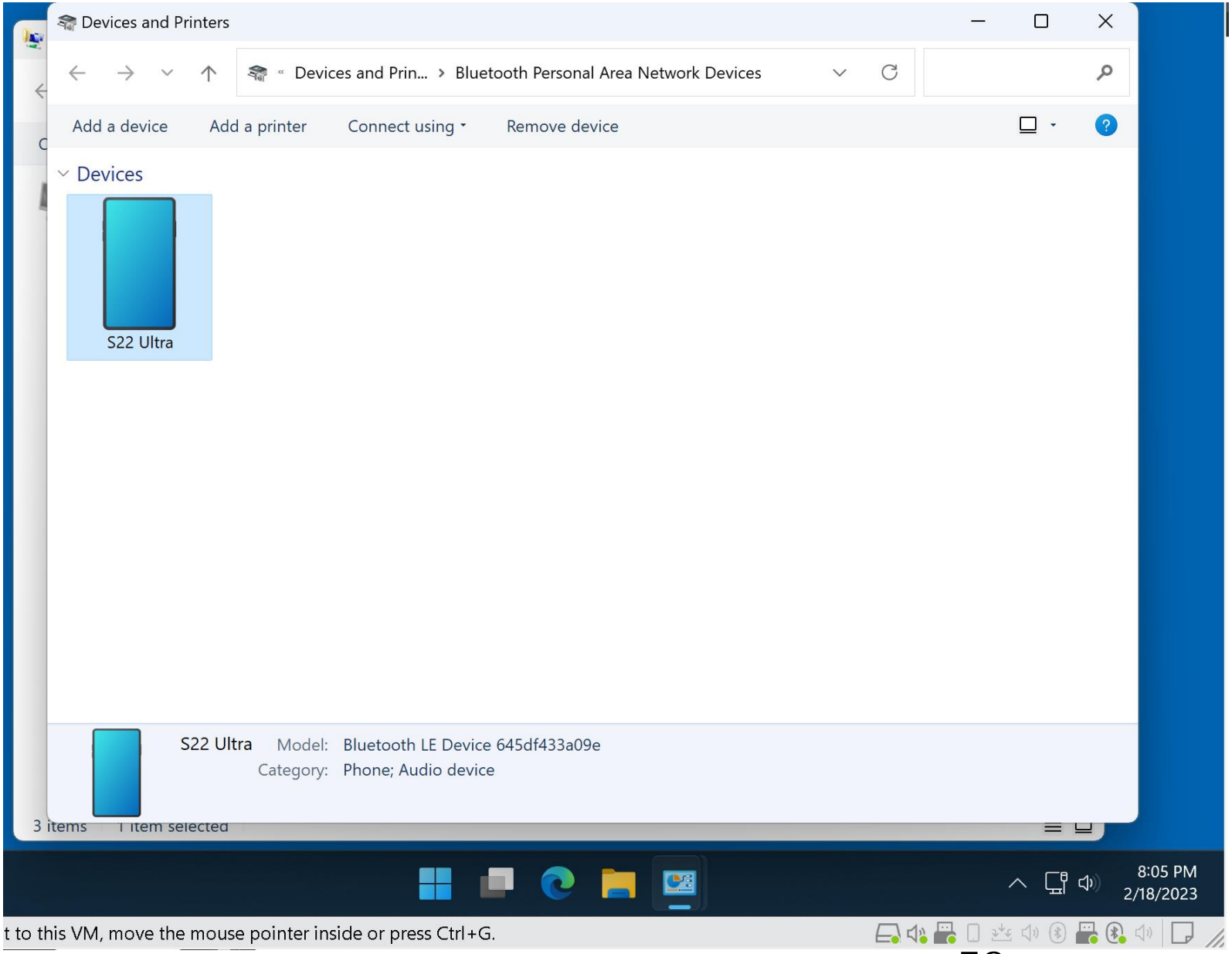

devices
Disable this network device
Rename this connection
»
Bluetooth Network Connection
Not connected
Wi-Fi
Disabled
View Bluetooth Network Devices
Disable
Status
Create Shortcut
Rename
Properties

