# Using "wireless Hosted Network" in Windows 7 or 8 or 8.1 or 10

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# Web location for this presentation:

http://aztcs.org Click on "Meeting Notes"

#### SUMMARY

If you already have a real WiFi adapter in a Windows 7 or 8 or 8.1 computer, the "wireless Hosted Network" feature lets you create a virtual WiFi adapter, that you can use for attaching a wireless printer, sharing an Internet connection, sharing files between computers, or creating a "Wireless Access Point" to extend the range of your existing WiFi network.

#### **TOPICS**

 Three ways to configure the "wireless Hosted Network" Feature of "Windows 7", "Windows 8", and "Windows 8.1"

#### **TOPICS** (continued)

- Command Line Method For Configuring "wireless Hosted Network"
   In "Windows 7", "Windows 8" and "Windows 8.1"
- "Wi-Host" Program For Configuring "wireless Hosted Network"
   In "Windows 7", "Windows 8" and "Windows 8.1"

#### **TOPICS** (continued)

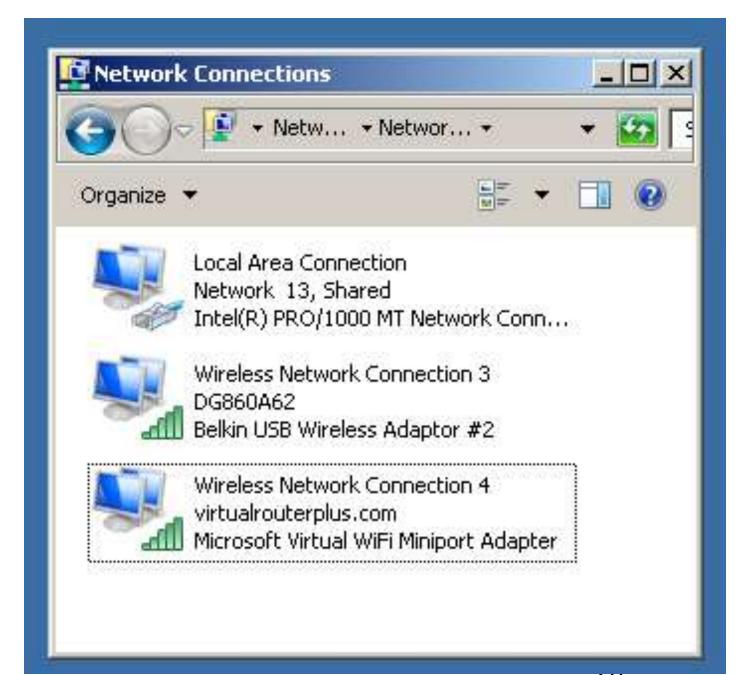
## "WIRELESS HOSTED NETWORK" FEATURE OF "WINDOWS 7\_8\_8.1"

 In "Windows 7", "Windows 8", and "Windows 8.1", there is a feature called "wireless Hosted Network":

If your computer already has a physical WiFi adapter in it, the "wireless Hosted Network" feature lets you create a virtual WiFi adapter.

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 In "Windows 7", the virtual WiFi adapter shows up in "Network Connections" as a "Microsoft Virtual WiFi Miniport Adapter":





Wireless Network Connection 4 virtualrouterplus.com Microsoft Virtual WiFi Miniport Adapter

 In "Windows 8" and "Windows 8.1", the virtual WiFi adapter shows up in "Network Connections" as a "Microsoft **Hosted Network Virtual** Adapter":

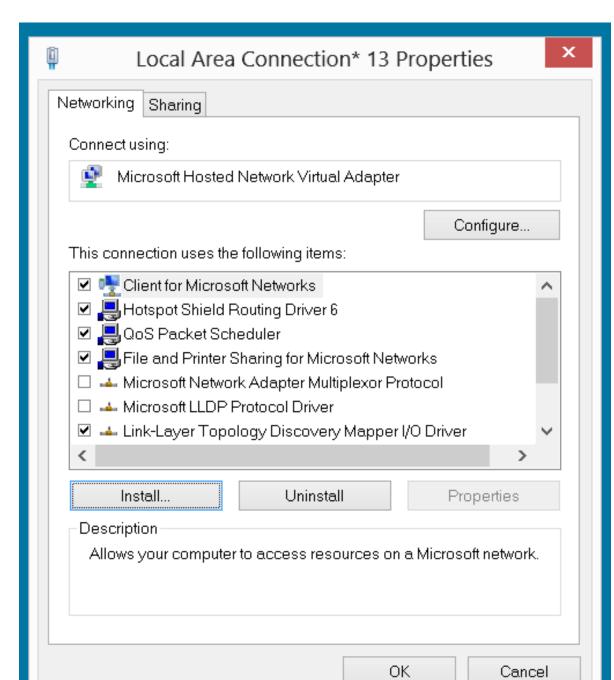


### Local Area Connection\* 13

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Microsoft Hosted Network Virtual ....

