

6--TETHERING FROM A "LIGHTNING-TO-USB CABLE FROM AN "iPHONE" TO A "WINDOWS.." COMPUTER

by Francis Chao

fchao2@yahoo.com

TuCOMPUTER
Cson
OCIETY



Web location for this
presentation:

<http://aztcs.apcug.org>

Click on

"Meeting Notes"

SUMMARY

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

TOPICS

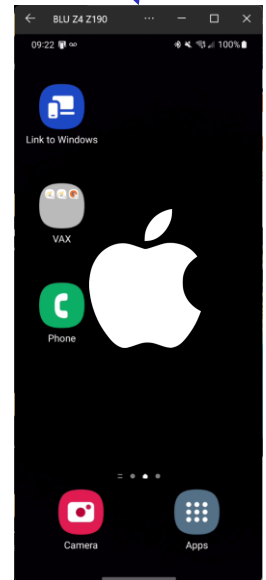
- Three ways to tethering/hotspotting to an "iPhone"
- Advantage of using USB tethering from an "iPhone"
- "iTunes for Windows" is required for USB tethering between "iPhone" and "Windows.."
- Big Steps (for computer experts)
- Small Steps (for the rest of us)

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



Option 3:

**"iPhone" is tethered with a
Lightning-to-USB cable
so that a
"Windows.." computer 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
"Lightning to USB" cable

~~Option 3: tethering using Bluetooth~~

~~Option 4: tethering using an add on
wired Ethernet adapter~~

"TETHERING" AND "HOTSPOT" USING AN "iPHONE"

- Three ways to tether or create a hotspot with an "iPhone":

Option 1: tethering using Wi-Fi

Option 2: tethering using a
"Lightning-to-USB" cable

Option 3: tethering using Bluetooth

ADVANTAGE OF USING A USB TETHERING FROM AN "iPHONE"

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

BIG STEP 100 (= Install "iTunes for Windows" into the "Windows.." computer)

SMALL STEP 101:

Using the "Windows.." computer, use a Web browser to go to

<https://support.apple.com/downloads/itunes>

Apple - Support - Downloads


https://support.apple.com/downloads/itunes

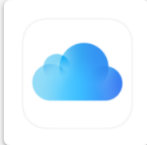
StoreMaciPadiPhoneWatchAirPodsTV & HomeOnly on AppleAccessoriesSupport


Downloads

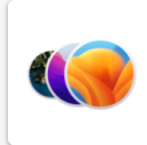
Downloads in other languages


Browse Downloads by Product


iTunes

iCloud

iOS


macOS

Mac laptops

Mac desktops

Search


10 Results for "iTunes"



iTunes 12.10.11 for Windows (Windows 32 bit)

iTunes is the easiest way to enjoy your favorite music, movies, TV shows, and more on your PC....


Dec 7, 2020 [Download](#)



iTunes 12.10.11 for Windows (Windows 64 bit)

iTunes is the easiest way to enjoy your favorite music, movies, TV shows, and more on your PC....

Dec 7, 2020 [Download](#)



Download iTunes for Windows

Apple Music's Browse tab now shows more editorial highlights on a single page making it...

Mar 25, 2019 [Download](#)

BIG STEP 100 (= Install "iTunes for Windows" into the "Windows.." computer)

SMALL STEP 102:

Download the appropriate installation file for "iTunes for Windows":

Apple - Support - Downloads


https://support.apple.com/downloads/itunes

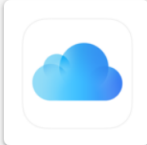
StoreMaciPadiPhoneWatchAirPodsTV & HomeOnly on AppleAccessoriesSupport


Downloads

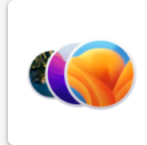
Downloads in other languages


Browse Downloads by Product


iTunes

iCloud

iOS


macOS

Mac laptops

Mac desktops

Search

10 Results for "iTunes"




iTunes 12.10.11 for Windows (Windows 32 bit)

iTunes is the easiest way to enjoy your favorite music, movies, TV shows, and more on your PC....

Dec 7, 2020

Download



iTunes 12.10.11 for Windows (Windows 64 bit)

iTunes is the easiest way to enjoy your favorite music, movies, TV shows, and more on your PC....

Dec 7, 2020

Download

Download iTunes for Windows

Apple Music's Browse tab now shows more editorial highlights on a single page making it...




Apple - Support - Downloads x +

support.apple.com/downloads/itunes

iTunes iCloud iOS macOS Mac laptops Mac desktops

Search Downloads Search

10 Results for "iTunes"

 iTunes 12.10.11 for Windows (Windows 32 bit) iTunes is the easiest way to enjoy your favorite music, movies, TV shows, and more on your PC.... Dec 7, 2020 Download	 iTunes 12.10.11 for Windows (Windows 64 bit) iTunes is the easiest way to enjoy your favorite music, movies, TV shows, and more on your PC.... Dec 7, 2020 Download	 Download iTunes for Windows Apple Music's Browse tab now shows more editorial highlights on a single page making it... Mar 25, 2019 Download
---	--	--

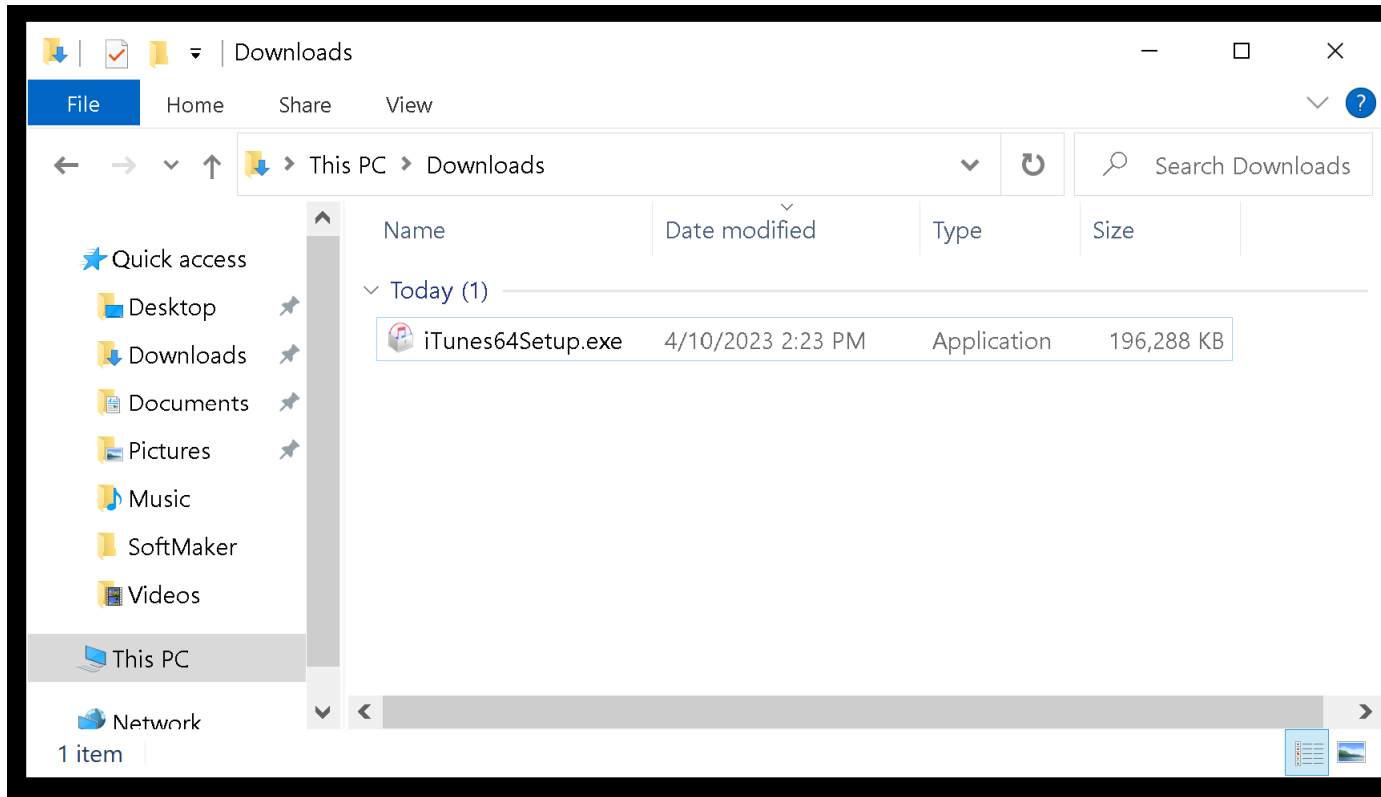
iTunes64Setup.exe ^

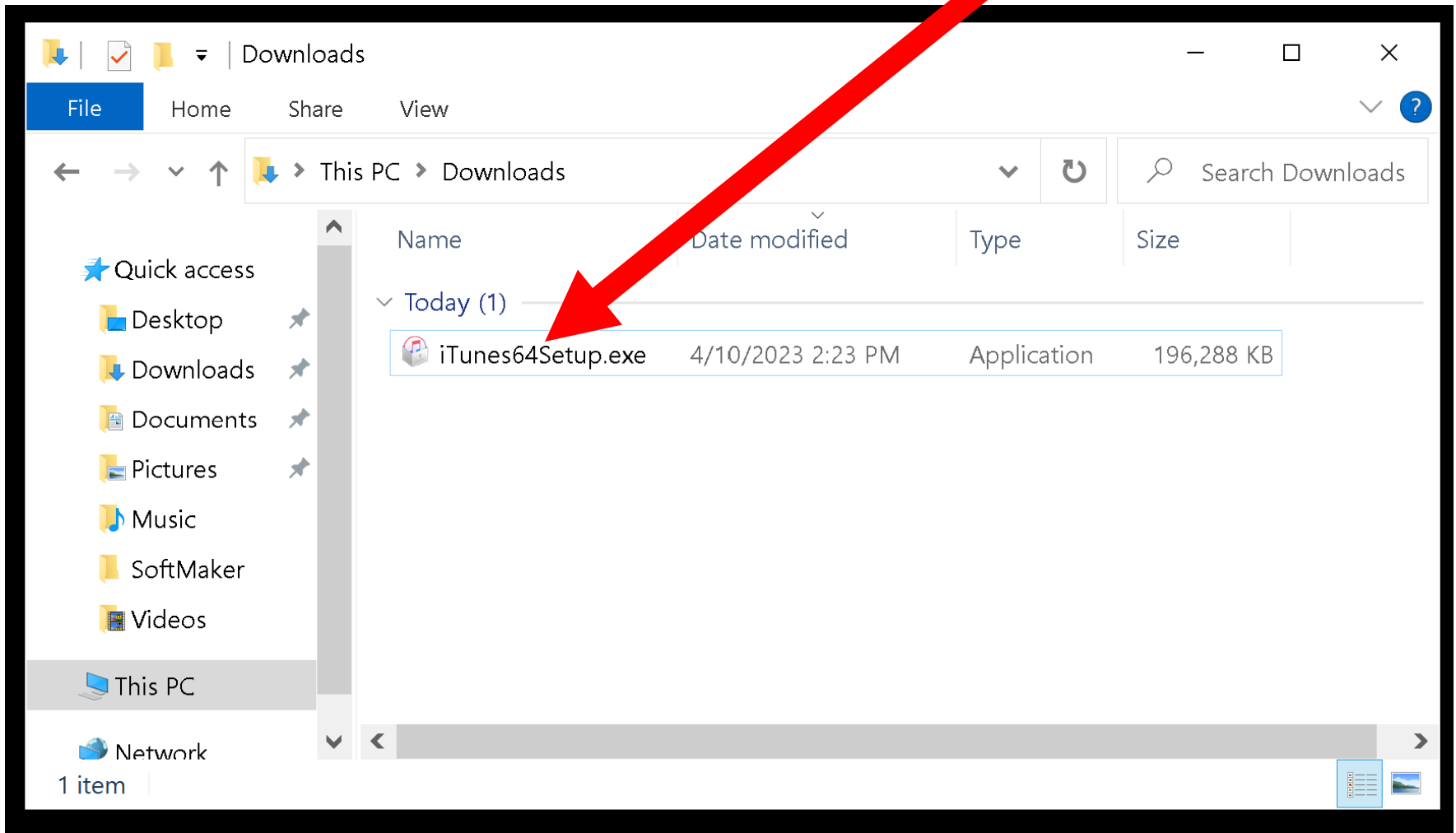
Show all x

BIG STEP 100 (= Install "iTunes for Windows" into the "Windows.." computer)

SMALL STEP 103:

Locate the installation file for "iTunes for Windows" and double-click on it:







Welcome to iTunes

iTunes is the easiest way to enjoy your favorite music, movies, TV shows, and more on your PC.

iTunes now includes Apple Music – a revolutionary music service, the all-new Apple Music 1 live radio station, and an exciting new way for fans to connect with their favorite artists. Become a member to play from millions of songs in the Apple Music catalog, or keep them offline for playback later.

Apple Music is joined by the iTunes Store, where you can download everything you need to be entertained. Your purchases are stored in iCloud and are available on your devices at no additional cost.

To get started installing iTunes, click Next.

12.10.11.2 x64

< Back

Next >

Cancel

Welcome to iTunes

iTunes is the easiest way to enjoy your favorite music, movies, TV shows, and more on your PC.

iTunes now includes Apple Music – a revolutionary music service, the all-new Apple Music 1 live radio station, and an exciting new way for fans to connect with their favorite artists. Become a member to play from millions of songs in the Apple Music catalog, or keep them offline for playback later.

Apple Music is joined by the iTunes Store, where you can download everything you need to be entertained. Your purchases are stored in iCloud and are available on your devices at no additional cost.

To get started installing iTunes, click Next.

12.10.11.2 x64

< Back

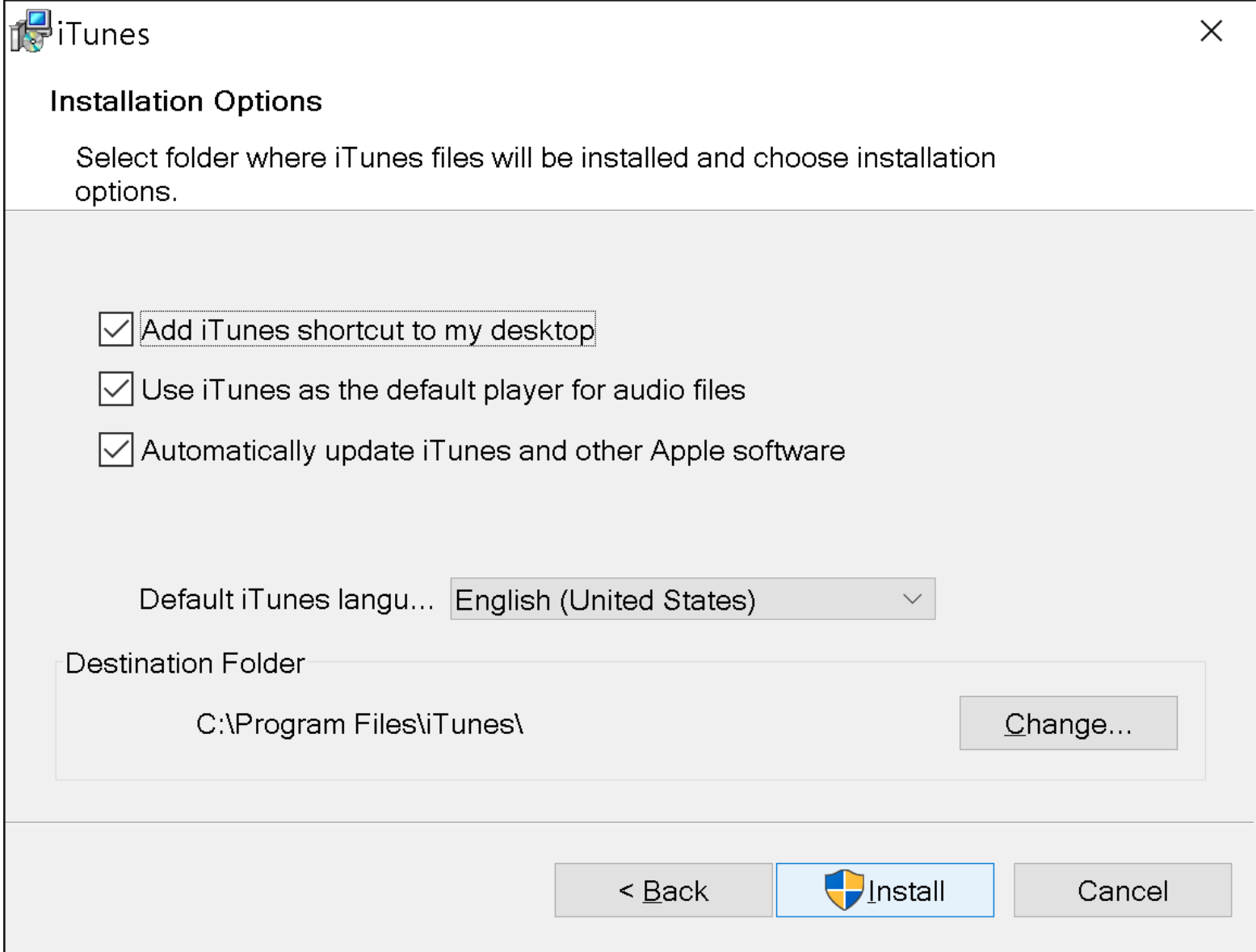
Next >

Cancel

BIG STEP 100 (Install "iTunes for Windows" into the "Windows.." computer)

SMALL STEP 104:

Remove the checkmarks from these options:





iTunes



Installation Options

Select folder where iTunes files will be installed and choose installation options.

- ☐ Add iTunes shortcut to my desktop
- ☐ Use iTunes as the default player for audio files
- ☐ Automatically update iTunes and other Apple software

Default iTunes langu... English (United States) ▾

Destination Folder

C:\Program Files\iTunes\

Change...

< Back

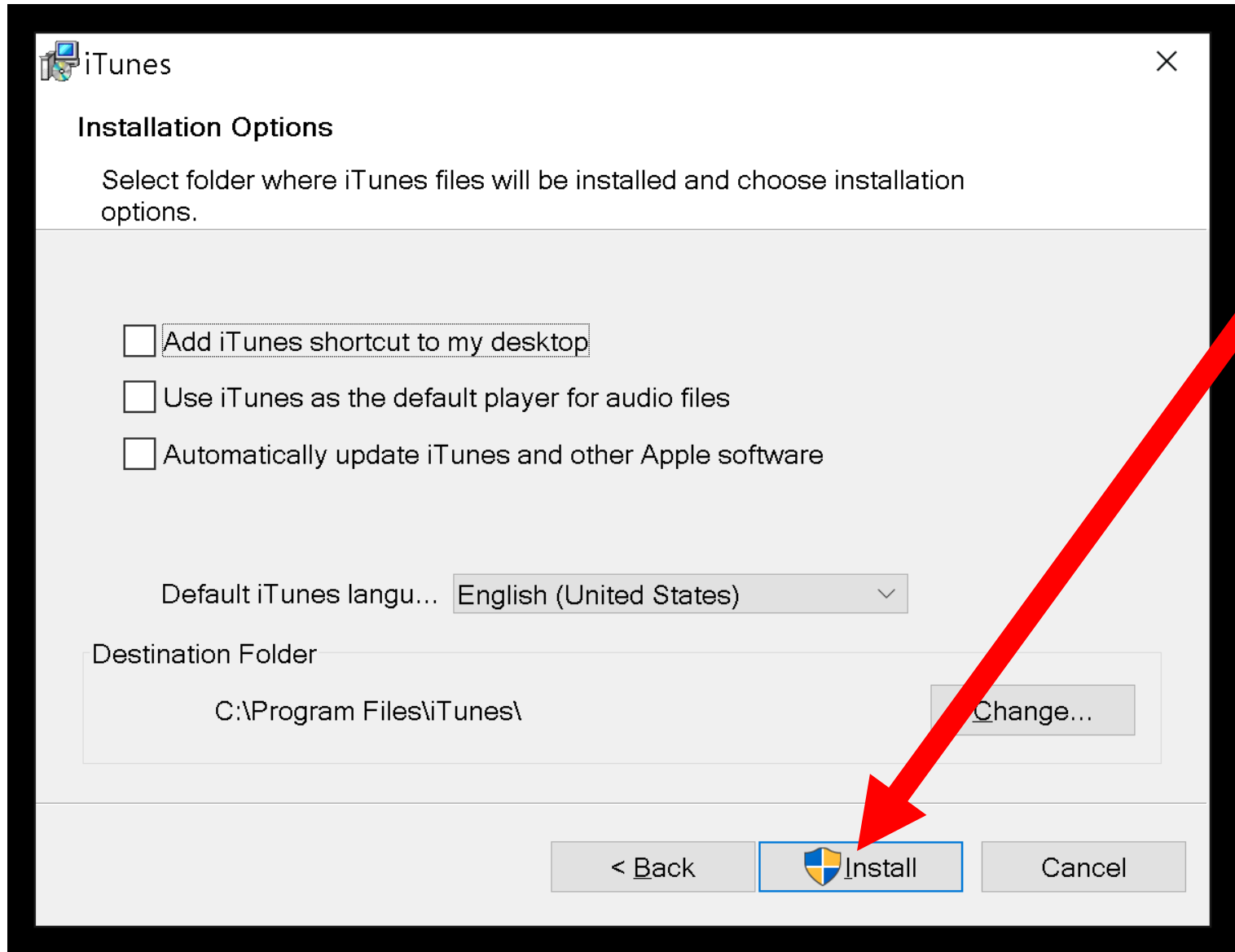


Cancel

BIG STEP 100 (Install "iTunes for Windows" into the "Windows.." computer)

SMALL STEP 105:

Click on the "Install" button:



BIG STEP 100 (Install "iTunes for Windows" into the "Windows.." computer)

SMALL STEP 106:

Click on the "Yes" in the "User Account Control" box:

User Account Control



Do you want to allow this app to make changes to your device?



iTunes

Verified publisher: Apple Inc.