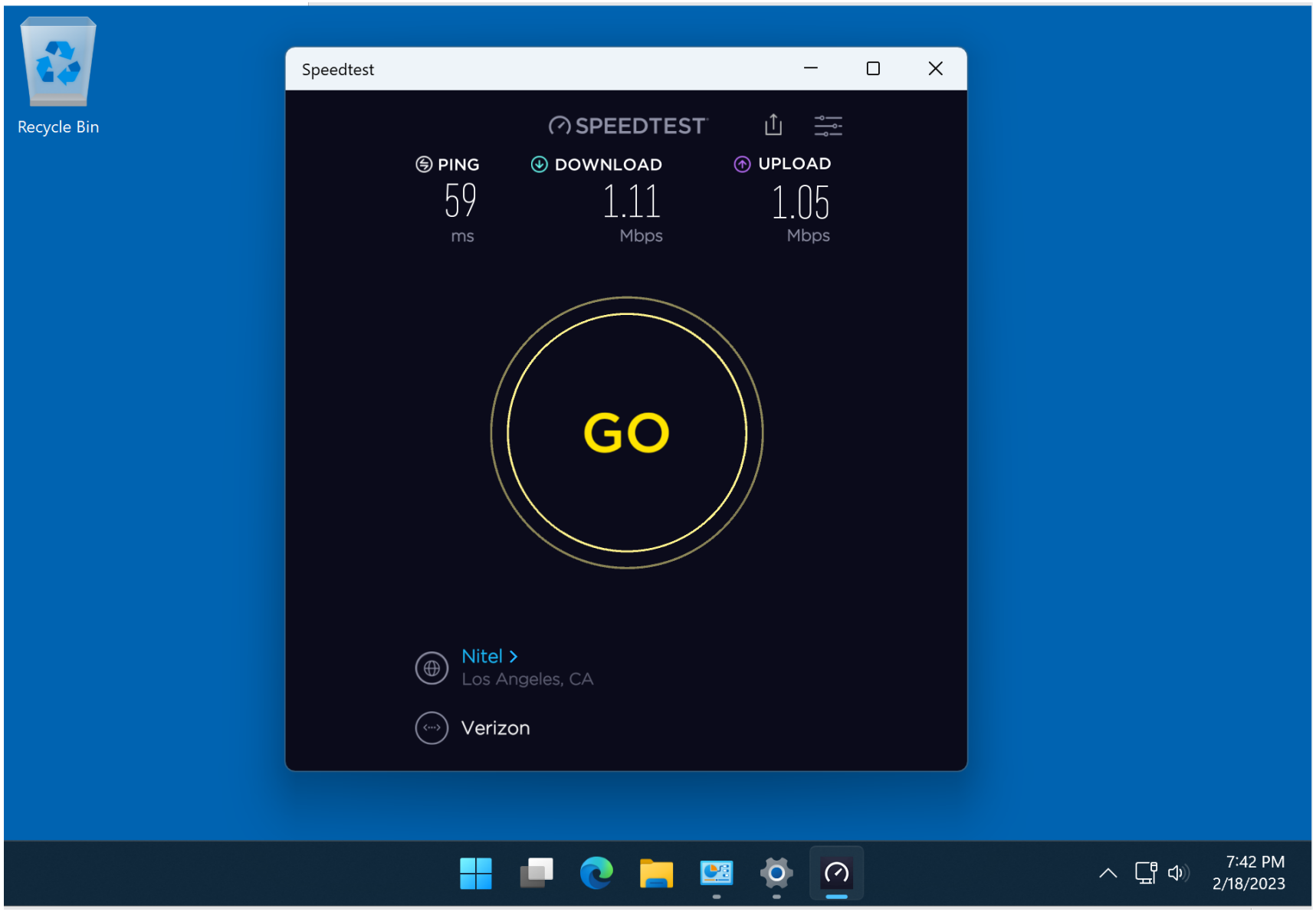
BIG STEP 300 (In "Network Connections" in Windows.., connect the Bluetooth adapter to the Android cell phone as an "Access point"

- SMALL STEP 203:
  Connect to the cell phone as an "Access Point"


Devices and Printers
Devices and Prin...
Bluetooth Personal Area Network Devices
Add a device
Add a printer
Connect using
Remove device
Devices
S22 Ultra
Connect using
Sound settings
Create shortcut
Remove device
Troubleshoot
Properties
Direct connection
Access point


Devices and Printers
Devices and Prin...
Bluetooth Personal Area Network Devices
Add a device
Add a printer
Connect using
Remove device
Devices
S22 Ultra
Connect using
Sound settings
Create shortcut
Remove device
Troubleshoot
Properties
Direct connection
Access point


Devices and Printers
Devices and Prin... › Bluetooth Personal Area Network Devices
Add a device
Add a printer
Connect using
Remove device
Devices
S22 Ultra
S22 Ultra Model: Bluetooth LE Device 645df433a09e
Category: Phone; Audio device
3 items 1 item selected
8:05 PM
2/18/2023
t to this VM, move the mouse pointer inside or press Ctrl+G.


Recycle Bin
Speedtest
SPEEDTEST
PING
59
ms
DOWNLOAD
1.11
Mbps
UPLOAD
1.05
Mbps
GO
Nitel >
Los Angeles, CA
Verizon
7:42 PM
2/18/2023