 In "Windows 8" and "Windows 8.1", the word "wireless" does not appear in the description of the virtual WiFi adapter that is created by the "wireless Hosted Network" feature:





#### Local Area Connection\* 13 Pr

Networking

Sharing

Connect using:



Microsoft Hosted Network Virtual Adapter

 In "Windows 10" the word "wireless" does not appear in the description of the virtual WiFi adapter that is created by the "wireless Hosted Network" feature and it called a "Microsoft Virtual Network Adapter"

In other words, in Windows 8 or 8.1 or 10, the WiFi adapter that you use for attaching other WiFi-capable devices including wireless printers must be a virtual one that is generated by the "Windows.." operating system.

 The net result is that your computer's software "sees" both the original real WiFi adapter AND the virtual WiFi adapter that is created by the "wireless Hosted Network" feature of "Windows.."19

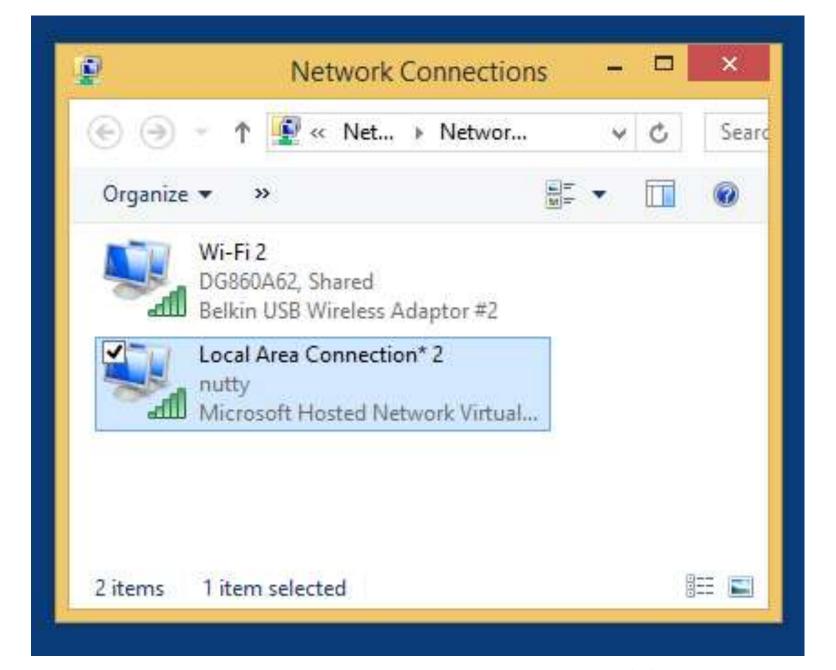
 Since "Windows 8" and "Windows 8.1" does not have "ad hoc mode" for WiFi adapters, the use of "wireless Hosted Network" configuration for WiFi adapters is the only way for you to connect a WiFi-capable printer directly to a "Windows 8" or "Windows 8.1" computer.

### COMPUTER WITH A REAL WiFi ADAPTER THAT IS CONNECTED TO A WIRELESS ACCESS POINT OF A REAL WIRELESS ROUTER:



#### Wi-Fi 2 DG860A62 Belkin USB Wireless Adaptor #2

COMPUTER WITH A REAL WIFI ADAPTER THAT IS CONNECTED TO A WIRELESS ACCESS POINT OF A REAL WIRELESS ROUTER AND A VIRTUAL "wireless HOSTED NETWORK" THAT IS BROADCASTING A SEPARATE VIRTUAL "WIRELESS ACCESS POINT":





#### Wi-Fi 2 DG860A62, Shared Belkin USB Wireless Adaptor #2



#### General Connection Internet IPv4 Connectivity: IPv6 Connectivity: No Internet access Media State: Enabled DG860A62 SSID: Duration: 00:05:16 Speed: 144.5 Mbps Signal Quality: Details... Wireless Properties Activity Sent -Received Bytes: 437,459 368,555 Disable Properties Diagnose