File origin: Hard drive on this computer

[Show more details](#)

Yes

No

User Account Control



Do you want to allow this app to make changes to your device?



iTunes

Verified publisher: Apple Inc.

File origin: Hard drive on this computer

[Show more details](#)

Yes

No



All your music. All in one place.

Import your favorite CDs with just one click. Add new favorites, day or night, from the iTunes Store. Enjoy your collection everywhere with iPod, iPhone and iPad.



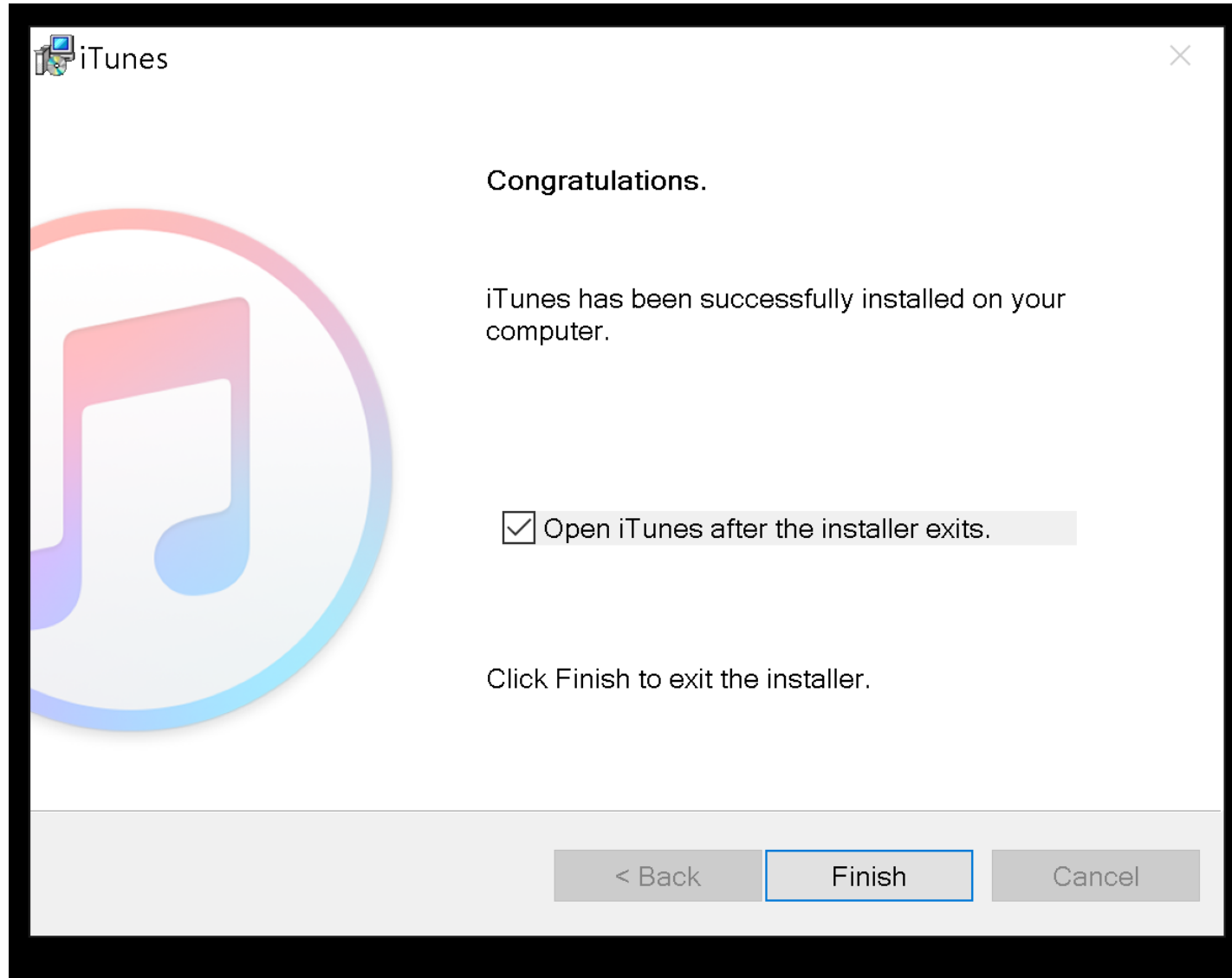
Status: Updating component registration



< Back

Next >

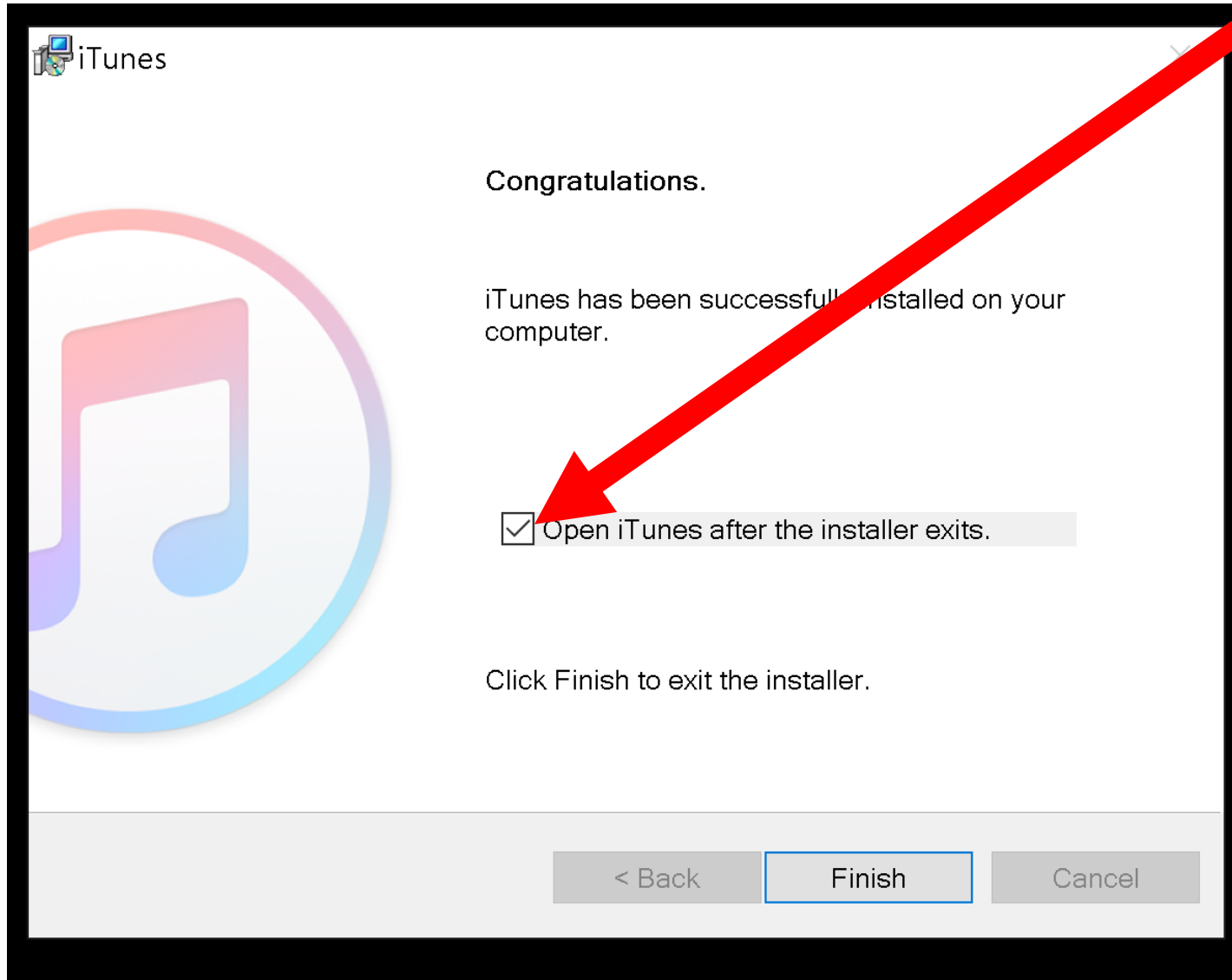
Cancel

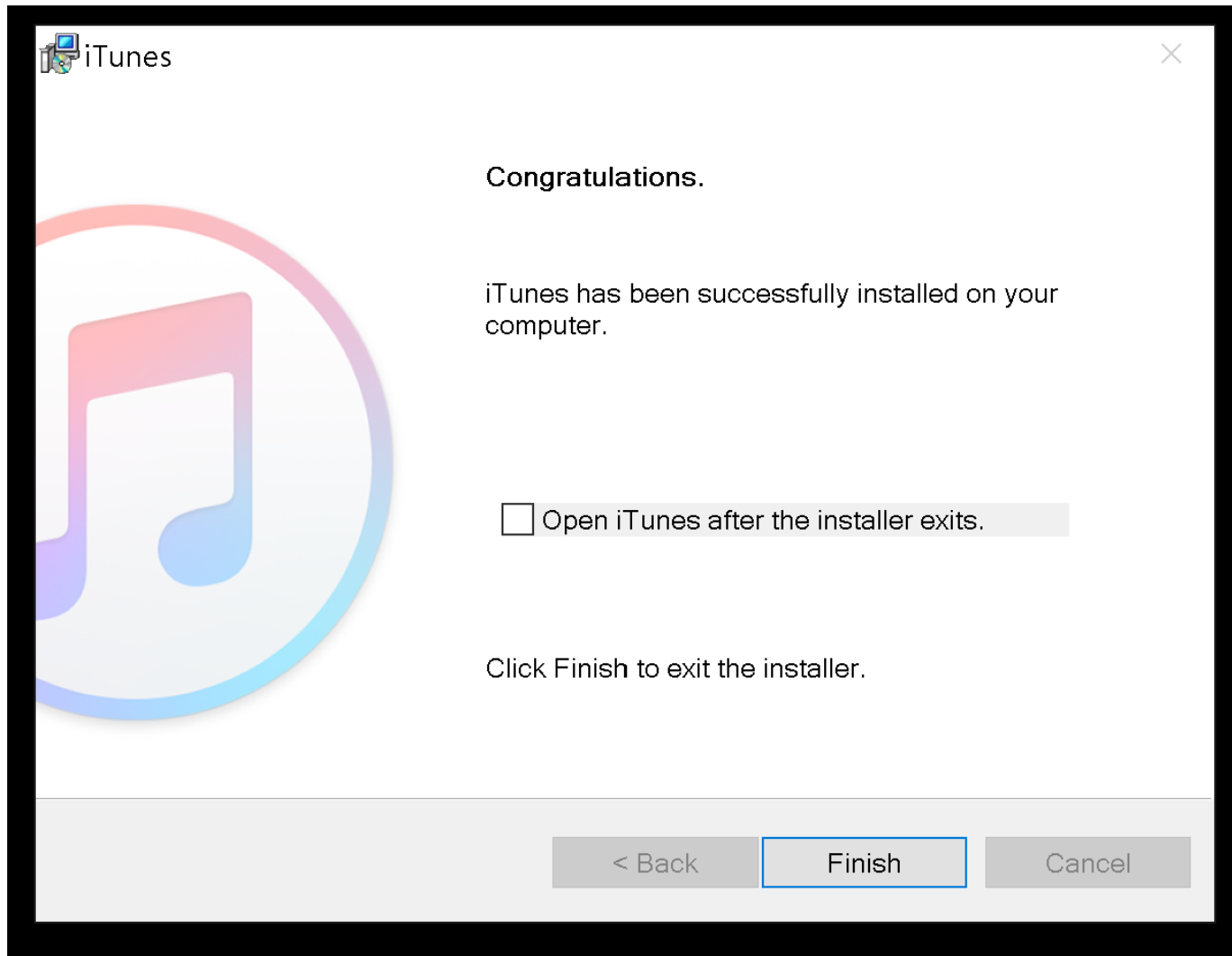


BIG STEP 100 (Install "iTunes for Windows" into the "Windows.." computer)

SMALL STEP 107:

Remove the checkmark from the "Open iTunes" option :

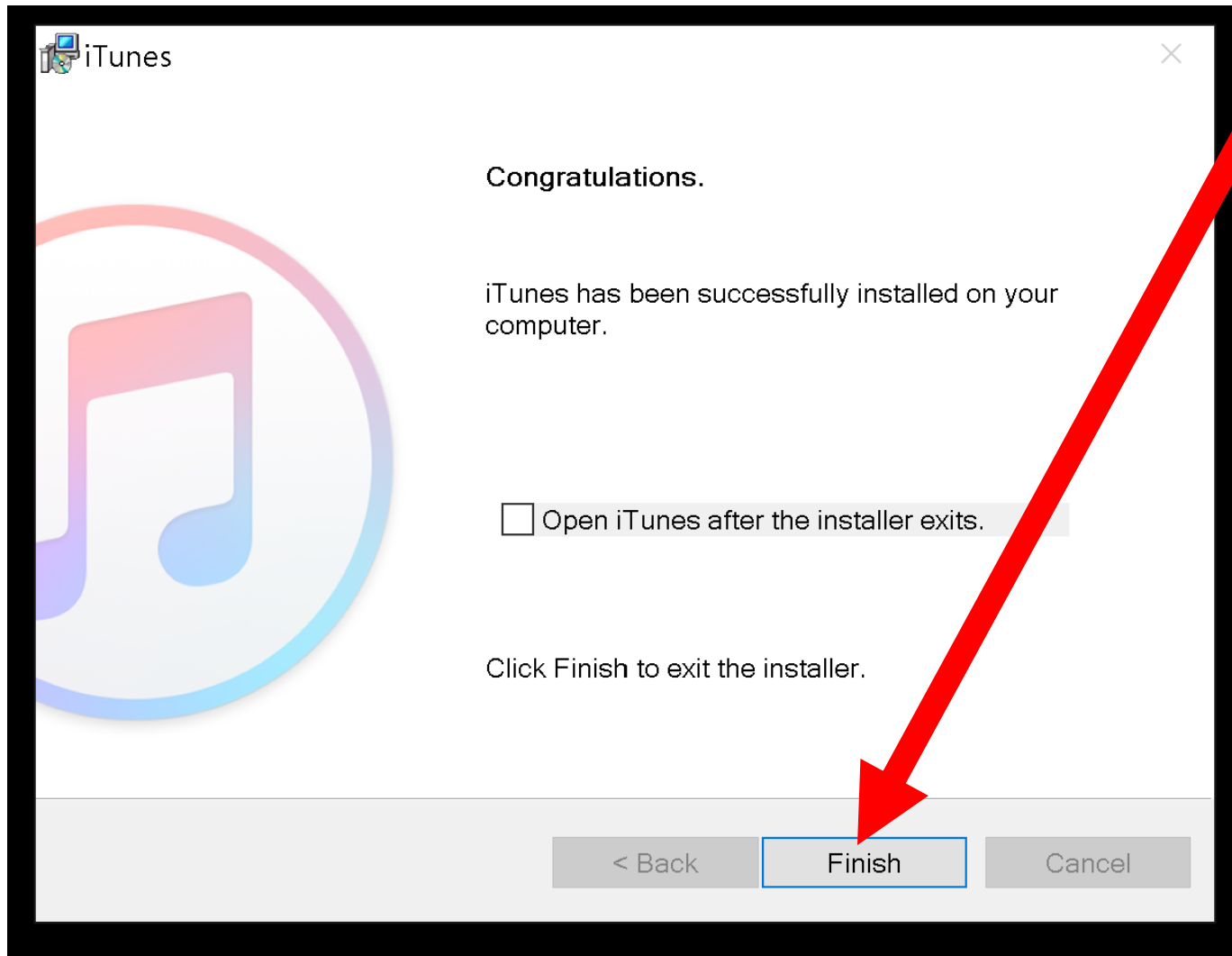




BIG STEP 100 (Install "iTunes for Windows" into the "Windows.." computer)

SMALL STEP 108:

Click on the "Finish" button:



BIG STEP 100 (Install "iTunes for Windows" into the "Windows.." computer)

SMALL STEP 109:

Start up the "iTunes for Windows" app for the first time. It will run you through one or two series of updates and also make you agree to Apple's "End User License Agreement":



Recycle Bin



iTunes



Google
Chrome



ENGLISH

**Apple Inc.
Software License Agreement for iTunes for Windows**

Please read this software license agreement ("License") carefully before using the Apple software. By using the Apple software, you are agreeing to be bound by the terms of this License. If you do not agree to the terms of this License, do not use the software. If you do not agree to the terms of the License, you may return the Apple software to the place where you obtained it for a refund. If the Apple software was accessed electronically, click "disagree/decline". For Apple software included with your purchase of hardware, you must return the entire hardware/software package in order to obtain a refund.

Important Note: To the extent that this software may be used to reproduce materials, it is licensed to you only for reproduction of non-copyrighted materials, materials in which you own the copyright, or materials you are authorized or legally permitted to reproduce. To the extent that this software may be used for remote access to music files for listening between computers, remote access of copyrighted music is only provided for lawful personal use or as otherwise legally permitted. If you are uncertain about your right to copy or permit access to any material you should contact your legal advisor.

1. General.

A. The Apple and any third party software, documentation and any fonts accompanying this License whether on disk, in read only memory, on any other media or in any other form (collectively the "Apple Software") are licensed, not sold, to you by Apple Inc. ("Apple") for use only under the terms of this License. Apple and/or Apple's licensors retain ownership of the Apple Software itself and reserve all rights not expressly granted to you.

B. Apple, at its discretion, may make available future upgrades or updates to the Apple Software for your compatible computer. Upgrades and updates, if any, may not necessarily include all existing software features or new features that Apple releases for newer or other models of computer. The terms of this License will govern any software upgrades or updates provided by Apple that replace and/or supplement the original Apple Software product, unless such upgrade or update is accompanied by a

Save...

Agree

Decline

ENGLISH

Apple Inc.
Software License Agreement for iTunes for Windows

Please read this software license agreement ("License") carefully before using the Apple software. By using the Apple software, you are agreeing to be bound by the terms of this License. If you do not agree to the terms of this License, do not use the software. If you do not agree to the terms of the License, you may return the Apple software to the place where you obtained it for a refund. If the Apple software was accessed electronically, click "disagree/decline". For Apple software included with your purchase of hardware, you must return the entire hardware/software package in order to obtain a refund.

Important Note: To the extent that this software may be used to reproduce materials, it is licensed to you only for reproduction of non-copyrighted materials, materials in which you own the copyright, or materials you are authorized or legally permitted to reproduce. To the extent that this software may be used for remote access to music files for listening between computers, remote access of copyrighted music is only provided for lawful personal use or as otherwise legally permitted. If you are uncertain about your right to copy or permit access to any material you should contact your legal advisor.

1. General.

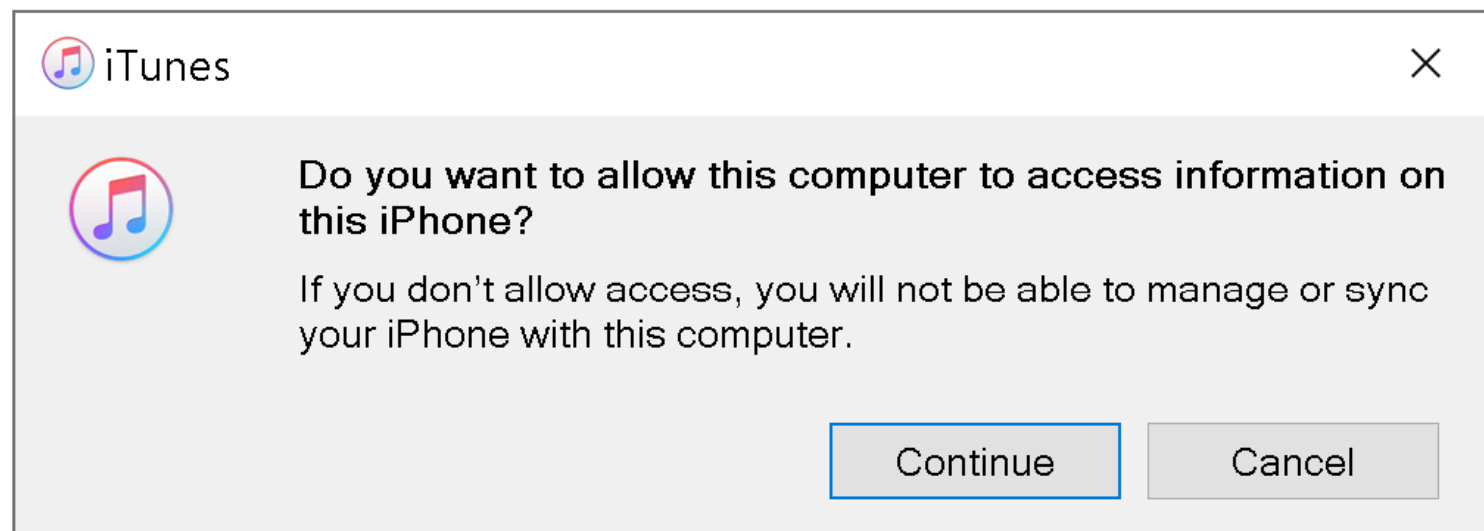
A. The Apple and any third party software, documentation and any fonts accompanying this License whether on disk, in read only memory, on any other media or in any other form (collectively the "Apple Software") are licensed, not sold, to you by Apple Inc. ("Apple") for use only under the terms of this License. Apple and/or Apple's licensors retain ownership of the Apple Software itself and reserve all rights not expressly granted to you.

