

Carl Lance

Thursday, June 20, 2013

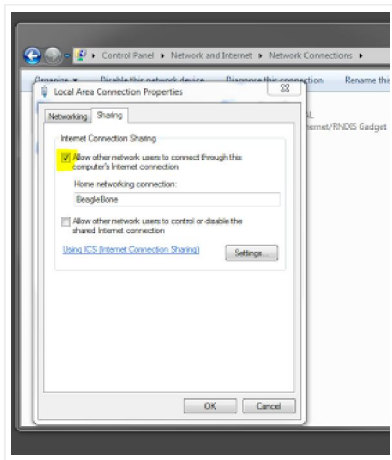
Windows 7 Internet Sharing for BeagleBone Black

I wish I better understood WHY this was *necessary*.

At one point my BBB "just worked". When it was plugged into my desktop computer via USB (Windows 7 machine) the BBB had internet connectivity just fine. After working to solve other issues it stopped. In any case, it works again with the following steps:

On the Windows 7 computer:

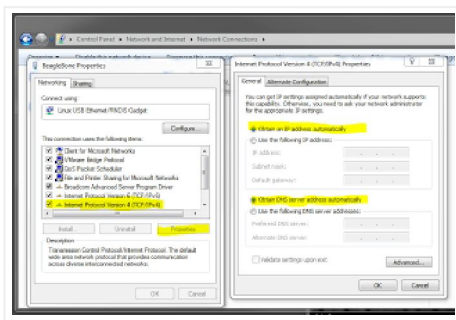
- Control Panel -> Network and Internet -> Network Connections
- Right-click your internet connection, Properties, Sharing Tab
- Click "Allow other network users to connect thru this computer's Internet connection"
- Select the BeagleBone Black's network connection under "Home networking connection:"
- Click OK.



Here's the trick: when I did this, Windows assigned a static IP to the BBB connection. Why? No idea.

You have to go back to that connection and reset it to DHCP.

- Control Panel -> Network and Internet -> Network Connections
- Right-click the BeagleBone Black's connection, Properties
- Click Internet Protocol Version 4 (TCP/IPv4), Click Properties
- Click "Obtain an IP address automatically"
- Click "Obtain DNS server address automatically"
- Click OK. Click CLOSE.



On the BBB:

This makes the BBB route internet traffic thru the host (Windows 7 in this case) and DNS thru Google's DNS Servers (8.8.8.8).

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Carl Lance

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```
route add default gw 192.168.7.1
echo "nameserver 8.8.8.8" >> /etc/resolv.conf
```

Try It:

```
ping www.google.com
```

Make it Persistant:

To make this "stick" after a reboot of the BBB, you need to add these commands to the ethernet startup script on the BBB (/usr/bin/g-ether-load.sh).

NOTE: You CANNOT simply add these commands to the bottom of that script file. They must go before the udhcpd starts. It does not return control to the script so adding them at the bottom of the file does nothing for you. My script file now looks like this:

```
/sbin/ifconfig usb0 192.168.7.2 netmask 255.255.255.252
/sbin/route add default gw 192.168.7.1
echo 'nameserver 8.8.8.8' >> /etc/resolv.conf
```

```
/usr/sbin/udhcpd -f -s /etc/udhcpd.conf
```

IT WORKS!

A big thanks to robert@rplural.net who got me moving in the right direction. Read his description of the parallel steps for a Linux host! (<http://www.rplural.net/BlackNetworking>)

Posted by [Carl Lance](#) at 6:56 AM



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Labels: [Beagle](#), [Beaglebone](#), [Gadget](#), [ICS](#), [Internet](#), [Linux](#), [RNDIS](#), [USB](#)

25 comments:

Snehal Patil September 19, 2013 at 11:09 AM

Amazing!!! I was stuck with this for a long time! Thanks a ton for sharing this!!!

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[Replies](#)



gaurav March 30, 2014 at 1:25 PM

@sneha: hii .. are you using the BBB board ??

[Reply](#)



vinayak aghor October 13, 2013 at 9:12 PM

Can we do this on Windows vista.?

I have USB 3G connection & Vista / Ubuntu 12. Please post procedure to share connection in either OS.

[Reply](#)

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Carl Lance October 14, 2013 at 7:02 AM

I am sorry but I do not have nor do I know Windows Vista.

[Reply](#)



Zain Dar November 5, 2013 at 9:51 PM

This comment has been removed by the author.

[Reply](#)



Daniel November 11, 2013 at 6:45 PM

THANK YOU!! I looked everywhere to get this to work, I tried bridging the connections, but that flopped. I didn't think of doing it this way. Thanks for saving me hours of trolling through the internet!

[Reply](#)

**PINKU** December 26, 2013 at 6:45 AM

Thank you, it is work fine

[Reply](#)**Agni Biswas** January 9, 2014 at 5:40 AM

this worked fine for angstrom but it didn't work for ubuntu 13.10 . please help !!

[Reply](#)**GWDeveloper** February 1, 2014 at 10:22 AM

Excellent work!

[Reply](#)**Valdir Gomes** February 13, 2014 at 11:00 PM

Hi, I'm running Ubuntu in my BBB and there is no /usr/bin/g-ether-load.sh in Ubuntu, could you help me?

[Reply](#)[Replies](#)**Alex Schimp** October 25, 2014 at 1:35 PM

I'm running Debian on my BBB and I didn't find the /usr/bin/g-ether-load.sh file either. I was able to get it to work by editing the /opt/scripts/boot/am335x_evm.sh file.

Look for the following lines towards the bottom of that file:

```
/sbin/ifconfig usb0 192.168.7.2 netmask 255.255.255.252
/usr/sbin/udhcpd -S /etc/udhcpd.conf
```

Immediately after those lines, add the following line:

```
/sbin/route add default gw 192.168.7.1
```

That worked for me.

[Reply](#)**aalia lyon** April 21, 2014 at 3:07 AM

Ita a really a nice blog. This blog help you for solve your windows 7 related problem ,and its fix you error . please visit this link .

[windows 7 problems](#)

Thank you

Aalia Lyon

[Reply](#)**Guzzi sager** May 9, 2014 at 4:42 AM

Very informative and worthy post. Thanks for the sharing such a precious updates with us.

[Panasonic - 13.1" Toughbook Notebook - 4 GB Memory - 500 GB Hard Drive \(CF-31SFLAX1M\)](#)[Panasonic - 14" Toughbook Notebook - 4 GB Memory - 500 GB Hard Drive \(CF-53SALC8LM\)](#)[Reply](#)**George A** May 31, 2014 at 6:33 PM

Just tried this on a bbb running ubuntu 13.04 linked to a win7 pc. Works great. Many thanks!

[Reply](#)**john son** December 21, 2014 at 10:31 PM

Interesting blog. This is one of my favorite blog also I want you to update more post like this. Thanks for sharing this article.

[Internet Center in Chennai](#)[Reply](#)**Rich Bunnell** April 28, 2015 at 12:24 AMNice blog. Try click here [www.vanskeys.com](#).[Reply](#)**Shehroz Javed** April 30, 2015 at 6:29 AMReally Nice Information, Thank You Very Much For Sharing. [Wordpress Development Company](#)

[Reply](#)**Harald** May 3, 2015 at 6:30 PM

Discovered this little type and was easy to solve, Otherwise thanks a lot for the post, just hope it really sticks because I don't have time to do this all the time.

```
root@beaglebone:~# /usr/sbin/udhcpd -f -s /etc/udhcpd.conf
/usr/sbin/udhcpd: invalid option - 's'
BusyBox v1.20.2 (2013-04-03 21:07:04 CEST) multi-call binary.
```

Usage: udhcpd [-fs] [CONFFILE]

```
root@beaglebone:~# /usr/sbin/udhcpd -fS /etc/udhcpd.conf
udhcpd (v1.20.2) started
```

[Reply](#)**Clash Of Clans YT** August 31, 2015 at 5:13 PM

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[Reply](#)**Clash Of Clans YT** September 1, 2015 at 7:51 AM

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Garza Marsha September 25, 2015 at 5:49 AM

I want to thank Sara here, she has won my business and I'll be posting my experience to you and others.

My old computer crashed days ago. I had to buy a new computer. It costed me much.

My budget was not much. To purchase a windows 7 product key from MS was not enough. Then I went to Tomshardware, and one guy recommended WindowsKeysale.com to me. Their price did attract me. So I decided to try after several emails to Sara. She was very patient and answered clearly to all my questions. I received the key immediately after I sent 35 bucks. It worked perfectly. I was very very satisfied.

I'll be buying from WindowsKeysale.com from now on as well.

[Reply](#)



Clash Of Clans YT October 9, 2015 at 11:02 AM

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Assault CubeHack October 26, 2015 at 3:31 PM

Bonjour à tous ! sur mon site vous trouverez des codes Free Wifi privé et qui ne se désactive jamais ou du moins pour longtemps !


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Dvidz Cpora October 30, 2015 at 3:24 PM

Bonjour, à tous j'offre et partage des codes Free Wifi Code Orange et SFR chaque semaine pour vous connecté à internet dans toutes la france

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Dvidz Cpora October 31, 2015 at 11:57 AM

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