Close

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#### Wi-Fi 2 Status



#### General

Connection

IPv4 Connectivity: Internet

IPv6 Connectivity: No Internet access

Media State: Enabled

SSID: DG860A62

Duration: 00:05:16

Speed: 144.5 Mbps

Signal Quality:

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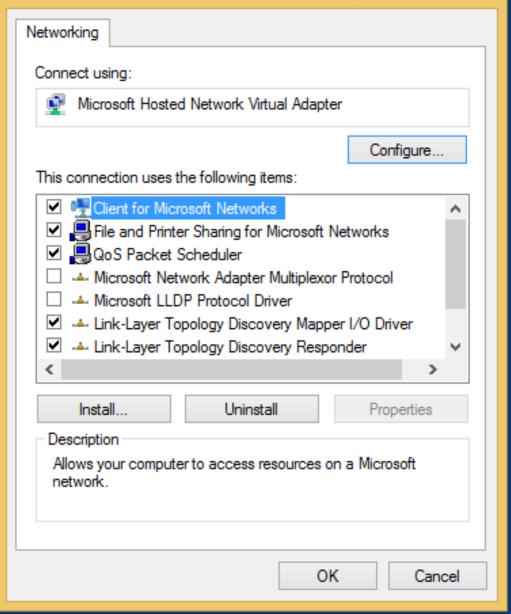
Details...

Wireless Properties

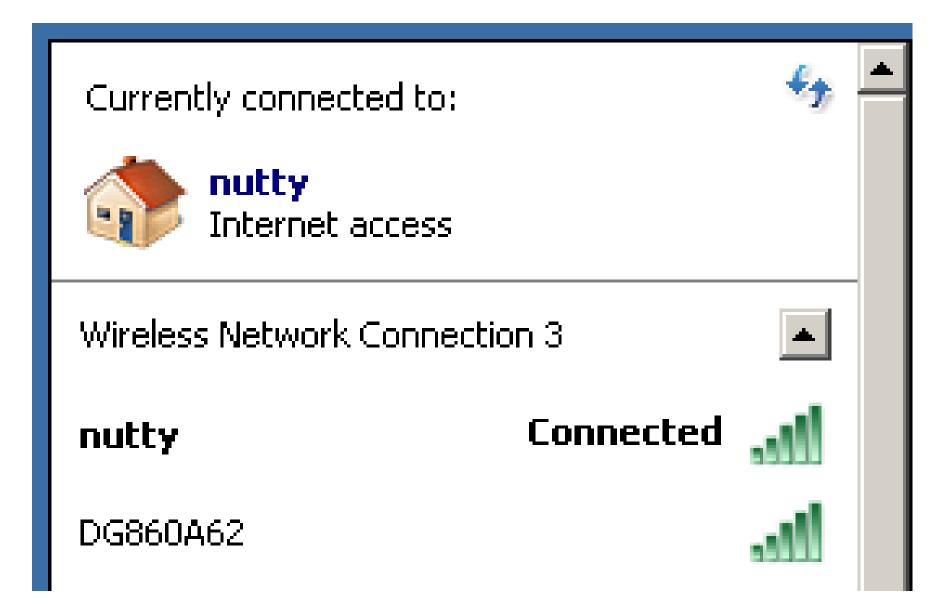


#### Local Area Connection\* 2 Properties









### THREE WAYS TO **CONFIGURE "WIRELESS HOSTED NETWORK"** FOR A WIFI ADAPTER IN "WINDOWS 7", "WINDOWS 8", OR "WINDOWS 8.1"

## THREE WAYS TO CONFIGURE "WIRELESS HOSTED NETWORK" IN

"WINDOWS 7\_8\_8.1"

- Command Line Method
- "Wi-Host" Program
- "Wireless Router Plus" Program

COMMAND LINE METHOD FOR CONFIGURING "WIRELESS HOSTED **NETWORK"** FOR A WIFI ADAPTER IN "WINDOWS 7", "WINDOWS 8", OR "WINDOWS 8.1"

# COMMAND LINE METHOD FOR CONFIGURING "WIRELESS HOSTED NETWORK" IN "WINDOWS 7\_8\_8.1\_10" (continued)

See
 http://blog.tommywck.com/2012/10/t
 utorial-use-your-windows-7-to-create.html

COMMAND LINE METHOD FOR CONFIGURING "WIRELESS HOSTED NETWORK" IN "WINDOWS 7\_8\_8.1\_10" (continued)