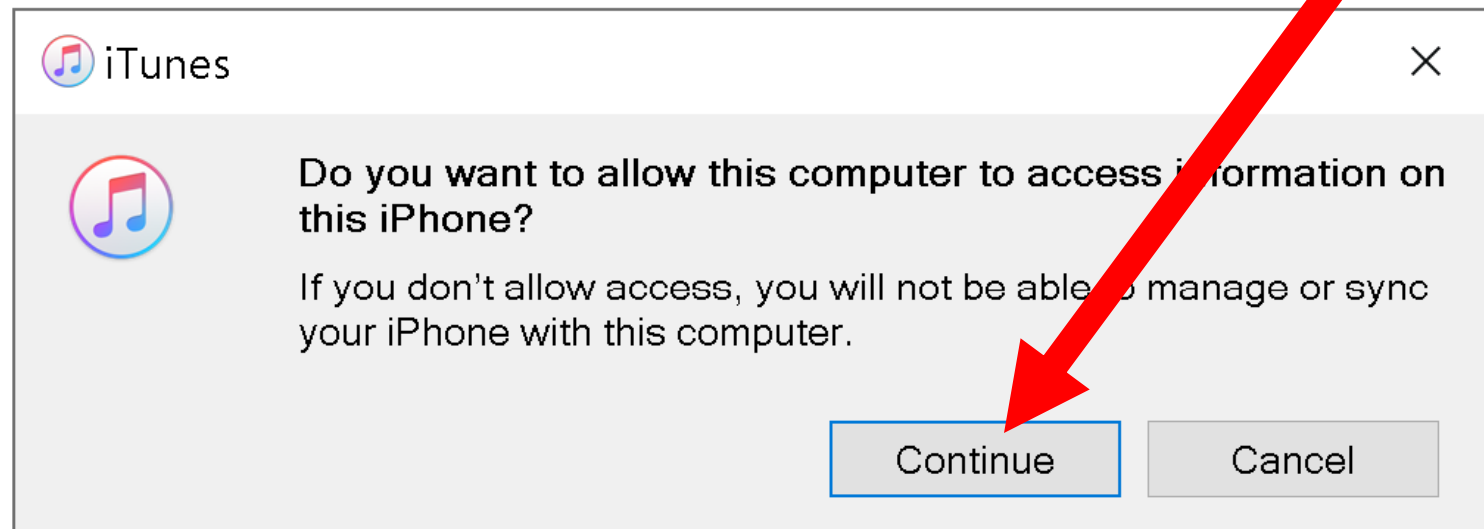
B. Apple, at its discretion, may make available future upgrades or updates to the Apple Software for your computer. Upgrades and updates, if any, may not necessarily include all existing software features or new features that Apple releases for newer or other models of computer. The terms of this License will govern any software upgrades or updates provided by Apple that replace and/or supplement the original Apple Software product, unless such upgrade or update is accompanied by a

Save...

Agree

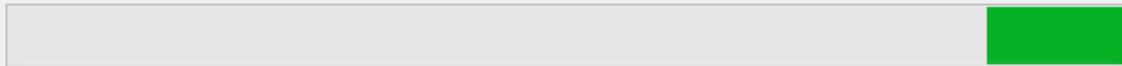
Decline



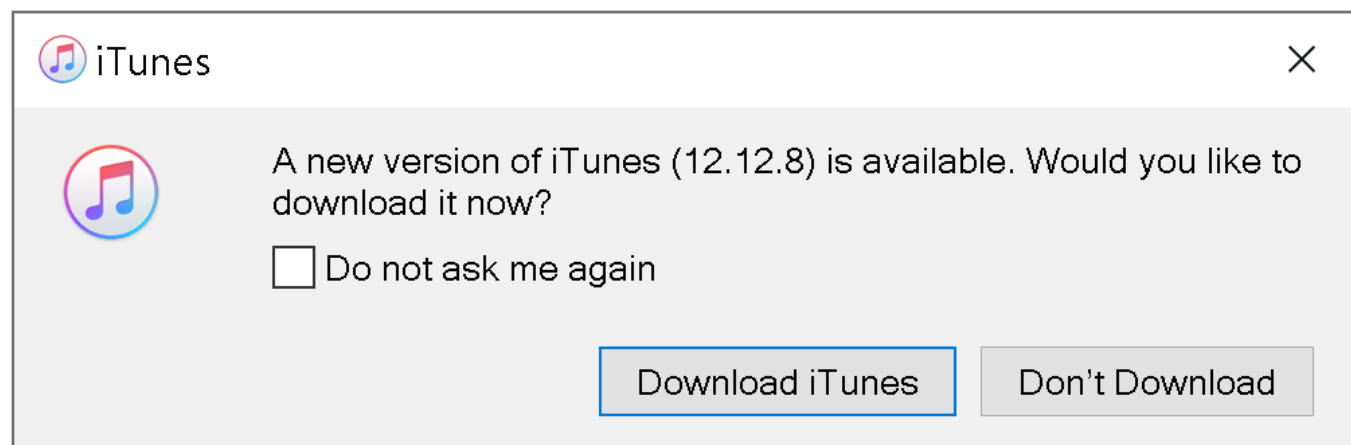


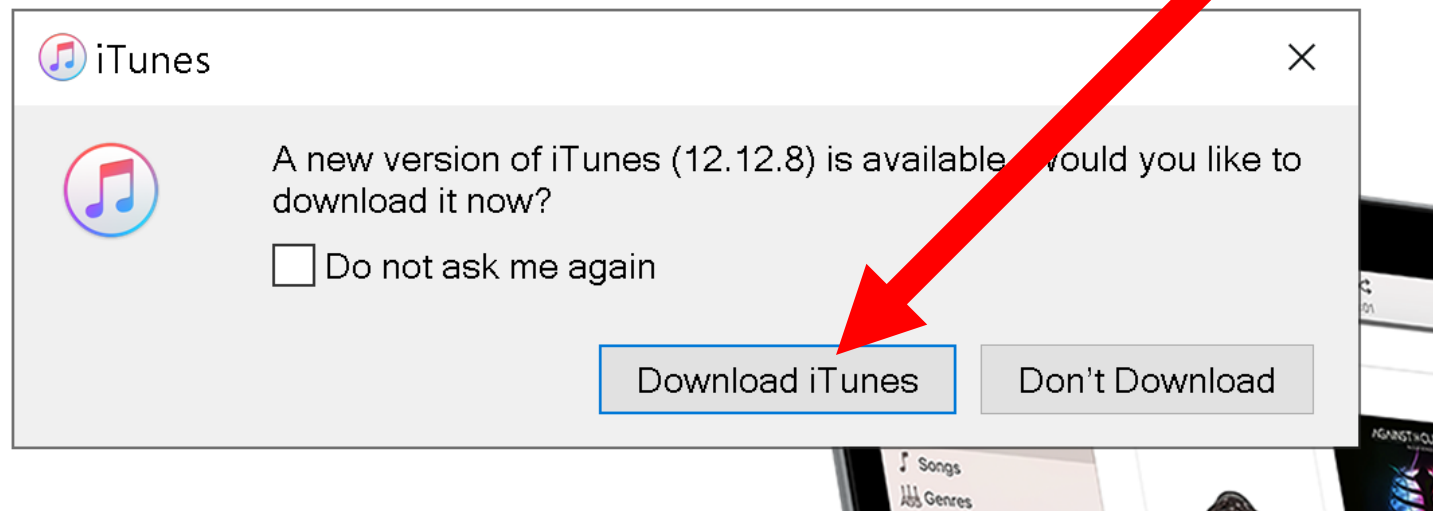
iTunes

To allow access, please respond on your iPhone...

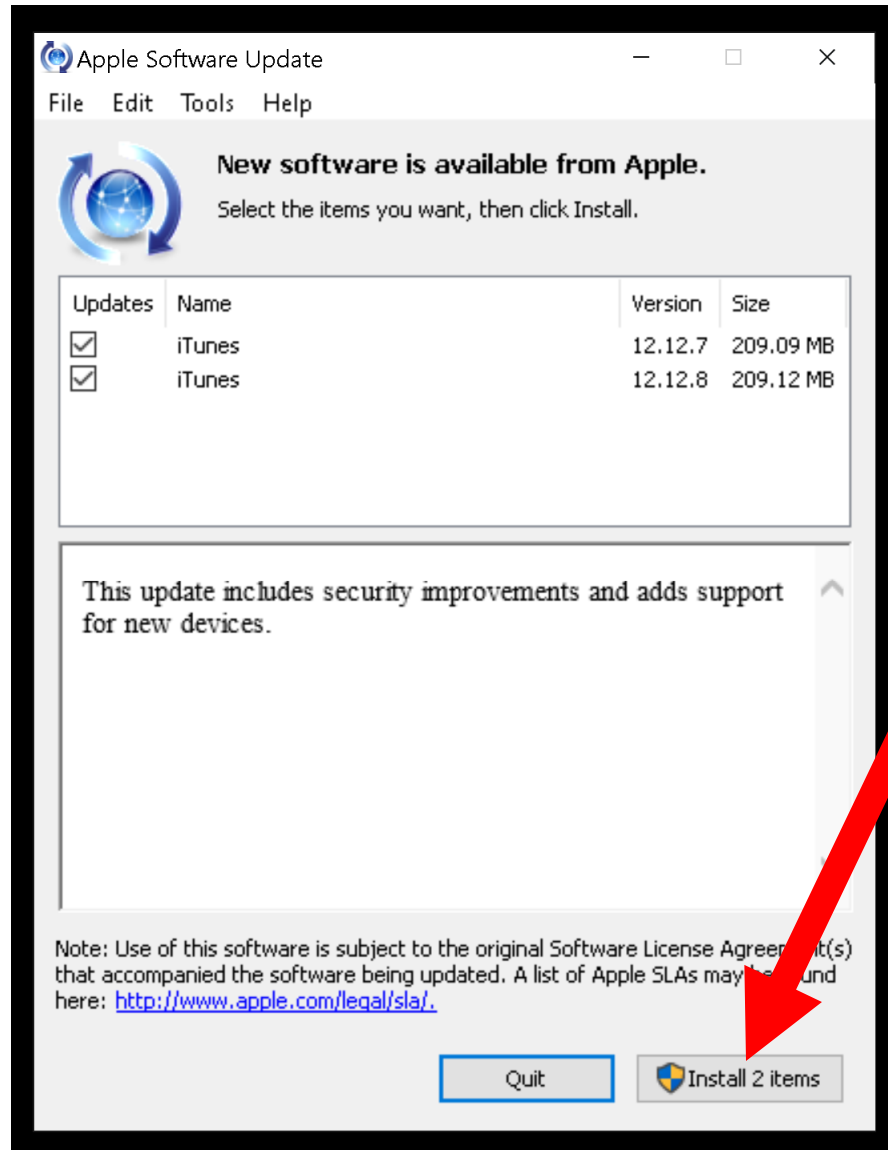


Stop

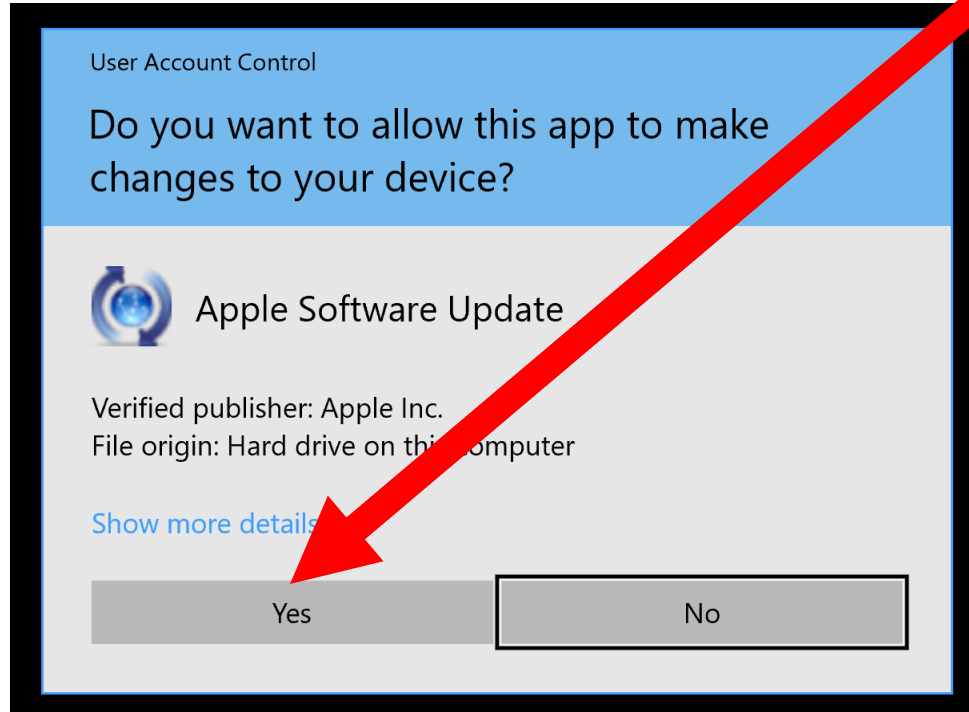


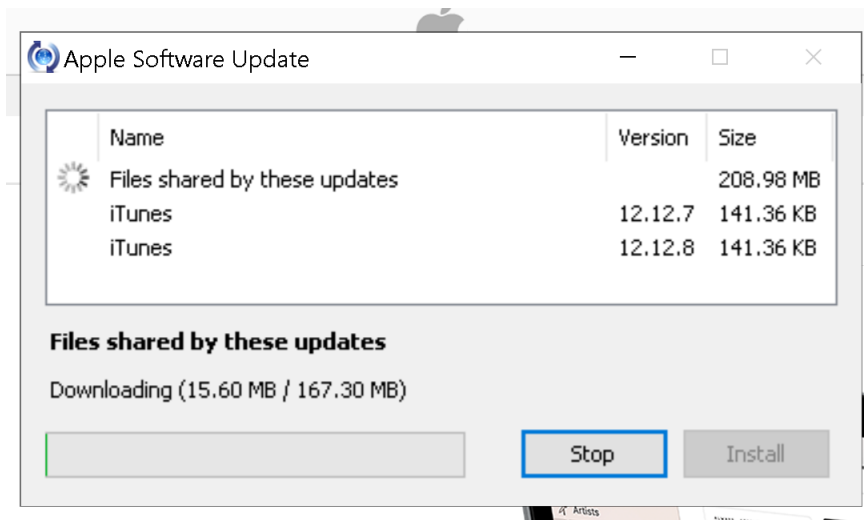













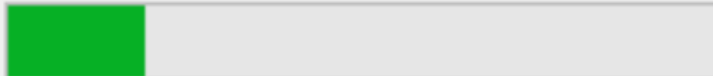


Apple Software Update

	Name	Version	Size
	Files shared by these updates		208.98 MB
	iTunes	12.12.7	141.36 KB
	iTunes	12.12.8	141.36 KB

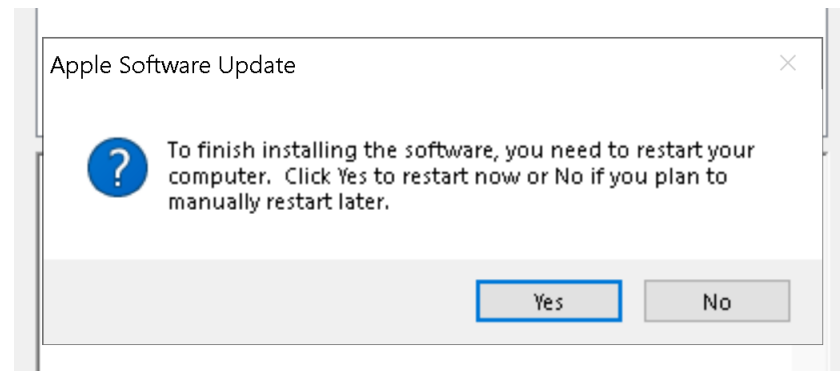
Files shared by these updates

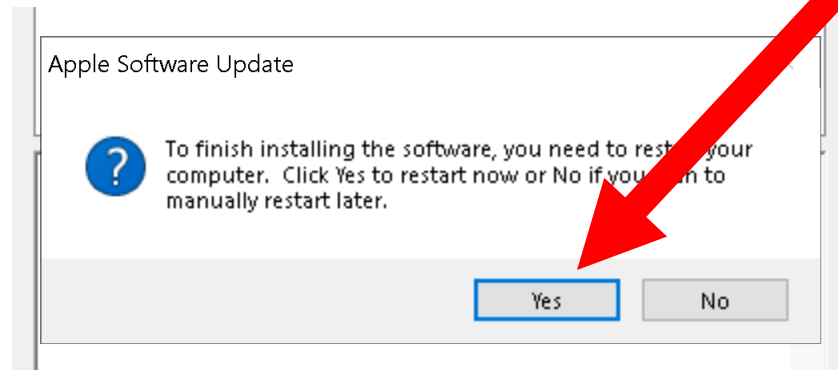
Installing...