See

 http://www.practicallynetworked.com
 /networking/create\_a
 virtual\_wireless\_router\_with\_window
 s.htm

# COMMAND LINE METHOD FOR CONFIGURING "WIRELESS HOSTED NETWORK" IN "WINDOWS 7\_8\_8.1\_10" (continued)

See
 http://www.thewindowsclub.com/ena
 ble-internet-sharing-wifi-hotspot windows-8

 See
 http://geekswithblogs.net/BrentCask ey/archive/2011/06/09/re-installingwan-miniport-devices.aspx

See
 http://www.redmondpie.com/how-to-set-up-wireless-ad-hoc-internet-connection-in-windows-8/

See
 http://winaero.com/blog/where-is-the-ad-hoc-wireless-connection-feature-in-windows-8-and-windows-8-1/

See http://answers.microsoft.com/enus/windows/forum/windows8 1networking/windows-81-ad-hoc-notshowing/5d75d887-ff59-425e-a480-9f80ada63627

See
 http://superuser.com/questions/5933
 36/how-to-create-an-open-unencrypted-adhoc-wifi-network-in-windows8

See
 http://mycompgab.blogspot.com/201
 3/06/how-to-create-wireless-hosted-networks.html

See
 http://msdn.microsoft.com/en-us/library/windows/desktop/dd81524
 3(v=vs.85).aspx

See
 http://www.windows8core.com/how-to-create-virtual-wi-fi-hotspot-router-using-your-windows-8-pctablet/

### TWO FREE PROGRAMS FOR CONFIGURING "WIRELESS HOSTED NETWORK"

- "Wi-Host" is a portable software application that does not install itself into your "Windows.." computer
- "Virtual Router Plus" is a regular software program that you install into your "Windows.." computer.

"Wi-HOST" PROGRAM FOR CONFIGURING "WIRELESS HOSTED **NETWORK"** FOR A WIFI ADAPTER IN "WINDOWS 7", "WINDOWS 8", OR "WINDOWS 8.1"

#### "Wi-HOST" PROGRAM FOR CONFIGURING "WIRELESS HOSTED NETWORK" IN "WINDOWS 7 8 8.1 10"

 "Wi-Host" is a portable software program that runs as a stand-alone .exe file.

You cannot install "Wi-Host" into your computer.

"Wi-Host" is never displayed in "Programs and Features" in the Windows "Control Panel". 47

"Wi-HOST" PROGRAM FOR CONFIGURING "WIRELESS HOSTED NETWORK" IN "WINDOWS 7\_8\_8.1\_10" (continued)

See
 http://www.askvg.com/wi-host-freeware-to-turn-your-windows-pc-or-laptop-into-wi-fi-host-spot-to-share-internet-connection/

"Wi-HOST" PROGRAM FOR CONFIGURING "WIRELESS HOSTED NETWORK" IN "WINDOWS 7\_8\_8.1\_10" (continued)

 See
 http://www.ilovefreesoftware.com/22/ windows/internet/network/create-wifi-hotspot-on-pc-or-laptop-to-shareinternet-connection.html

#### "VIRTUAL ROUTER PLUS" PROGRAM FOR CONFIGURING "WIRELESS HOSTED **NETWORK"** FOR A WIFI ADAPTER IN WINDOWS 7 OR 8 OR 8.1 OR 10

### "VIRTUAL ROUTER PLUS" PROGRAM FOR CONFIGURING "WIRELESS HOSTED NETWORK" IN "WINDOWS 7 8 8.1 10"

"Virtual Router Plus" is a free software program that you install into your computer.

After you install it, "Virtual Router Plus" is displayed in "Programs and Features" of the Windows "Control Panel".

### "VIRTUAL ROUTER PLUS" PROGRAM FOR CREATING A WIRELESS ACCESS POINT IN "WINDOWS 7\_8\_8.1\_10" (continued)

"Virtual Router Plus" works in Windows 7 or 8 or 8.1 or 10: To get the program, click on the "United States" hyperlink at http://virtualrouterplus.com/download1/ or go to http://sourceforge.net/projects/virtualrout erpl/files/latest/download

### "VIRTUAL ROUTER PLUS" PROGRAM FOR CREATING A WIRELESS ACCESS POINT IN "WINDOWS 7\_8\_8.1\_10" (continued)

 To learn more about "Virtual Router Plus" do not use the download link at the bottom of the page but read the information at http://lifehacker.com/5983161/virtualrouter-plus-turns-your-windows-8-pcinto-a-wi-fi-hotspot