Stop

Install







Recycle Bin



iTunes



Google
Chrome



BIG STEP 200 (Set up USB tethering in the "iPhone")

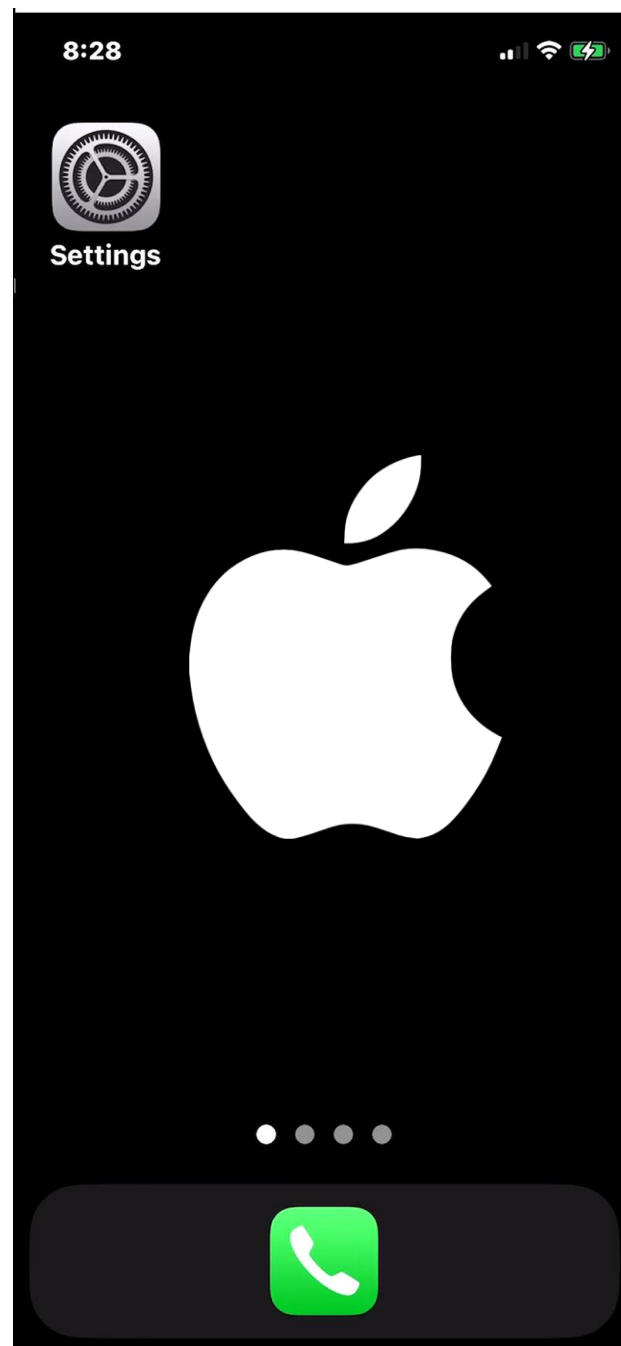
SMALL STEP 201:

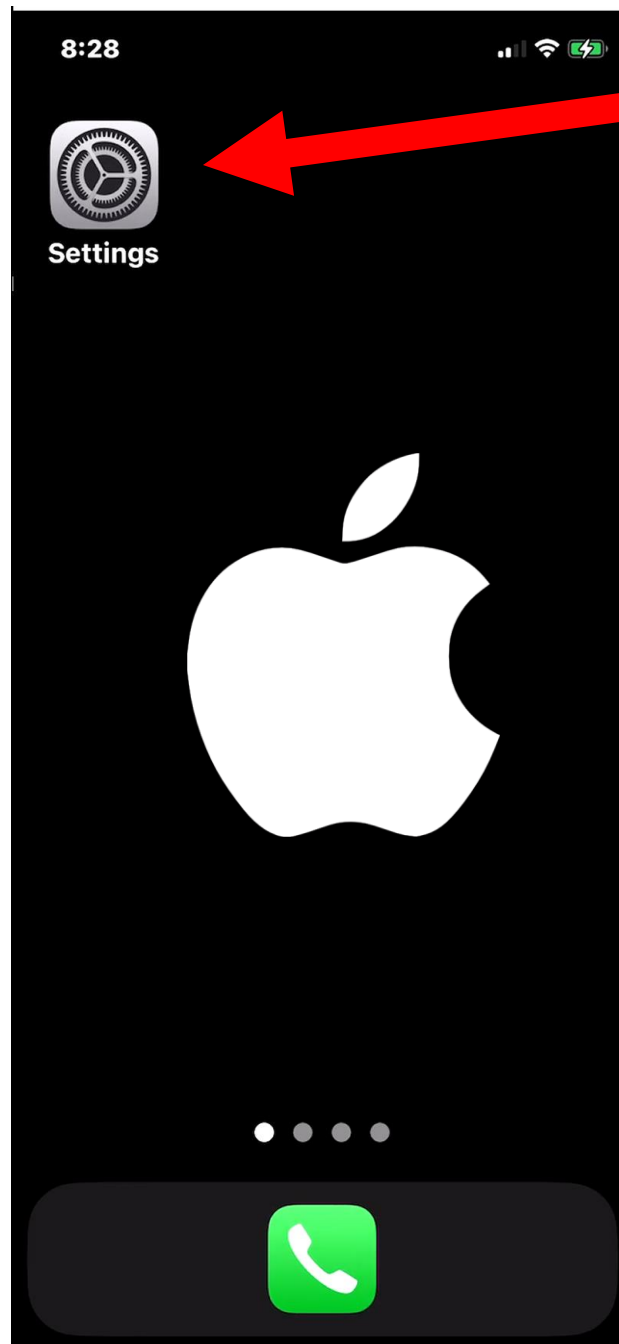
Connect the "cell phone to USB" cable
between the cell phone and the client
"Windows.." computer:

BIG STEP 200 (Set up USB tethering in the "iPhone")

SMALL STEP 202:

Locate the "Settings" icon in the
"iPhone":





BIG STEP 200 (Set up USB tethering in the "iPhone") (continued)

SMALL STEP 203:

Tap on the "Settings" icon:



**BIG STEP 200 (Set up USB tethering
in the "iPhone:) (continued)**

SMALL STEP 204:

Tap on "Personal Hotspot":

8:31



Settings



Francis Chao

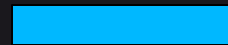
Apple ID, iCloud,
Media & Purchases



Airplane Mode



Wi-Fi



Bluetooth

On



Cellular



Personal Hotspot Off

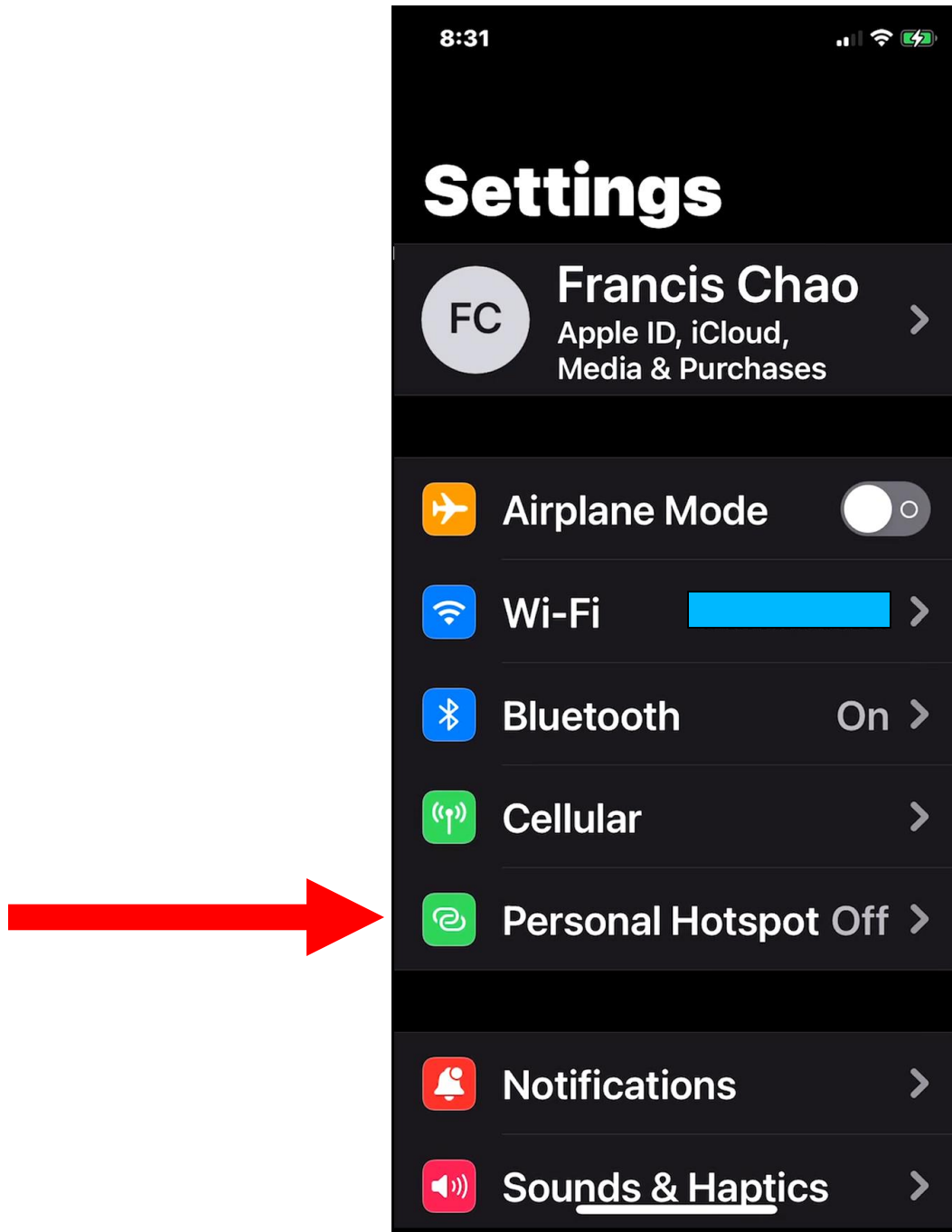


Notifications



Sounds & Haptics



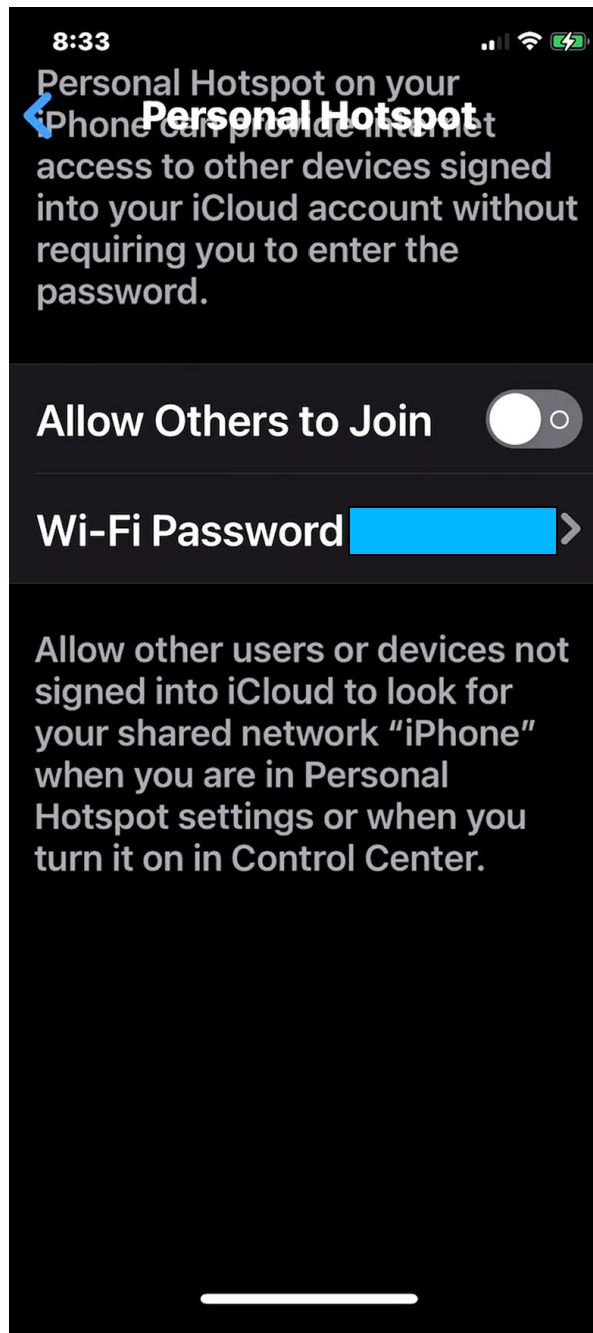


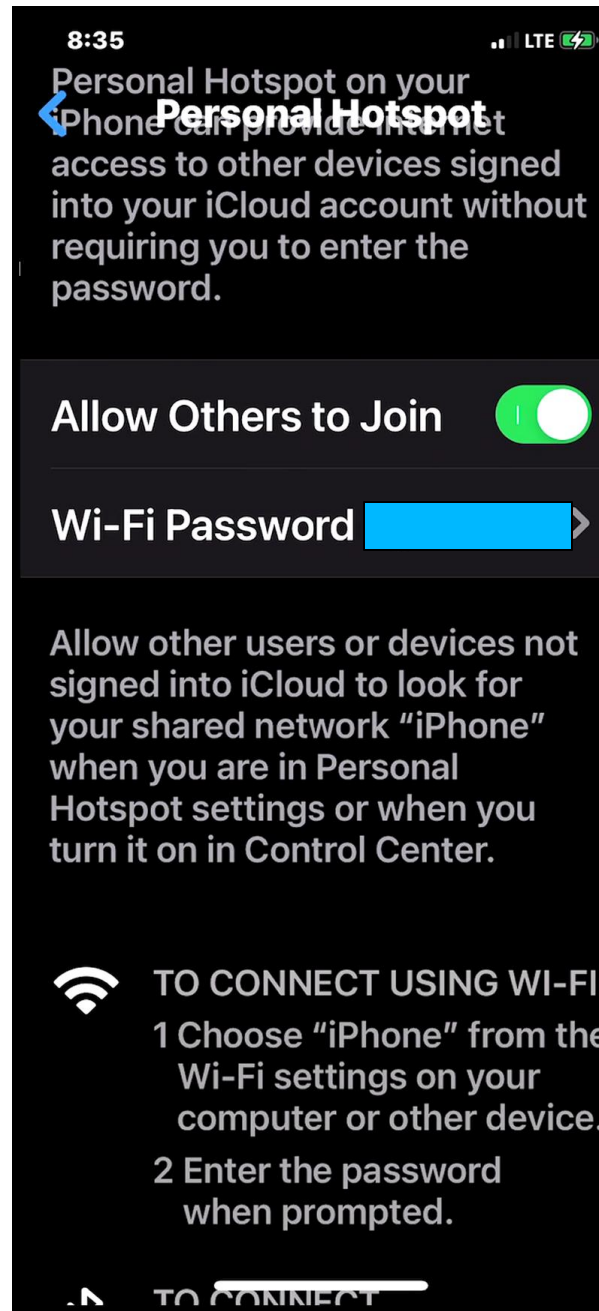
BIG STEP 200 (Set up USB tethering in the "iPhone") (continued)

SMALL STEP 205:

Tap on "Allow Others to Join" to enable it.

If "Allow Others to Join" is already enabled, tap on it to disable it, and then tap on it to re-enable it.





BIG STEP 200 (Set up USB tethering in the "iPhone") (continued)

SMALL STEP 206:

Swipe up from the bottom of the screen to the middle of the screen to reduce the size of the "Settings" display.

Then drag the "Settings" display to the top of the screen to close it.

BIG STEP 300 (Activate the tethered Internet connection from the "Windows.." computer)

- **SMALL STEP 301:**
Make sure that the "Windows.." computer and "iPhone" are connected with the "Lightning-to-USB" cable. On the computer end, you might need an USB-A to USB-C adapter.

BIG STEP 300 (Activate the tethered Internet connection from the "Windows.." computer)

- **SMALL STEP 302:**
Start up the "iTunes for Windows" app:



Recycle Bin



iTunes



Google
Chrome





Recycle Bin



iTunes



Google
Chrome



ENGLISH**APPLE INC.
iTUNES FOR WINDOWS SOFTWARE LICENSE AGREEMENT**

PLEASE READ THIS SOFTWARE LICENSE AGREEMENT (“LICENSE”) CAREFULLY BEFORE USING THE APPLE SOFTWARE. BY SELECTING “AGREE”, YOU ARE AGREEING TO BE BOUND BY THE TERMS OF THIS LICENSE. IF YOU DO NOT AGREE TO THE TERMS OF THIS LICENSE, SELECT “DECLINE”.

IMPORTANT NOTE: To the extent that this software may be used to reproduce, modify, publish or distribute materials, it is licensed to you only for reproduction, modification, publication and distribution of non-copyrighted materials, materials in which you own the copyright, or materials you are authorized or legally permitted to reproduce, modify, publish or distribute. If you are uncertain about your right to copy, modify, publish or distribute any material, you should contact your legal advisor.

1. General.

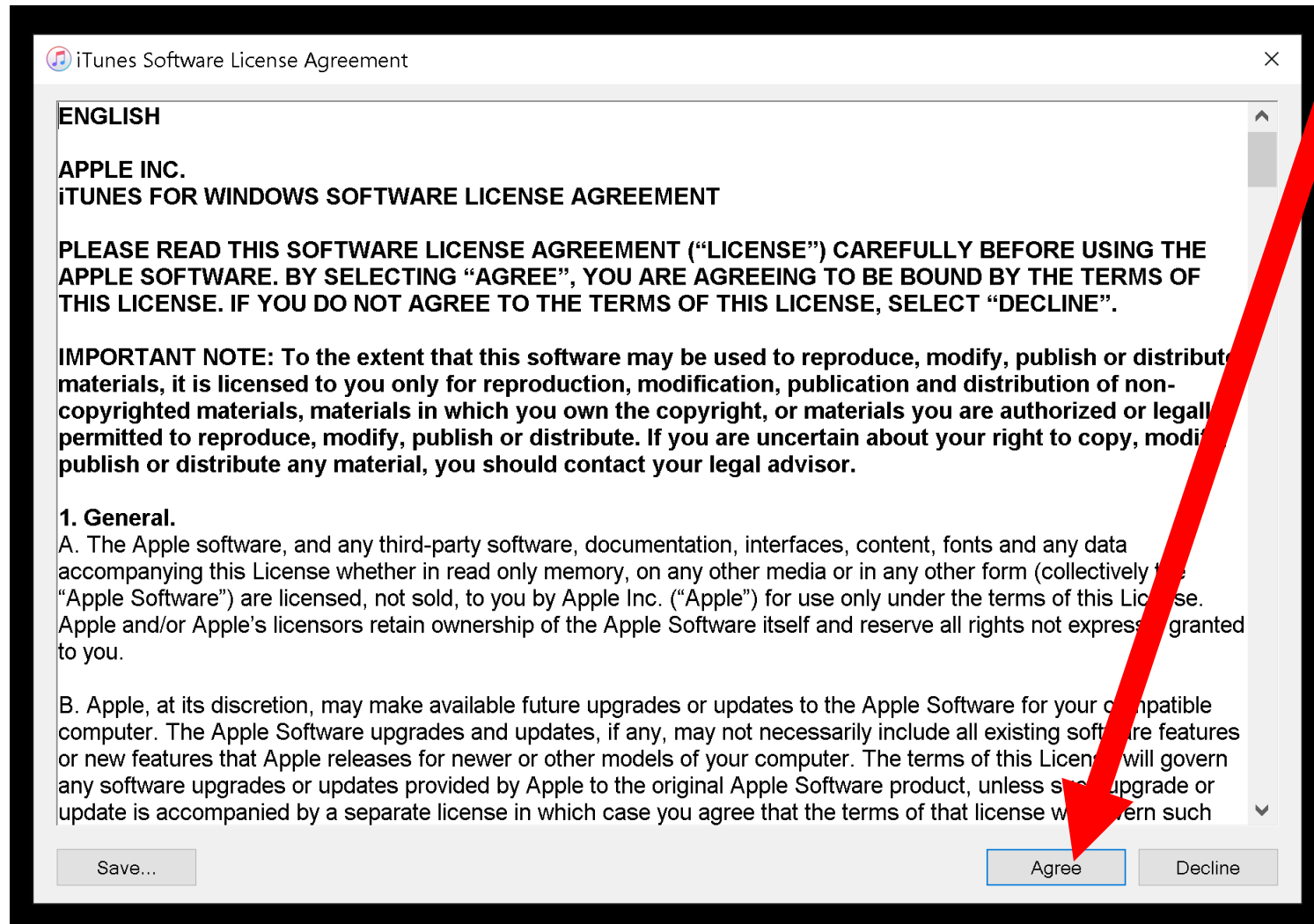
A. The Apple software, and any third-party software, documentation, interfaces, content, fonts and any data accompanying this License whether in read only memory, on any other media or in any other form (collectively the “Apple Software”) are licensed, not sold, to you by Apple Inc. (“Apple”) for use only under the terms of this License. Apple and/or Apple’s licensors retain ownership of the Apple Software itself and reserve all rights not expressly granted to you.

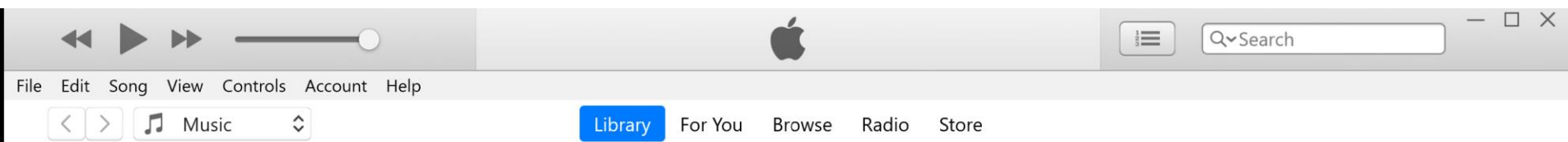
B. Apple, at its discretion, may make available future upgrades or updates to the Apple Software for your compatible computer. The Apple Software upgrades and updates, if any, may not necessarily include all existing software features or new features that Apple releases for newer or other models of your computer. The terms of this License will govern any software upgrades or updates provided by Apple to the original Apple Software product, unless such upgrade or update is accompanied by a separate license in which case you agree that the terms of that license will govern such

Save...

Agree

Decline





Welcome

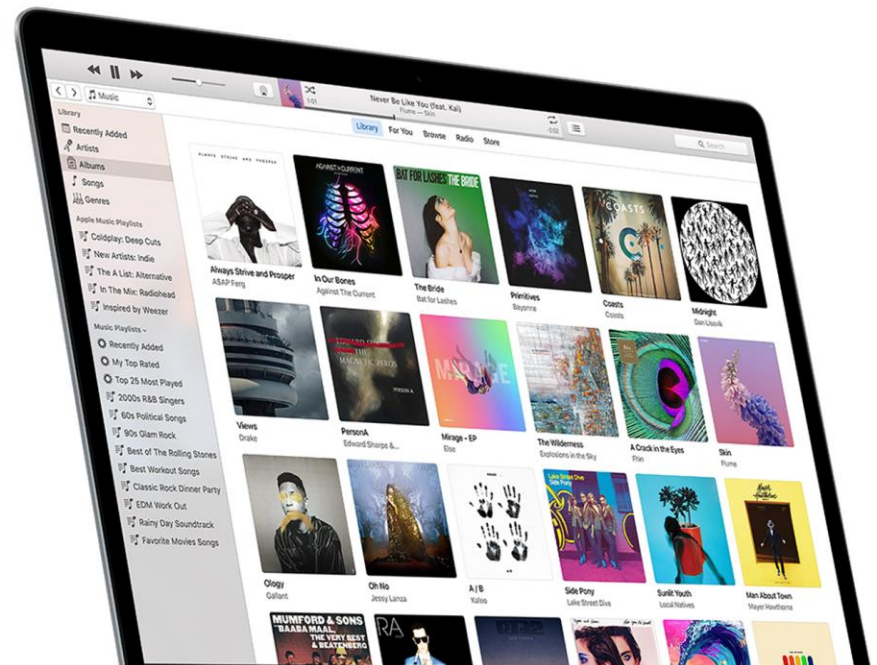
iTunes is the simplest way to enjoy your favorite music, movies, TV shows and more on your computer.

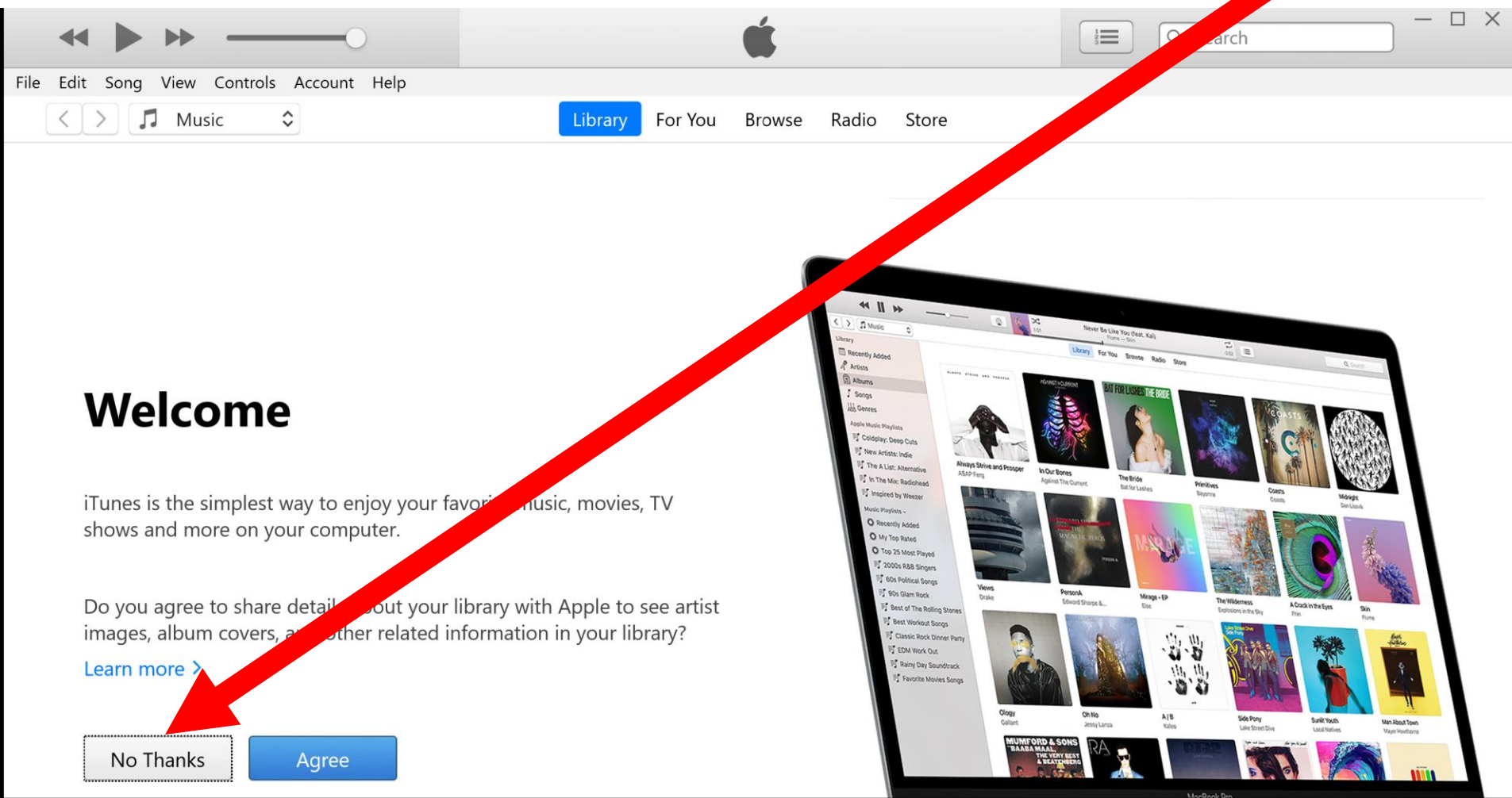
Do you agree to share details about your library with Apple to see artist images, album covers, and other related information in your library?

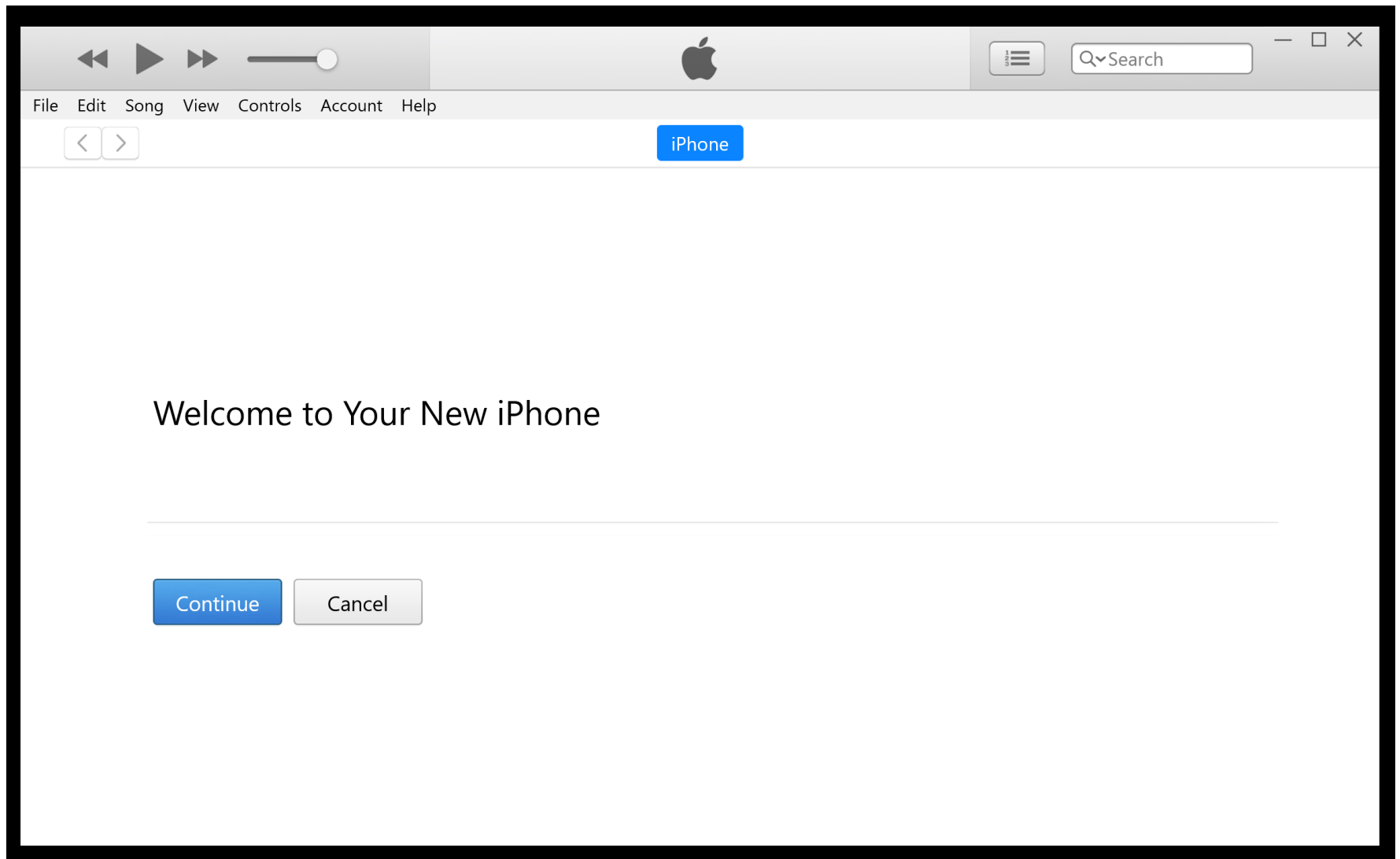
[Learn more >](#)

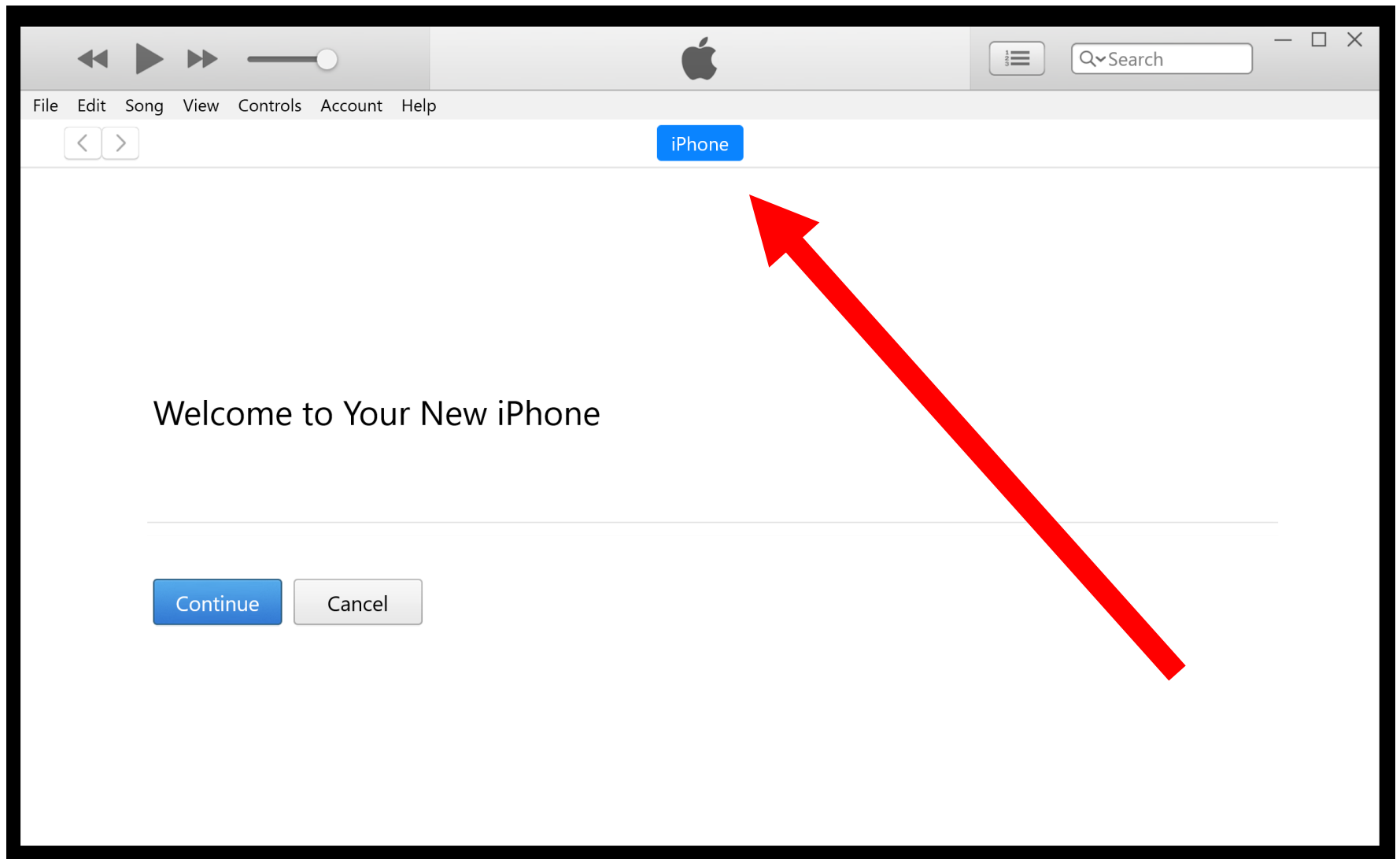
No Thanks

Agree



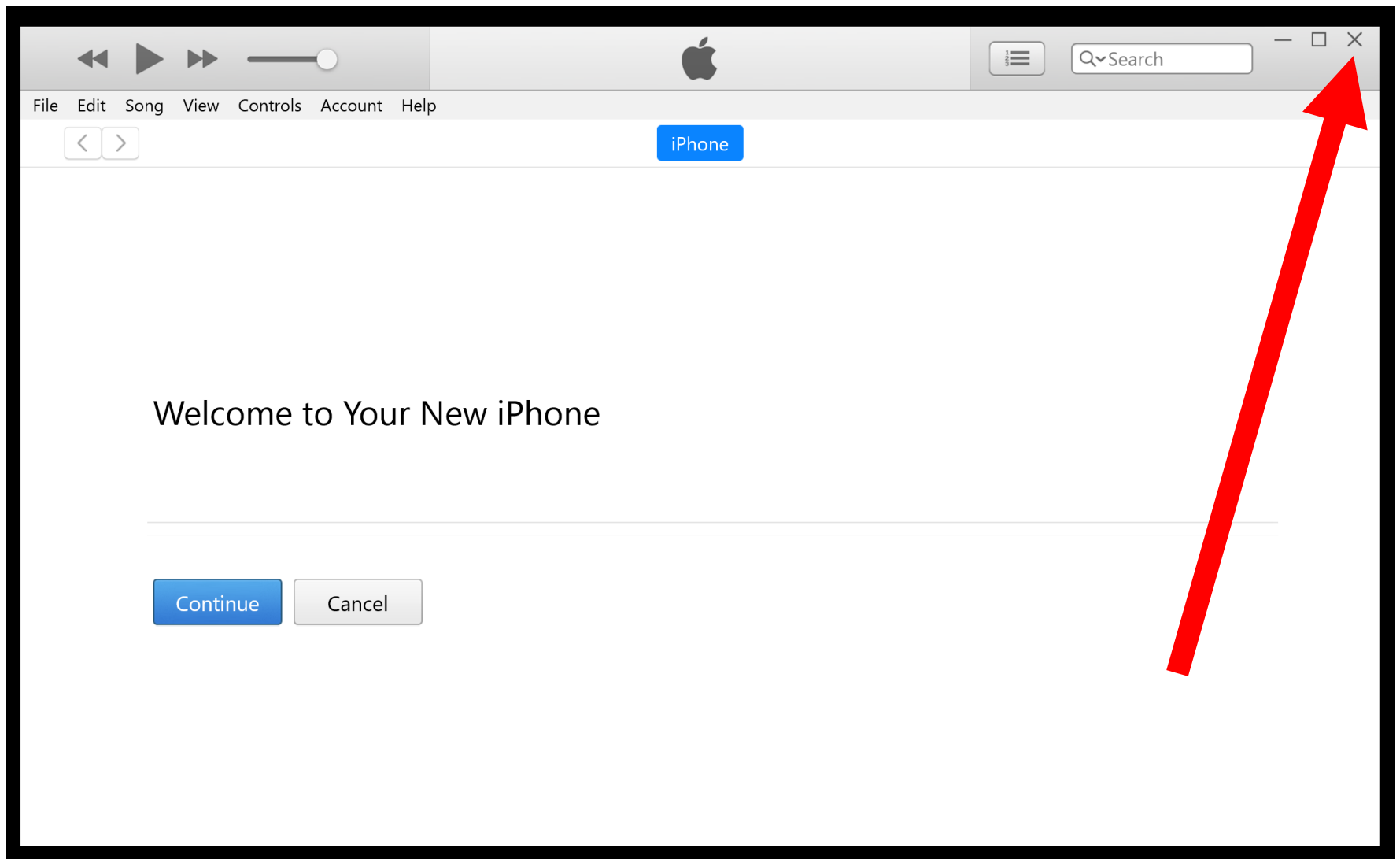






BIG STEP 300 (Activate the tethered Internet connection from the "Windows.." computer)

- **SMALL STEP 303:**
Close the "iTunes for Windows" app:

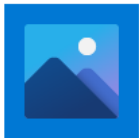


BIG STEP 300 (Activate the tethered Internet connection from the "Windows.." computer) (continued)

- SMALL STEP 304:
Each time that you use a "Lightning-to-USB" cable to connect your "iPhone" to your "Windows.." computer, you will see the following pop-ups in the "Desktop" of your "Windows.." computer AND in the screen of your "iPhone":

Apple iPhone

Choose what to do with this device.



Import photos and videos
Photos

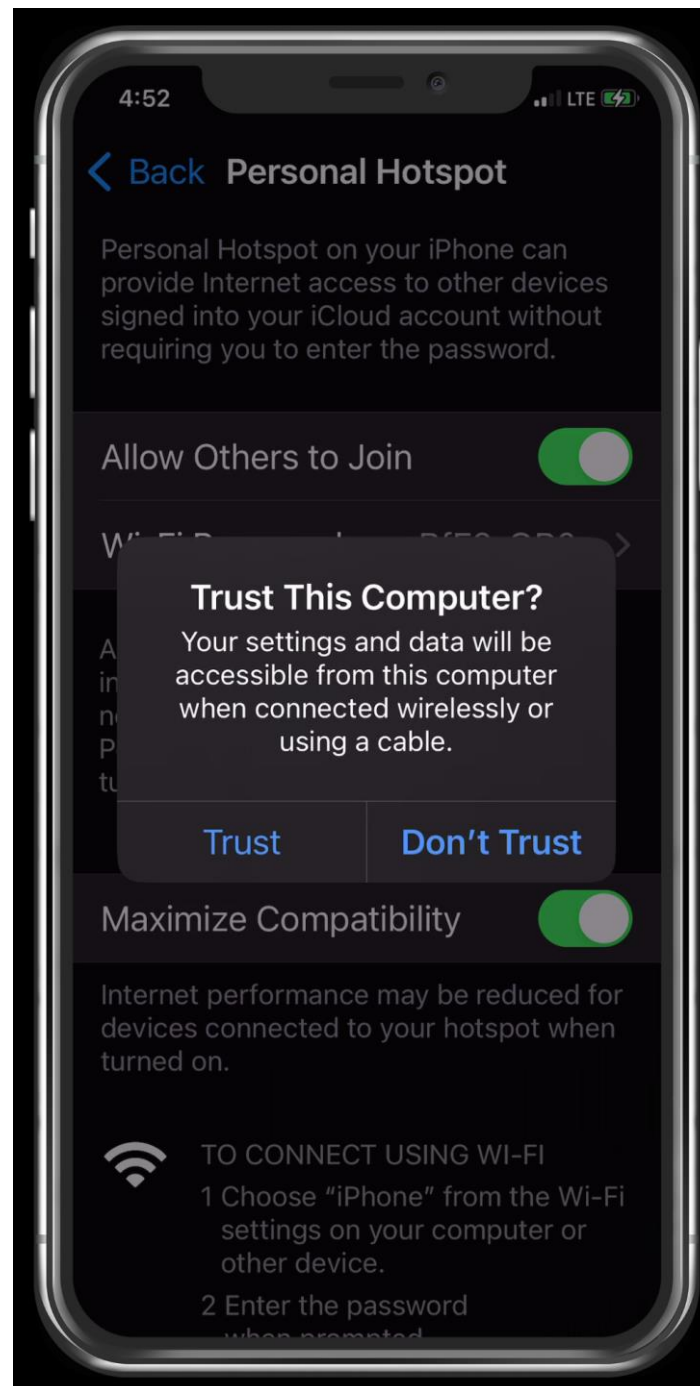


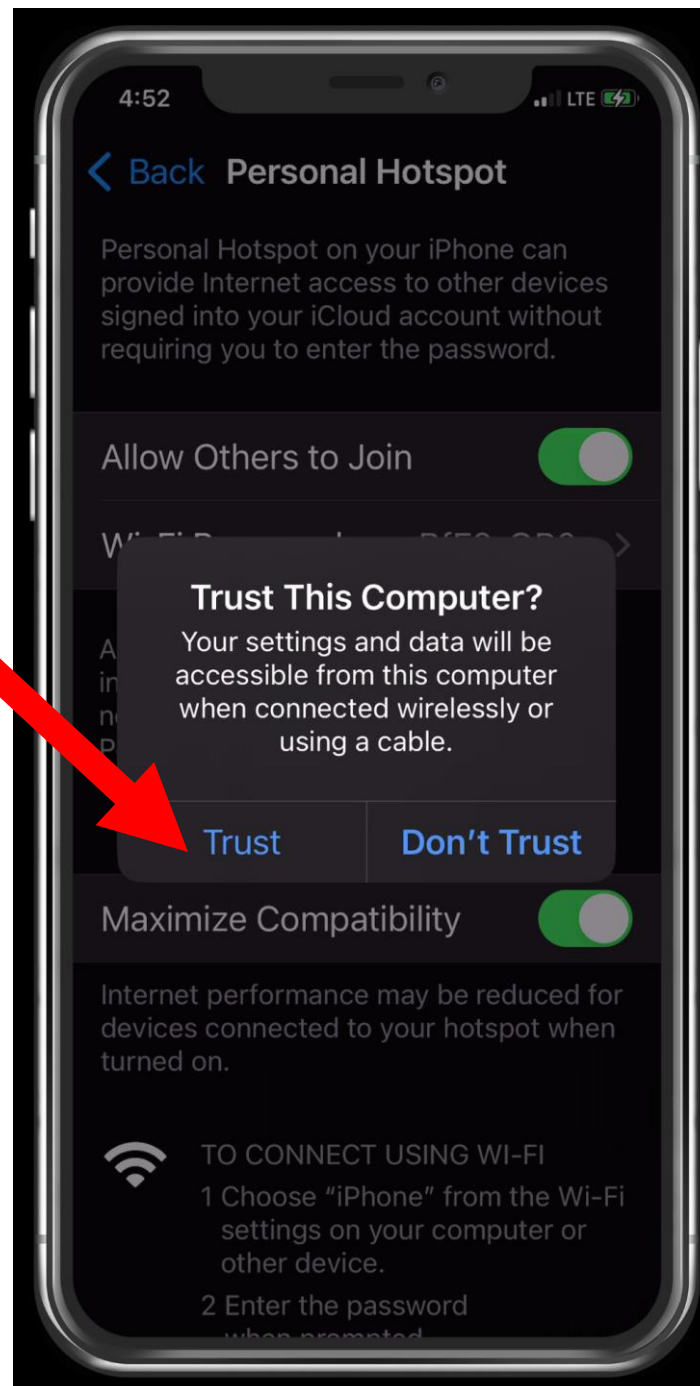
Open device to view files
File Explorer



Take no action

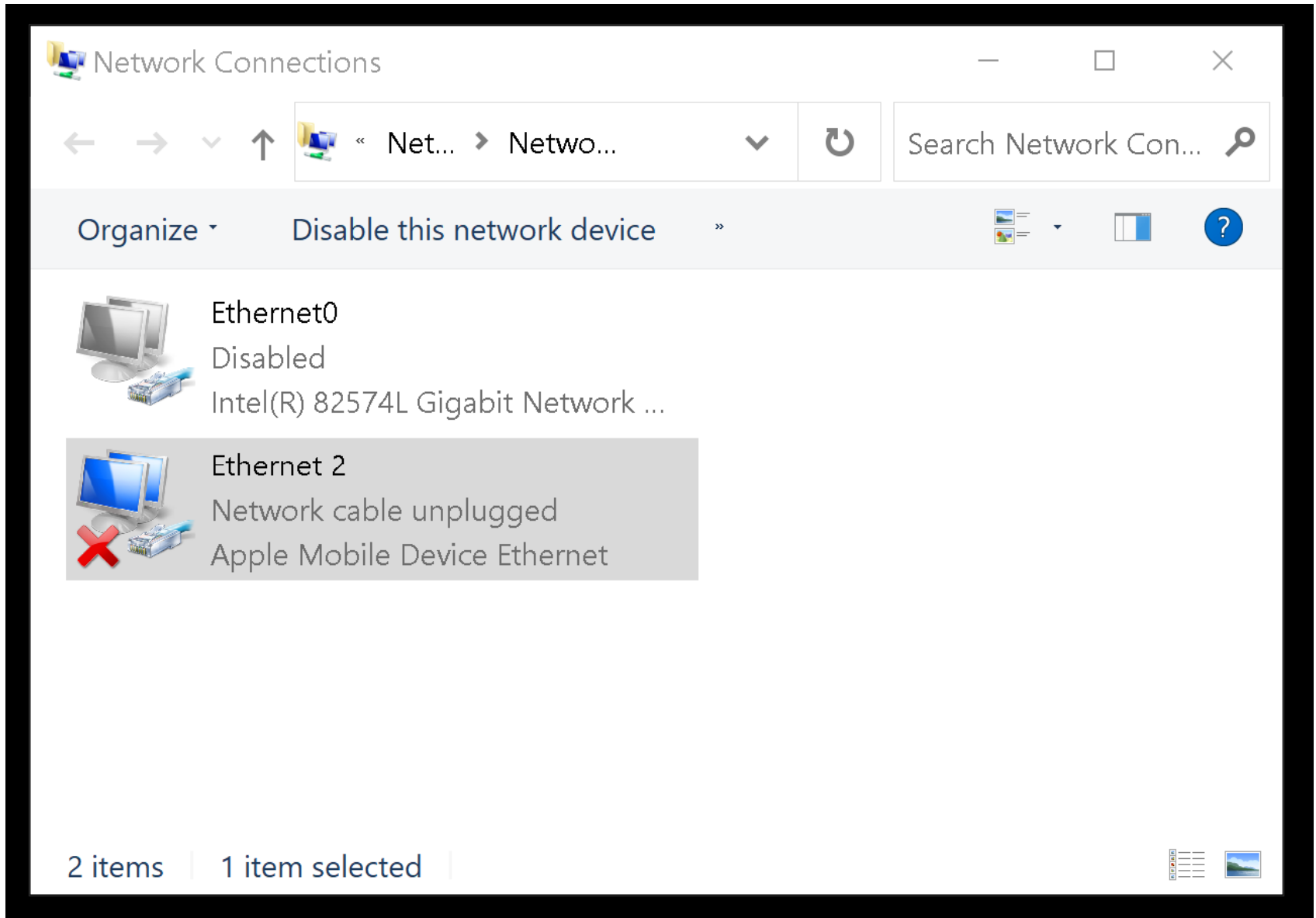


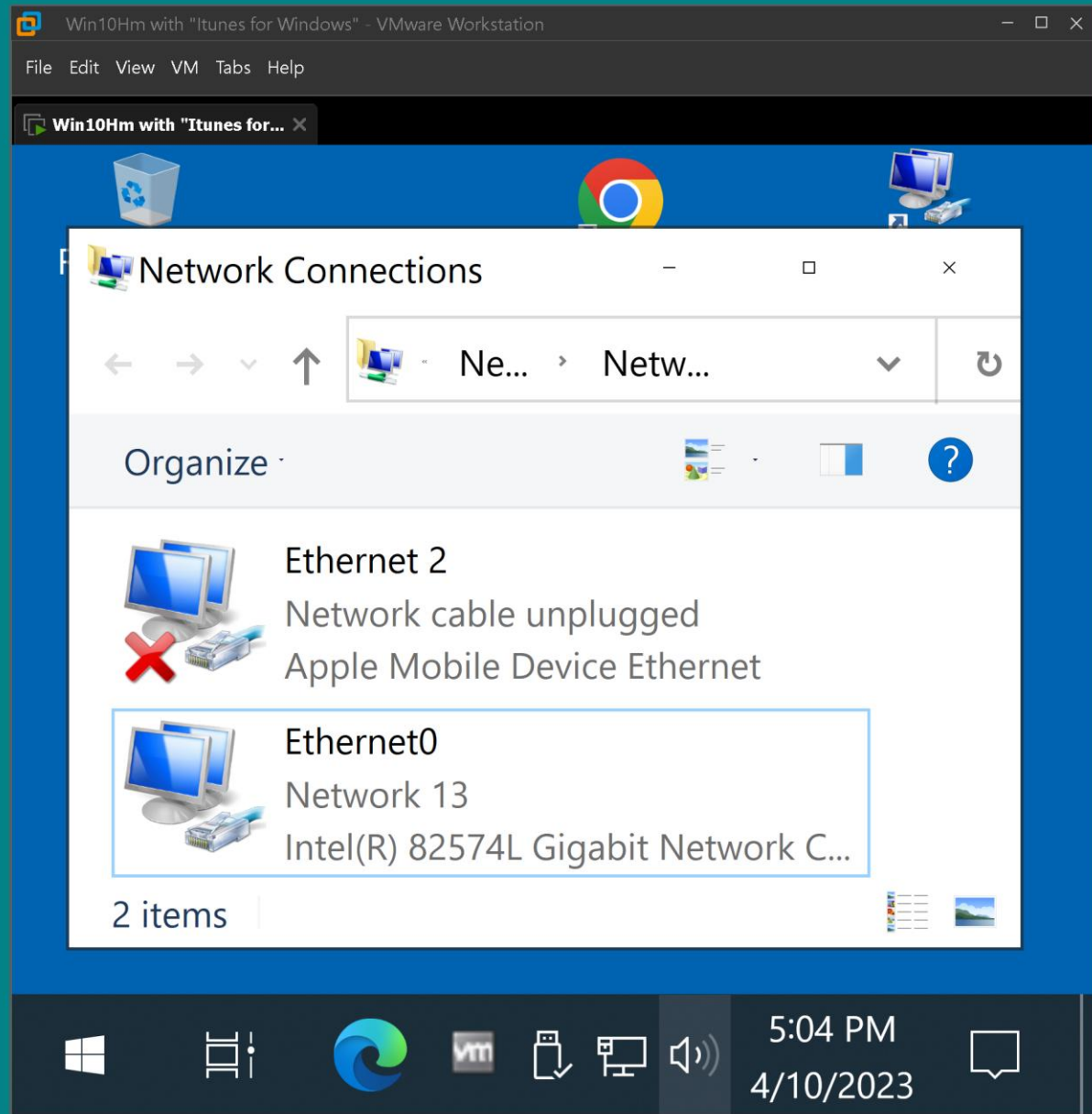
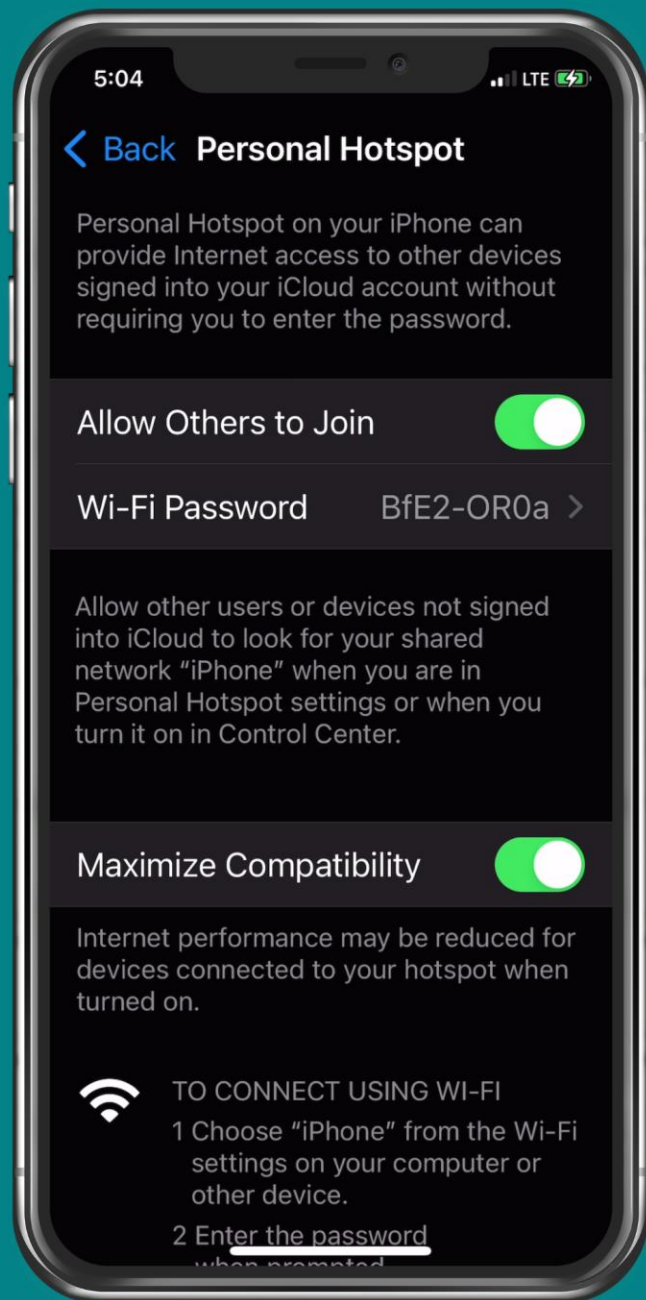


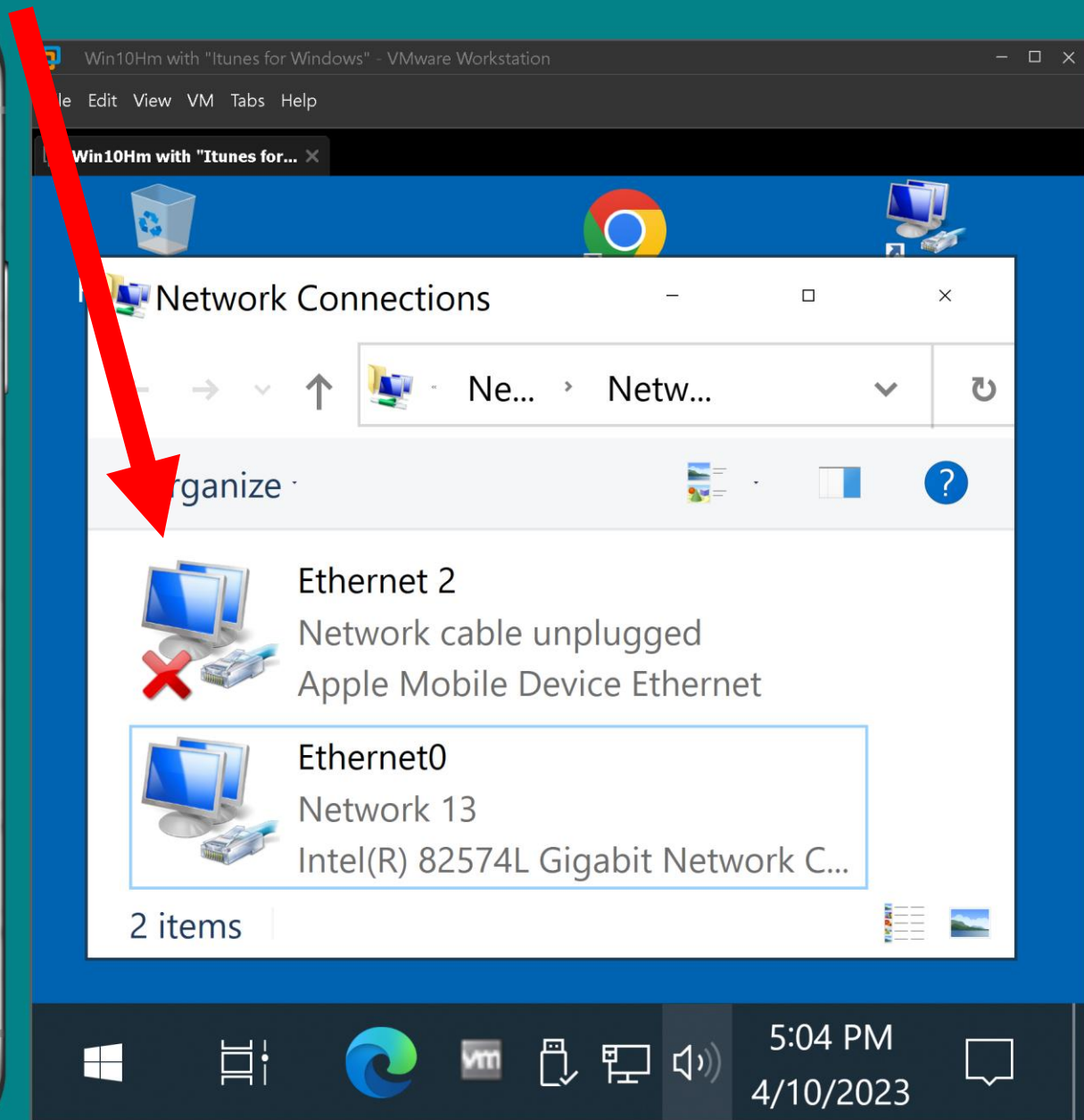
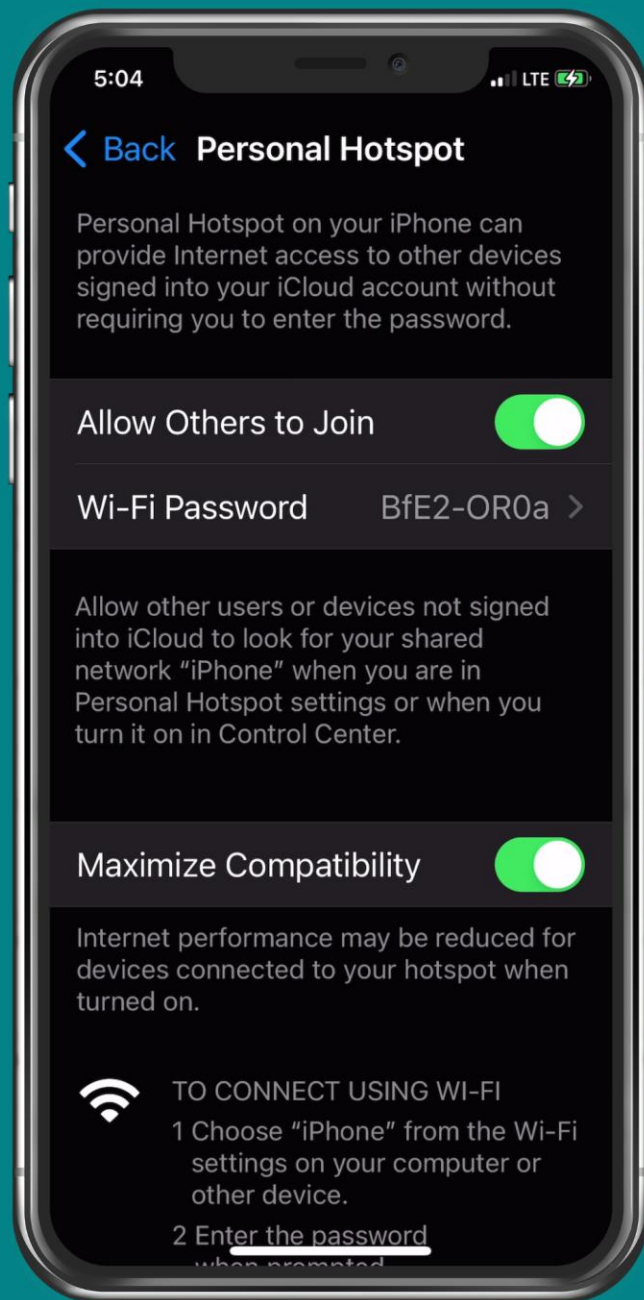


BIG STEP 300 (Activate the tethered Internet connection from the "Windows.." computer) (continued)

- SMALL STEP 305:
Each time that you make a cabled connection from your "iPhone" to your "Windows.." computer, a new but disabled Ethernet connection called "Apple Mobile Device Ethernet" will be displayed inside the "Network Connections" box in your "Windows.." computer:

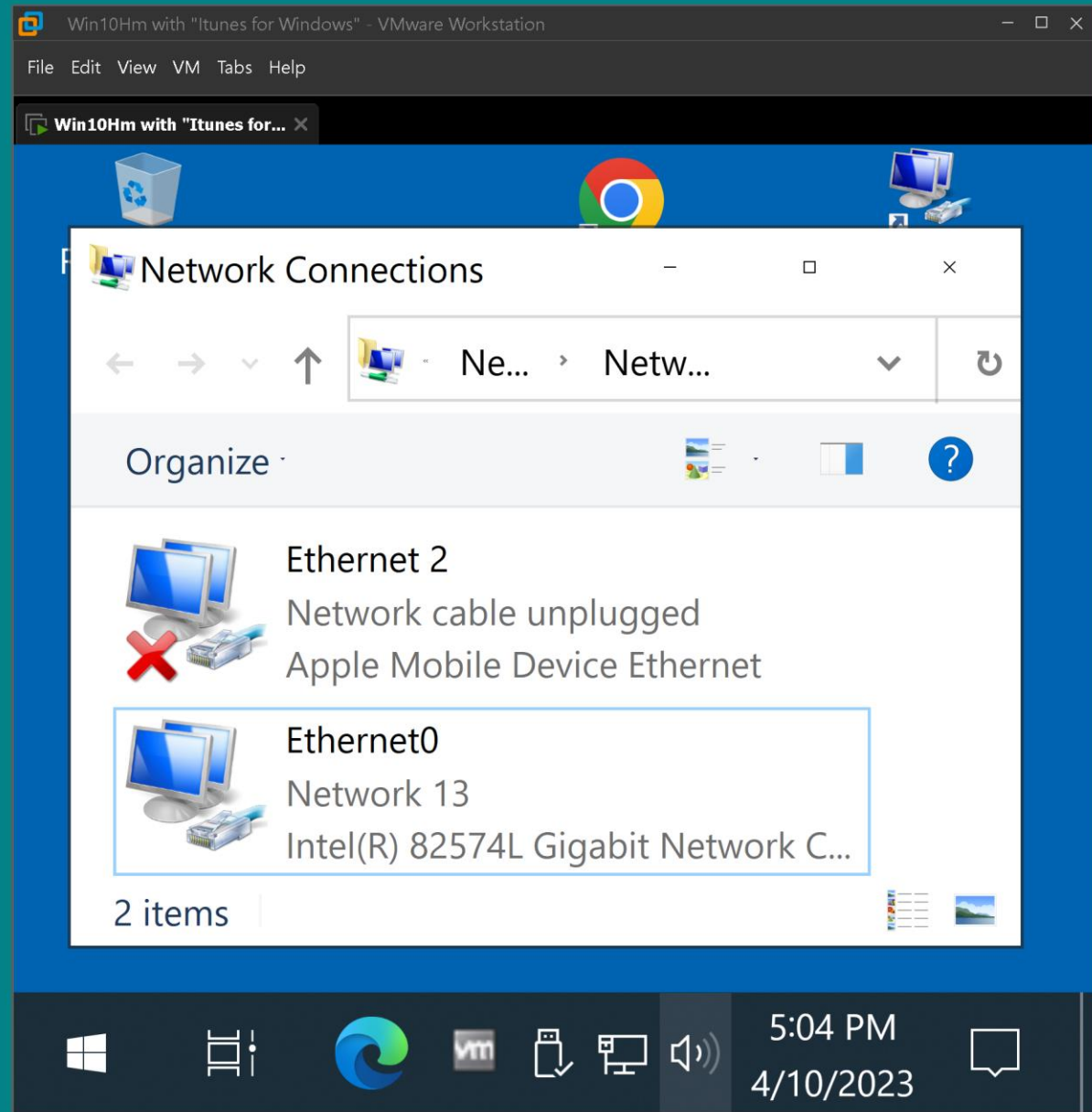
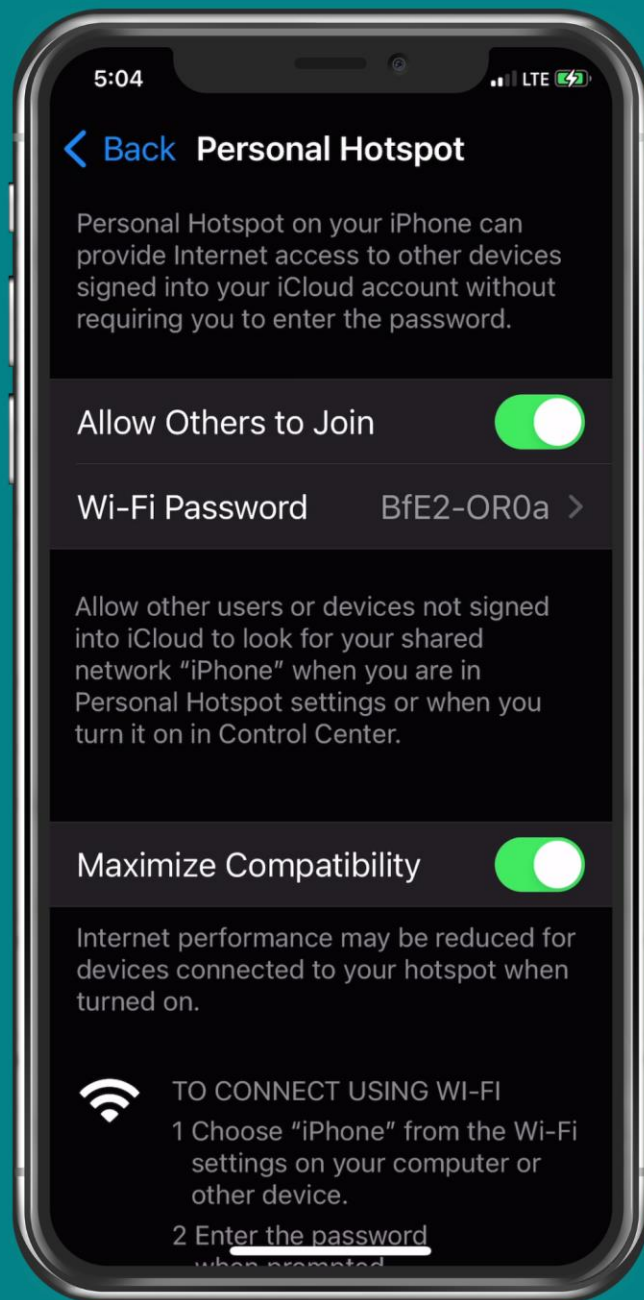


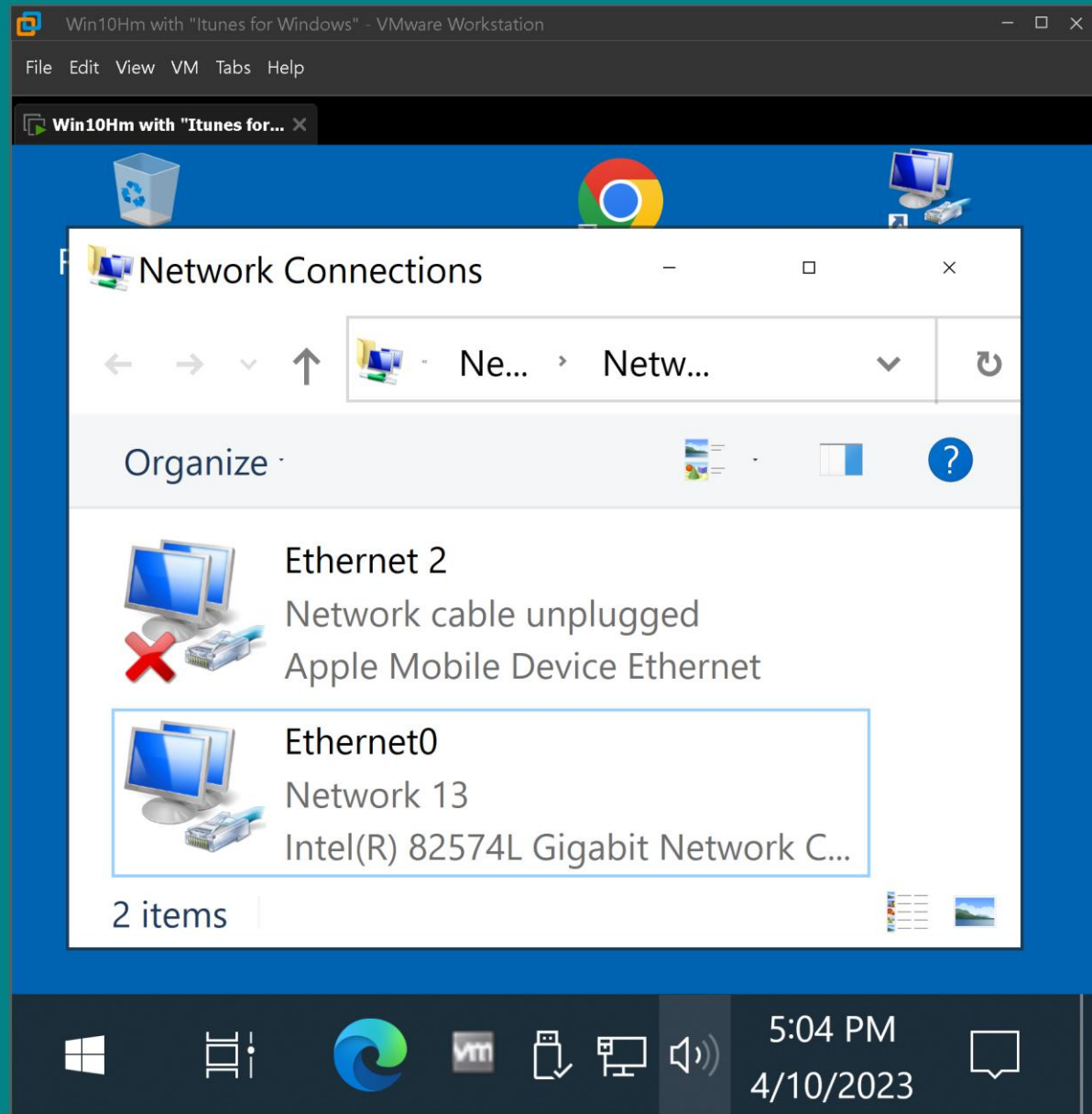
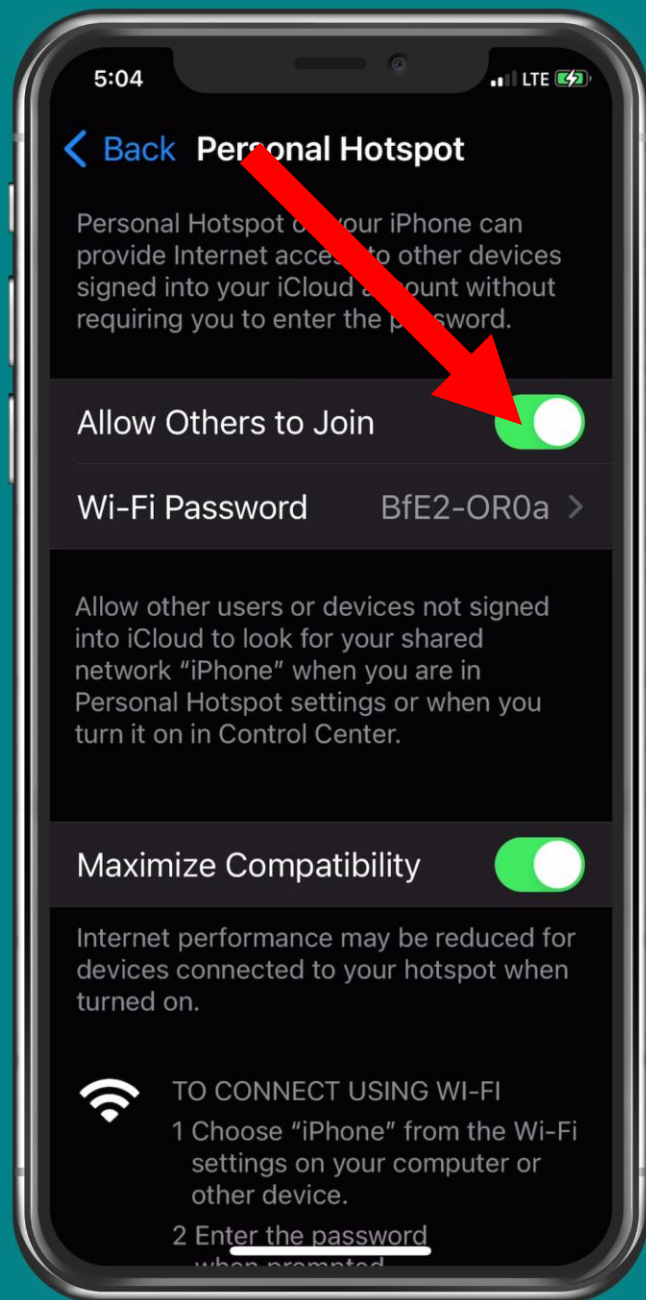




BIG STEP 300 (Activate the tethered Internet connection from the "Windows.." computer) (continued)

- **SMALL STEP 306:**
To enable the "Apple Mobile Device Ethernet" connection, go to "Personal Hotspot" inside "Settings" in your "iPhone" and toggle either from off to on
or from on to off and then back to on:





5:06



< Back Personal Hotspot

Personal Hotspot on your iPhone can provide Internet access to other devices signed into your iCloud account without requiring you to enter the password.

Allow Others to Join



Wi-Fi Password

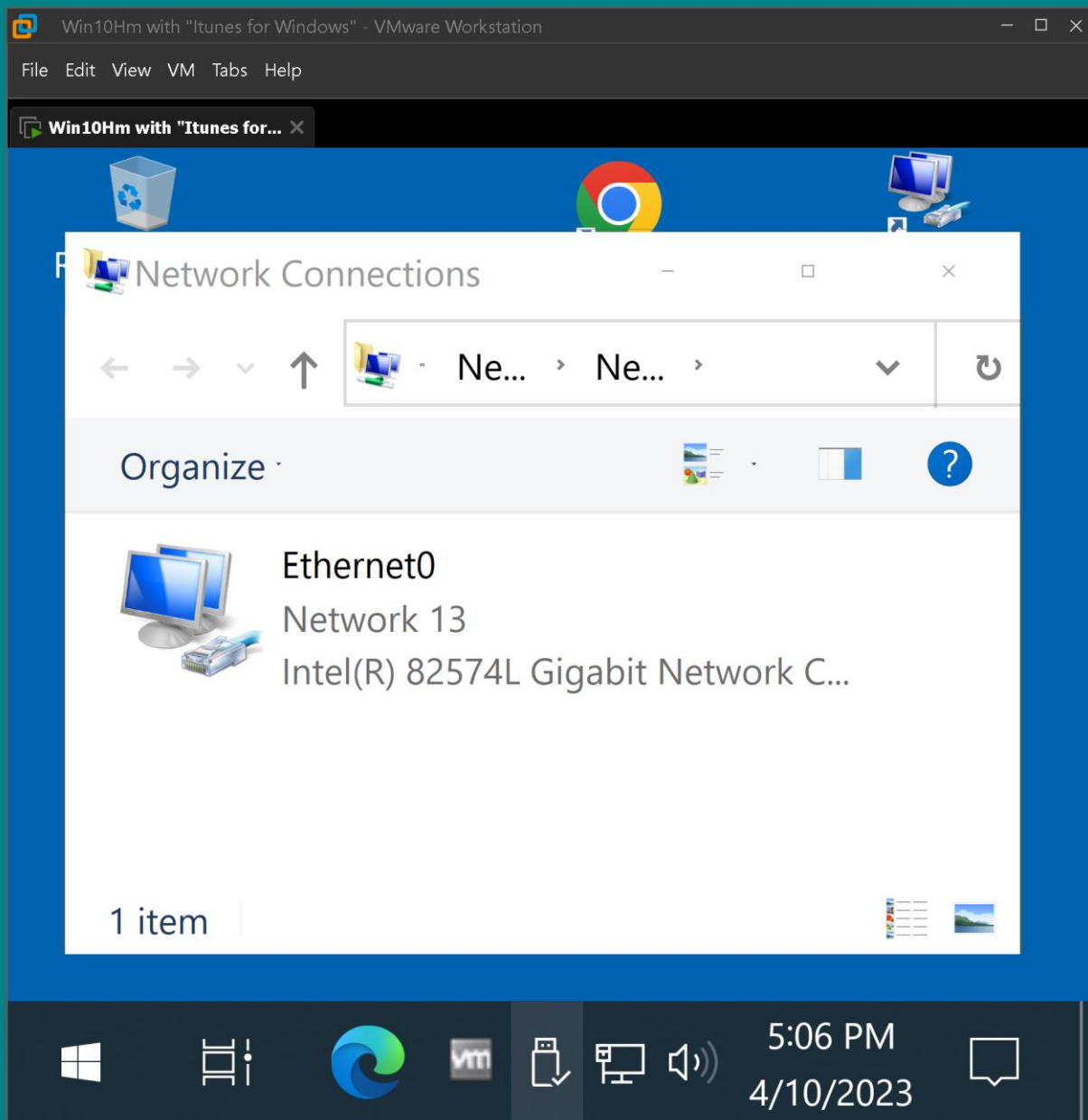
BfE2-OR0a >

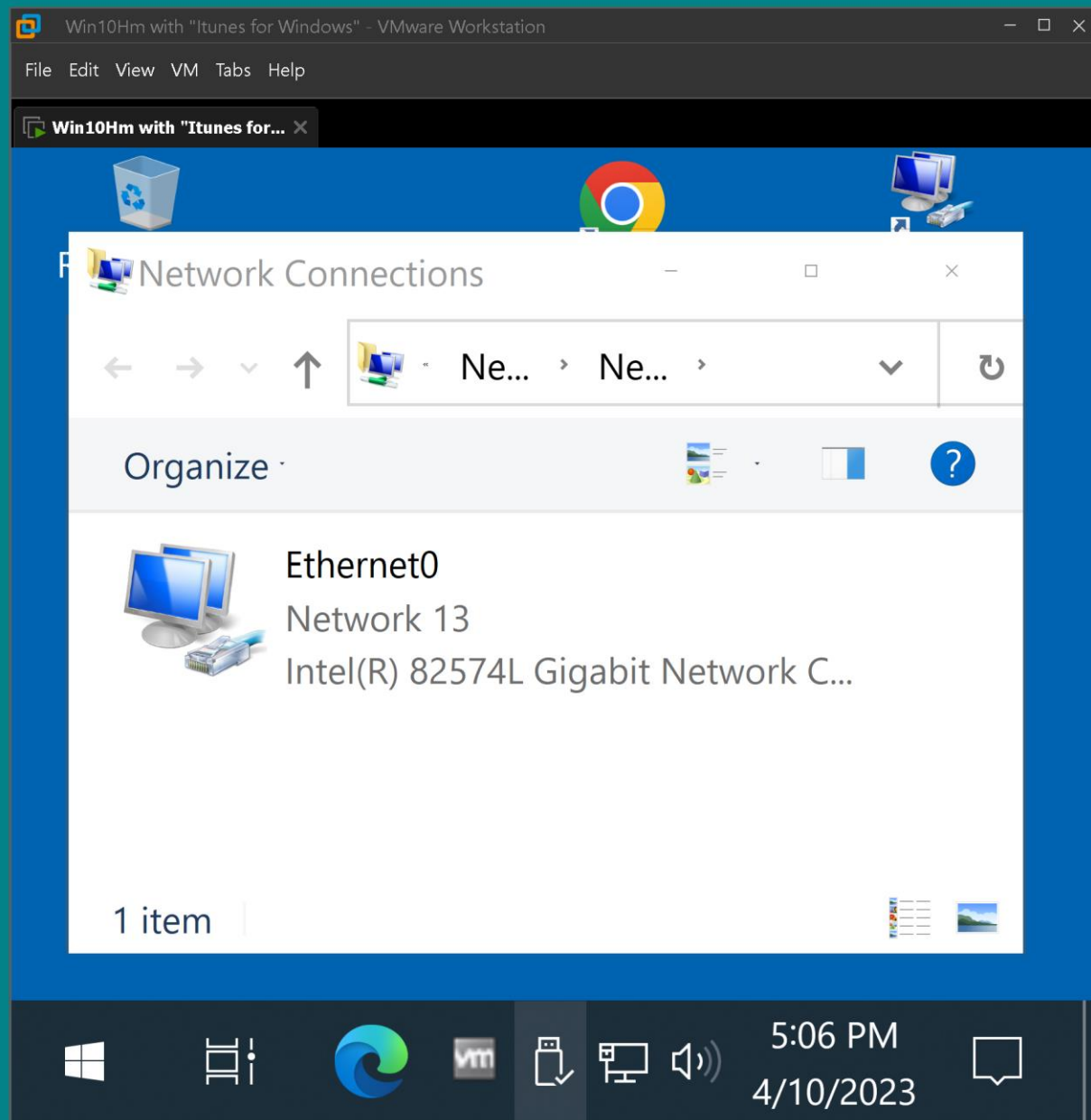
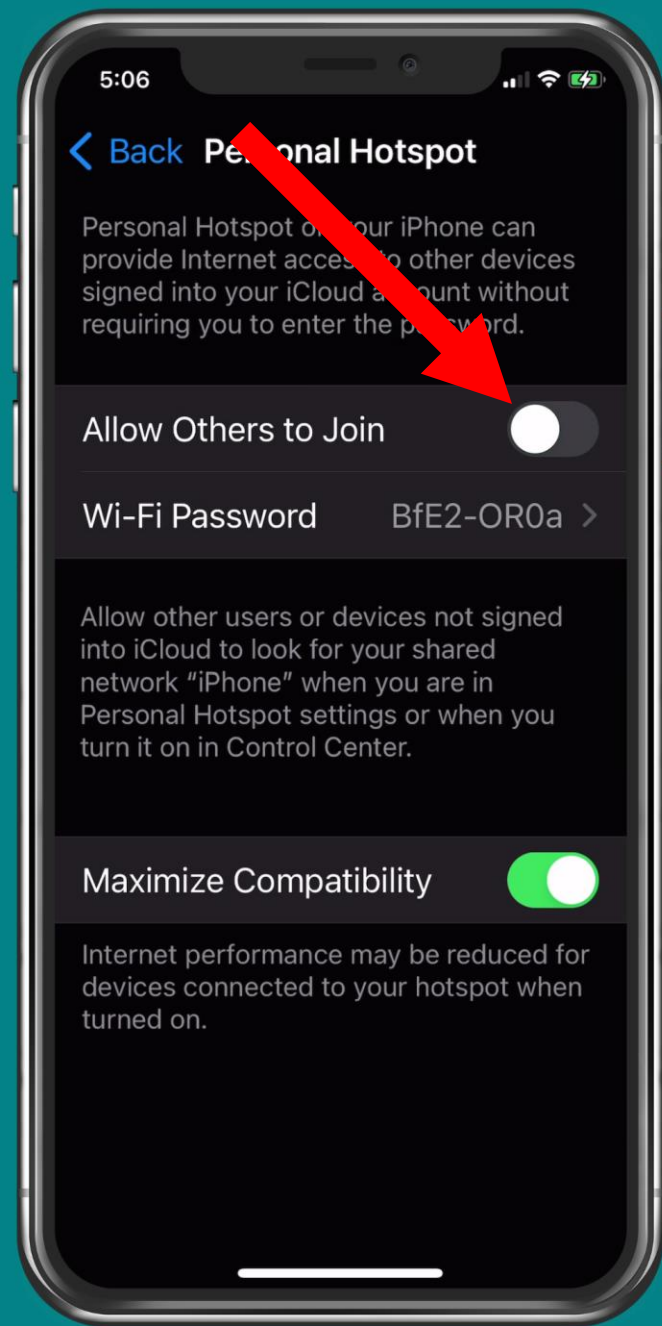
Allow other users or devices not signed into iCloud to look for your shared network "iPhone" when you are in Personal Hotspot settings or when you turn it on in Control Center.

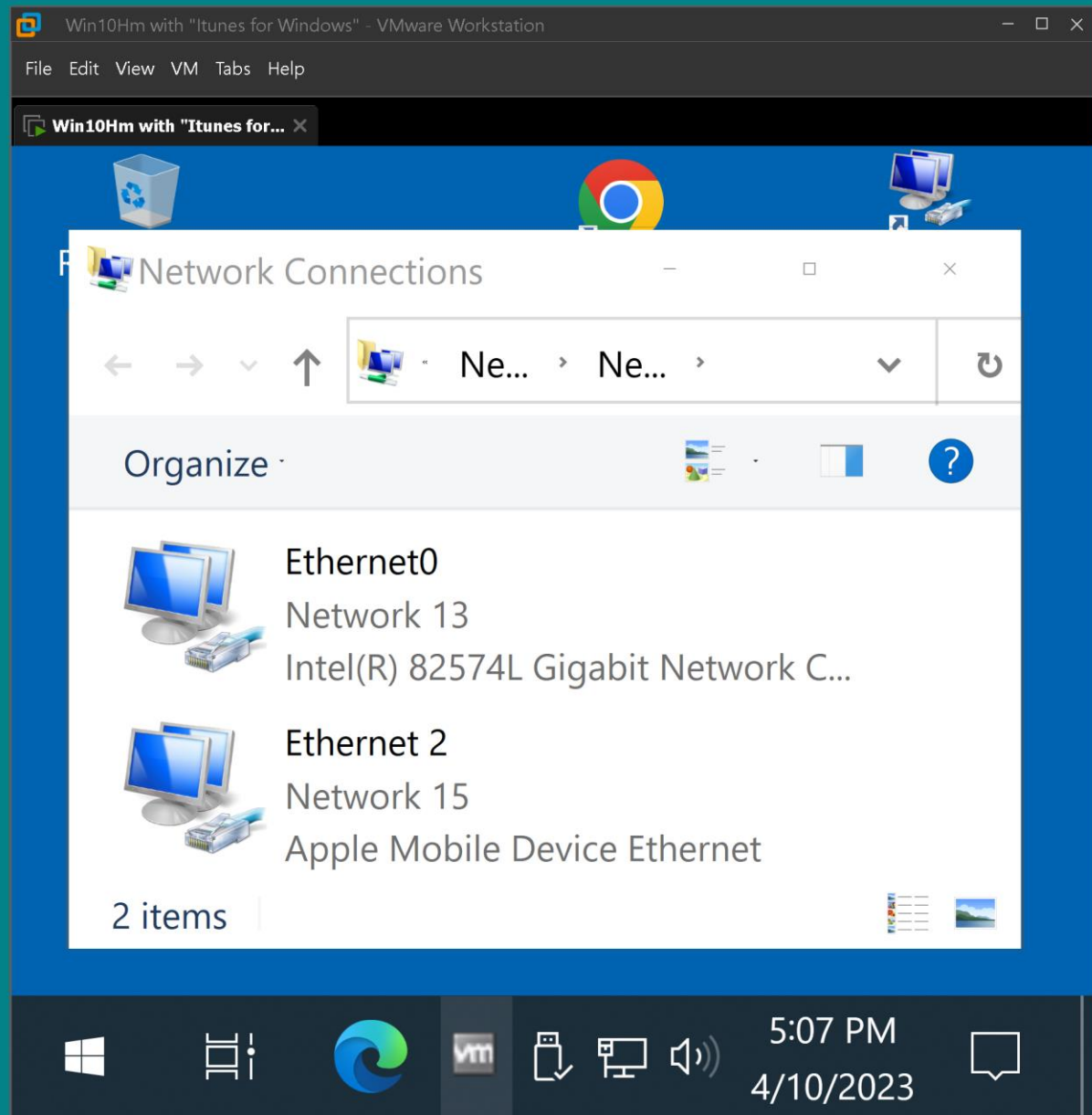
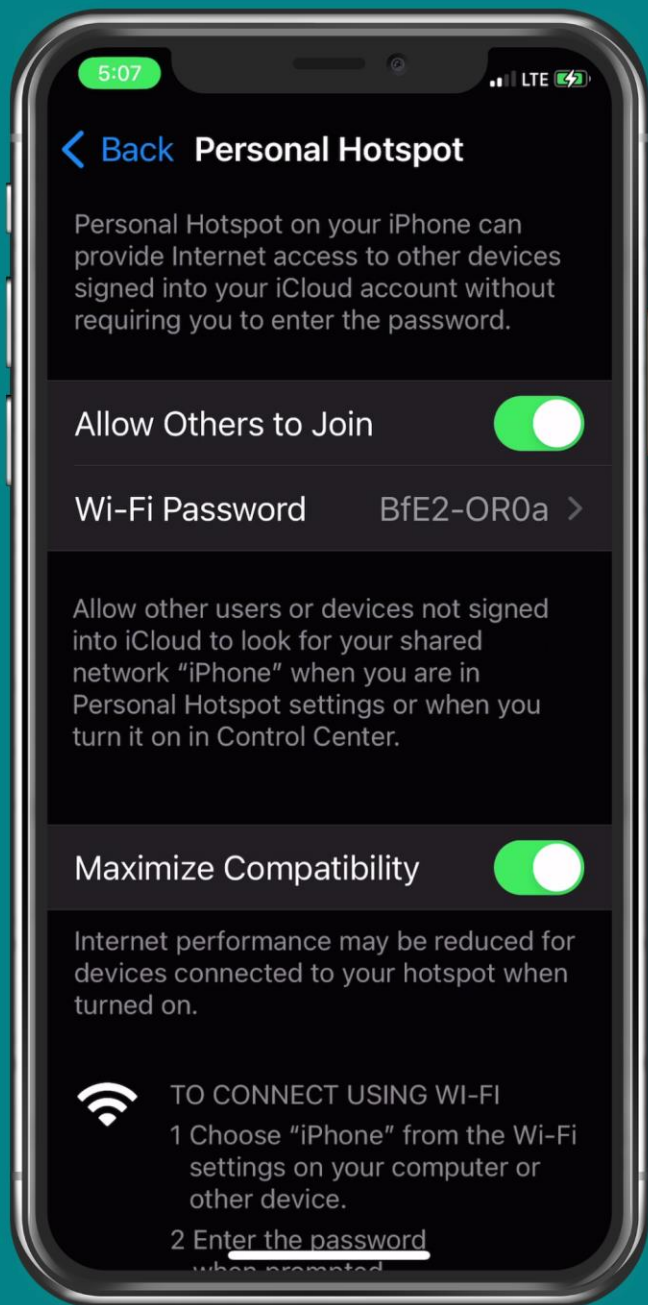
Maximize Compatibility



Internet performance may be reduced for devices connected to your hotspot when turned on.

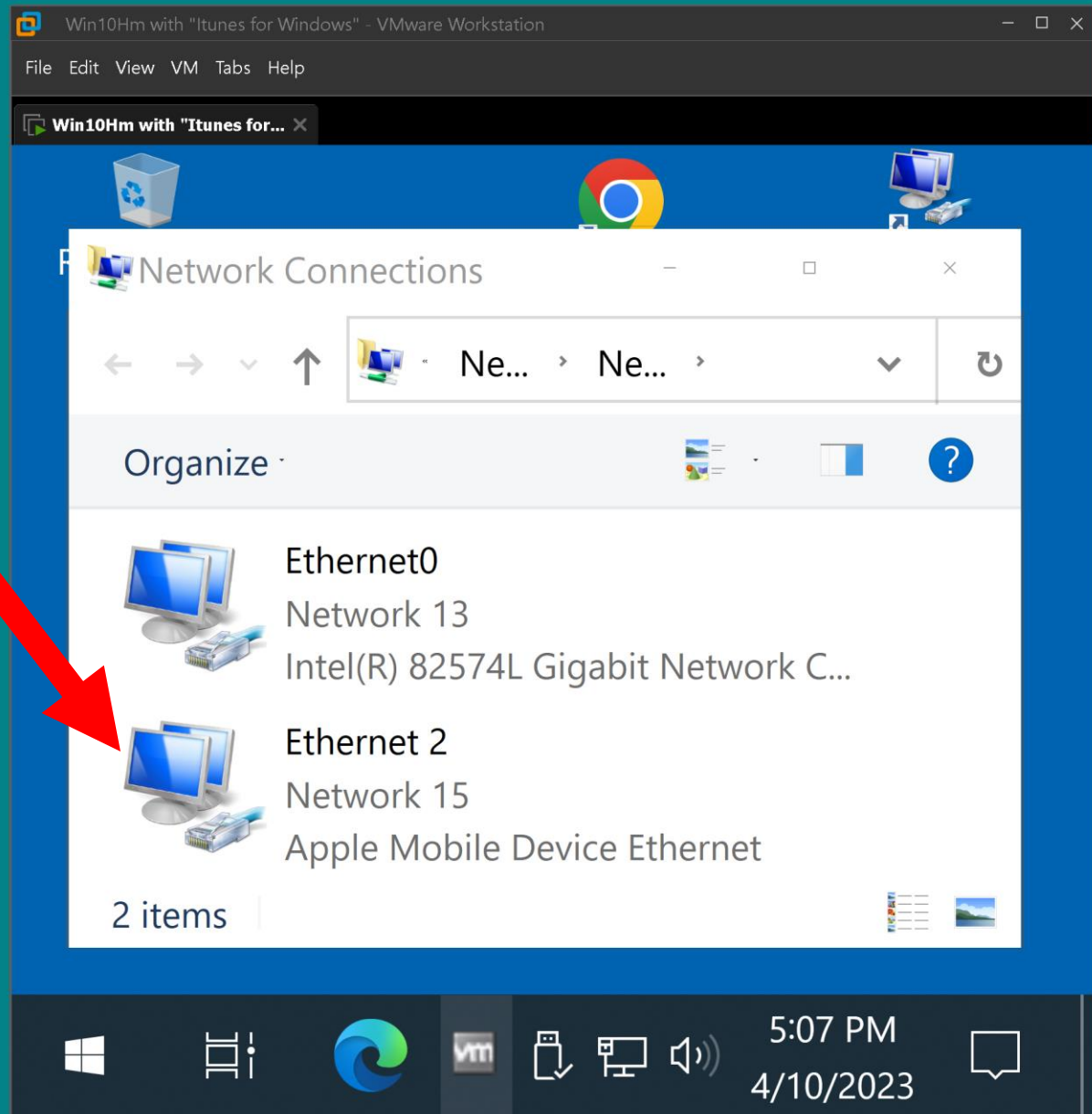
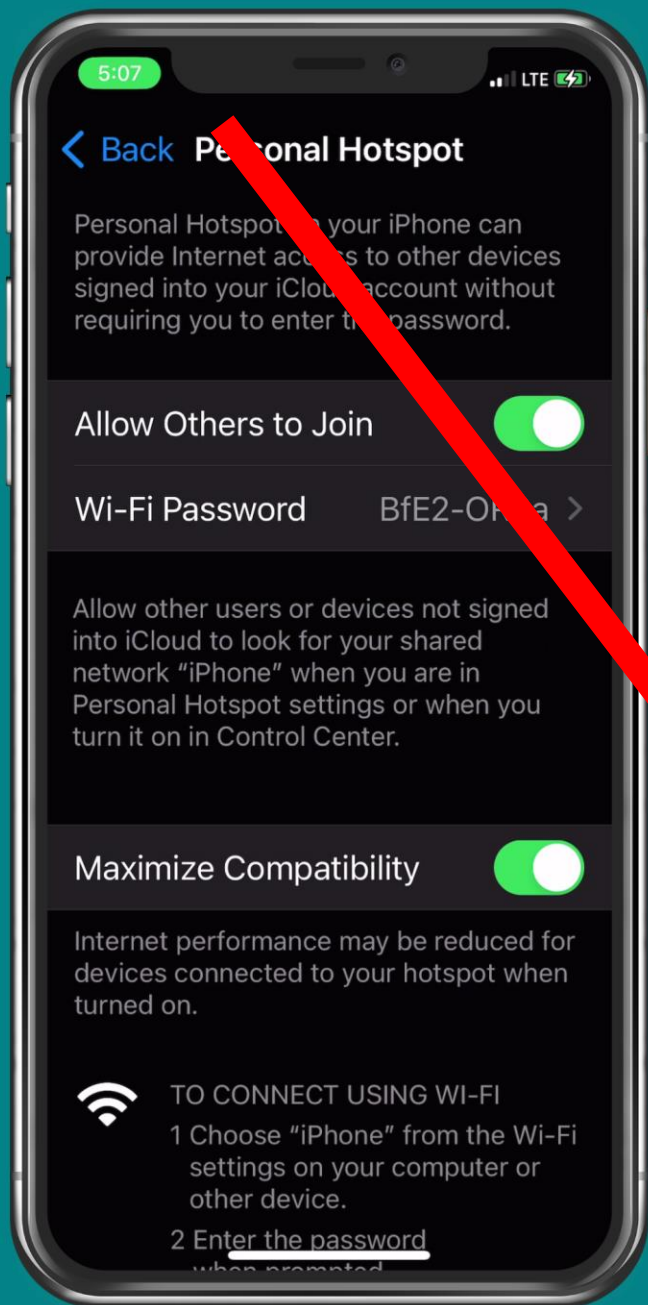


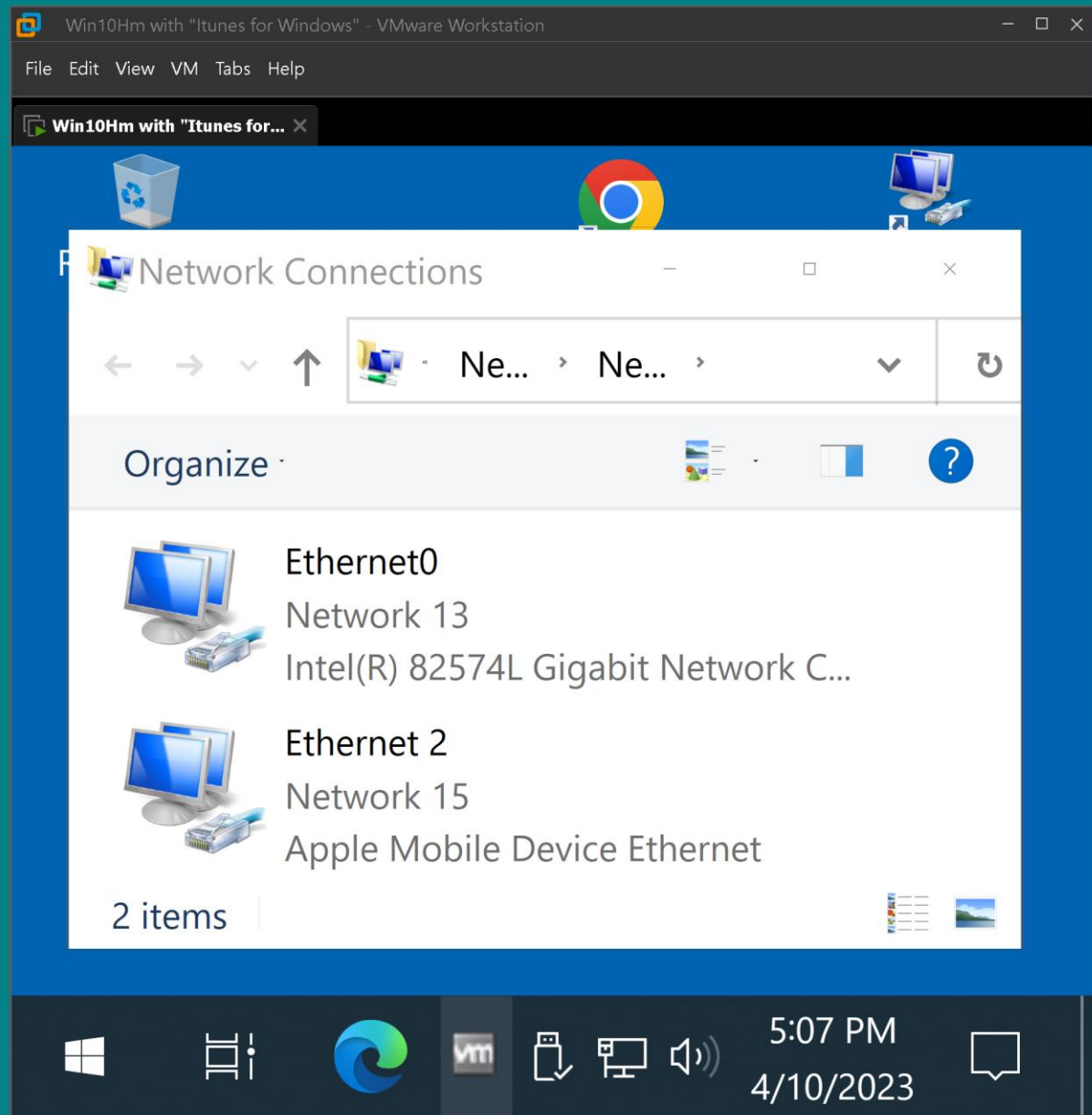
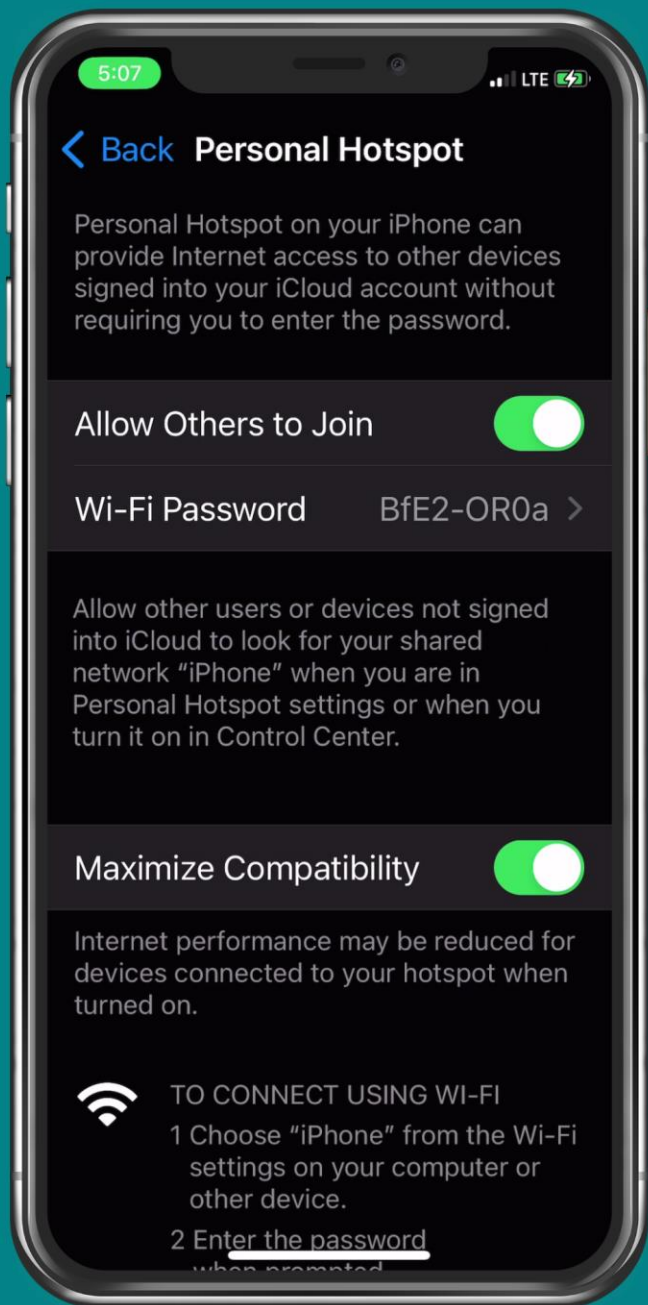




BIG STEP 300 (Activate the tethered Internet connection from the "Windows.." computer) (continued)

- SMALL STEP 307:
The "Apple Mobile Device Ethernet" connection will now be enabled:





BIG STEP 300 (Activate the tethered Internet connection from the "Windows.." computer) (continued)

- BIG STEP 308:

Use the RIGHT mouse button to disable on any network adapters that you do not want be connected to your "Windows.." computer to make sure that your tethered "iPhone" is the device that is providing an Internet connection for your "Windows.." computer:

