

Ad Hoc Documentation v1.0

1. Ubuntu

A. Creating an Ad Hoc network by script

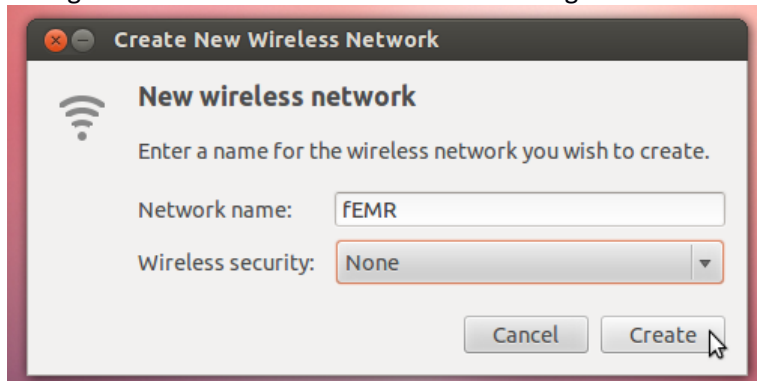
- I. In terminal go to the `..\femr\related_documents\AdHoc\` directory which has the `UbuntuAdHoc` file
- II. Type `'chmod 755 UbuntuAdHoc'` and press enter
- III. Type `'./UbuntuAdHoc'` and press enter
- IV. Enter the password `'wsu1868'`
- V. Wait for fEMR to show up in the internet connection list and select it.

B. Creating an Ad Hoc network from scratch

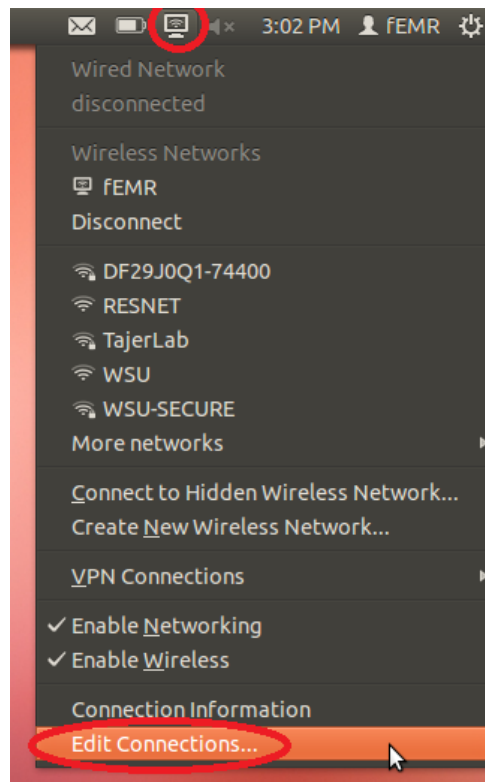
- I. In the top right corner press the internet connection button
- II. Press the “Create New Wireless Network...” button



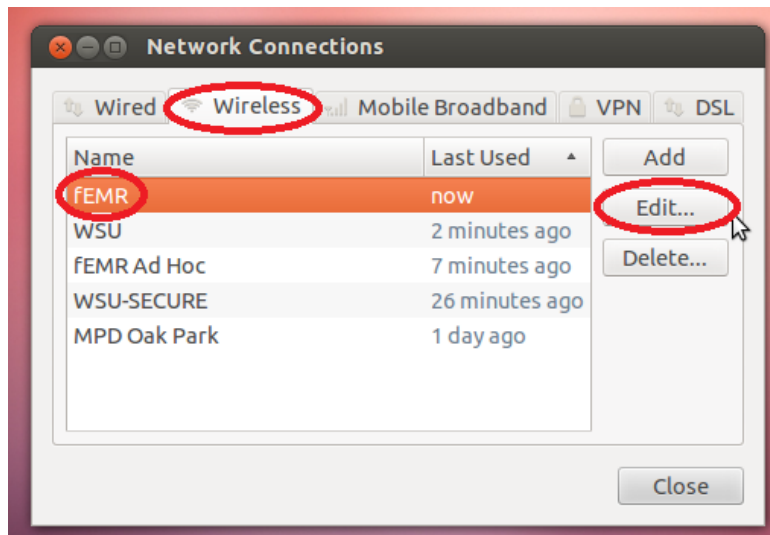
- III. Change the network name to “fEMR” and change the wireless security to “None”



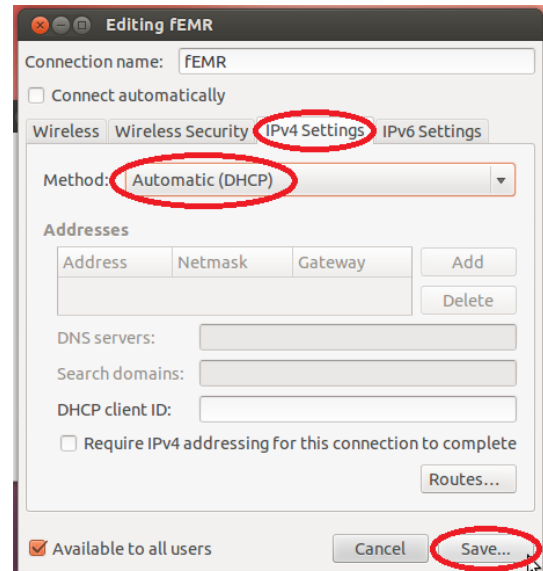
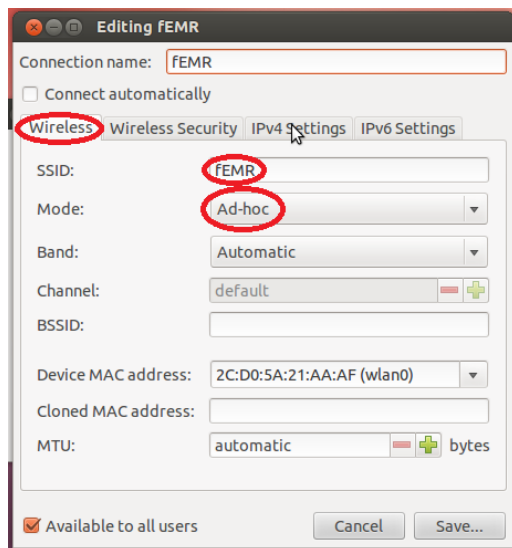
- IV. Press the internet connection button again, it may look different, and click the “Edit Connections...” button



- V. Select the “Wireless” tab, select the connection named “fEMR” and press the “Edit” button



- VI. Under the “Wireless” tab make sure the mode is set to “Ad-Hoc” and band is set to “Automatic”. Under the “IPv4 Settings” tab make sure the method is set to “Automatic (DHCP)”



- VII. Press the “Save...” button.

C. Starting the Ad Hoc Network

- I. In the top right corner press the internet connection button
- II. Click the “fEMR” button.

D. Accessing the Program

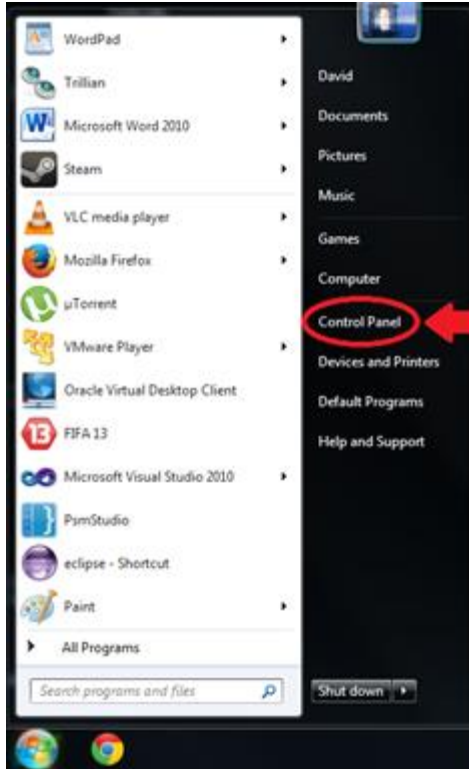
- I. Connect to the fEMR network
- II. Open a web browser and in an address bar input the URL '10.42.0.1:9000' and press enter

2. Windows

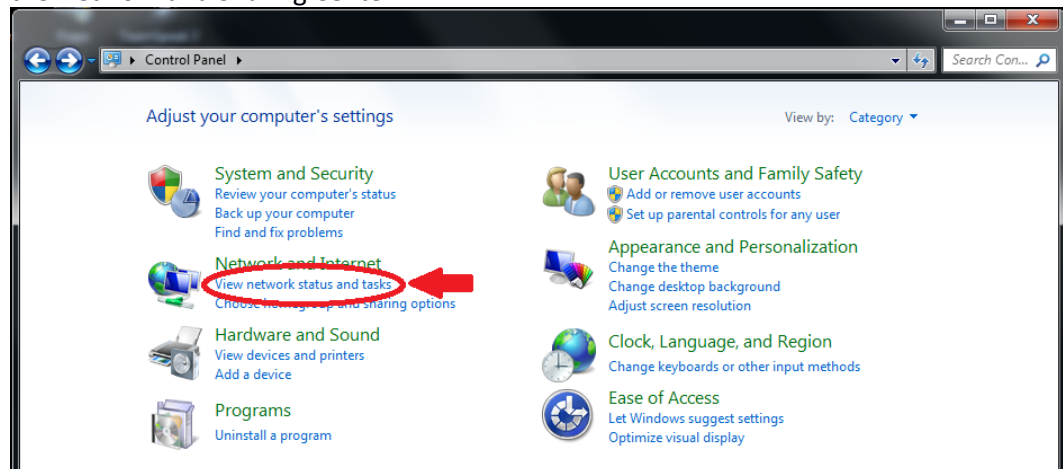
A. Ad Hoc Network

I. Creating an Ad Hoc network

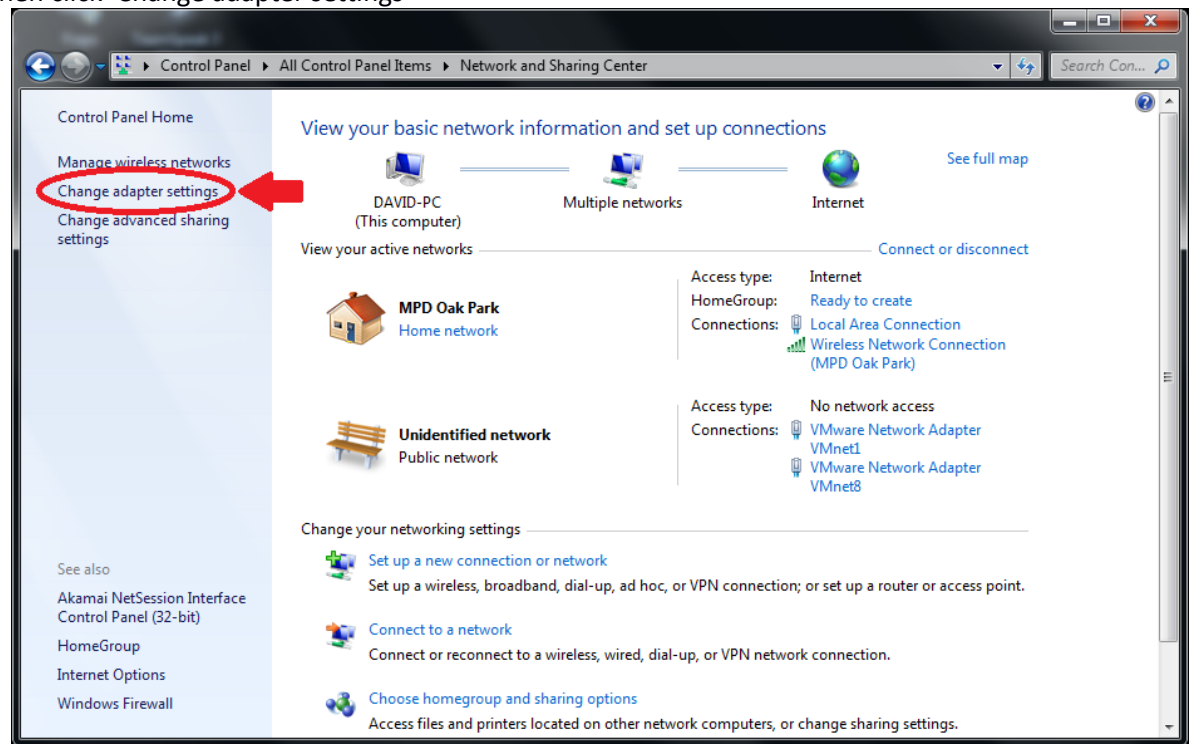
- a. The first thing you need to do is set a static IP for the host computer. Start by opening the Control Panel.



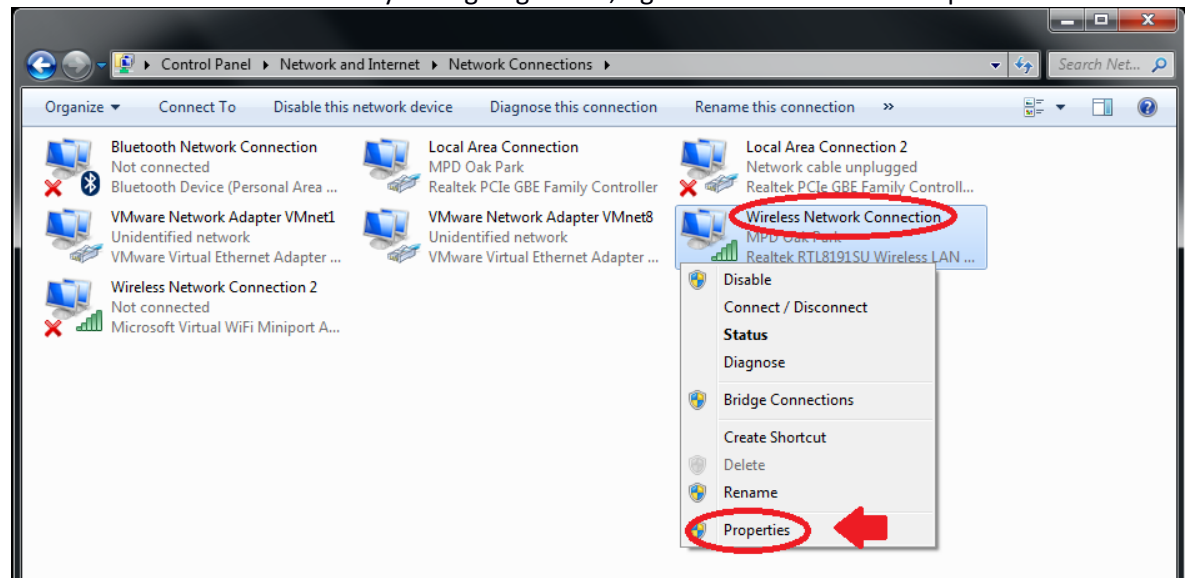
- b. Under "Network and Internet", click "View network status and tasks." This will open the Network and Sharing Center.



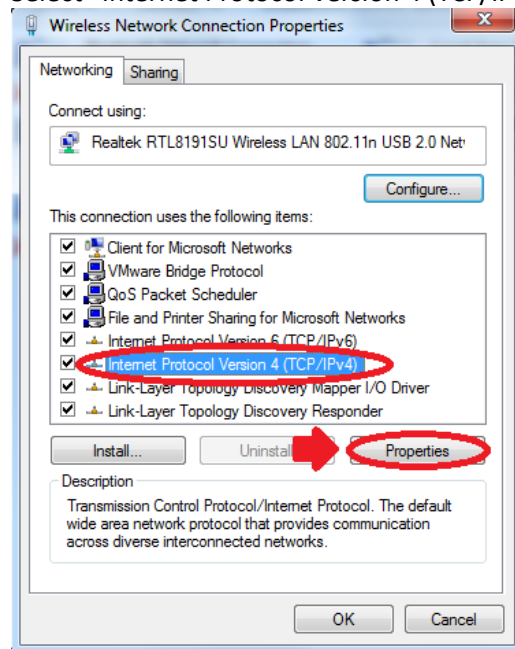
c. Then click 'Change adapter settings'



d. Find the wireless network card you're going to use, right click it and select "Properties"



- e. Select “Internet Protocol Version 4 (TCP/IPv4) and the click “Properties”

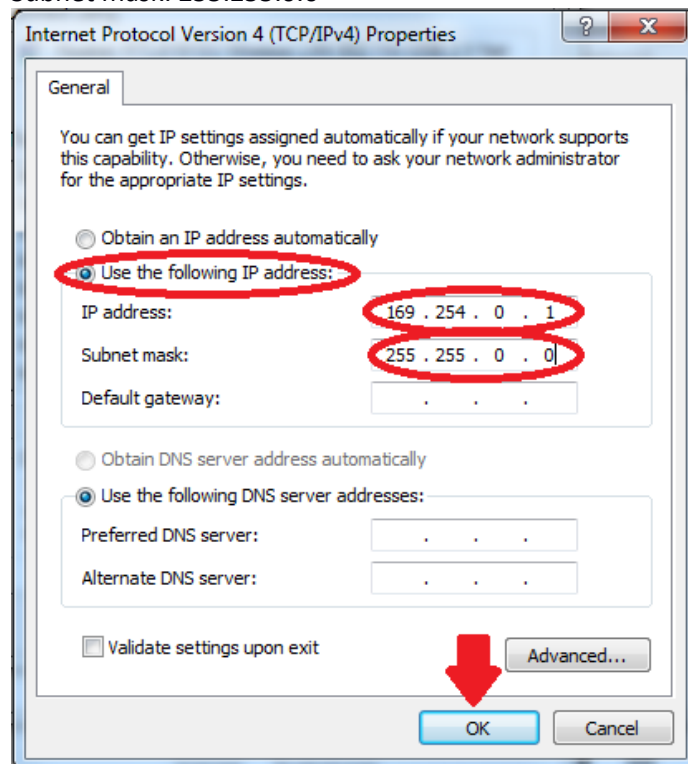


- f. Under the “General” tab adjust the settings to match the picture. Then click OK.

Select ‘Use the following IP address’

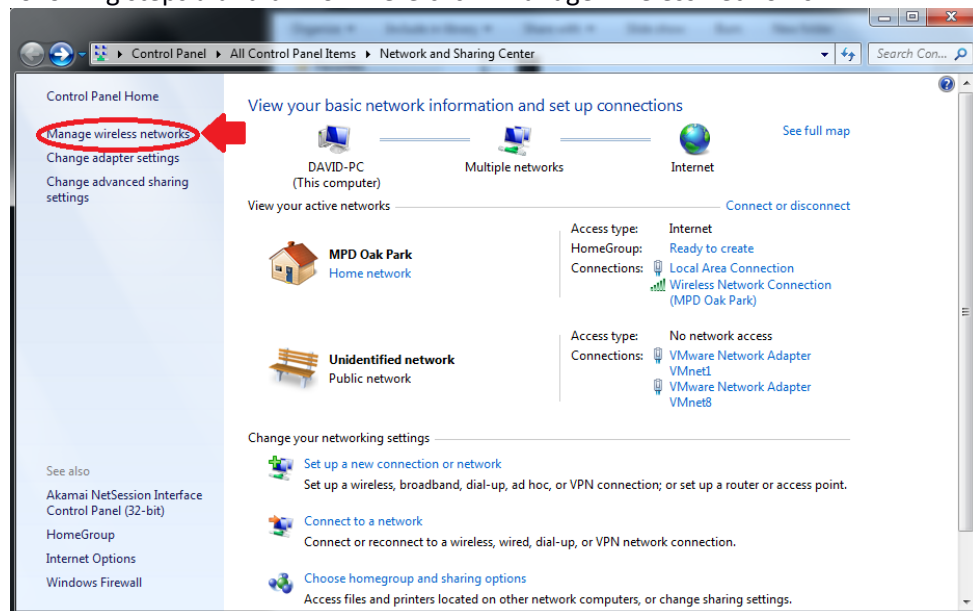
IP address: 169.254.0.1

Subnet mask: 255.255.0.0

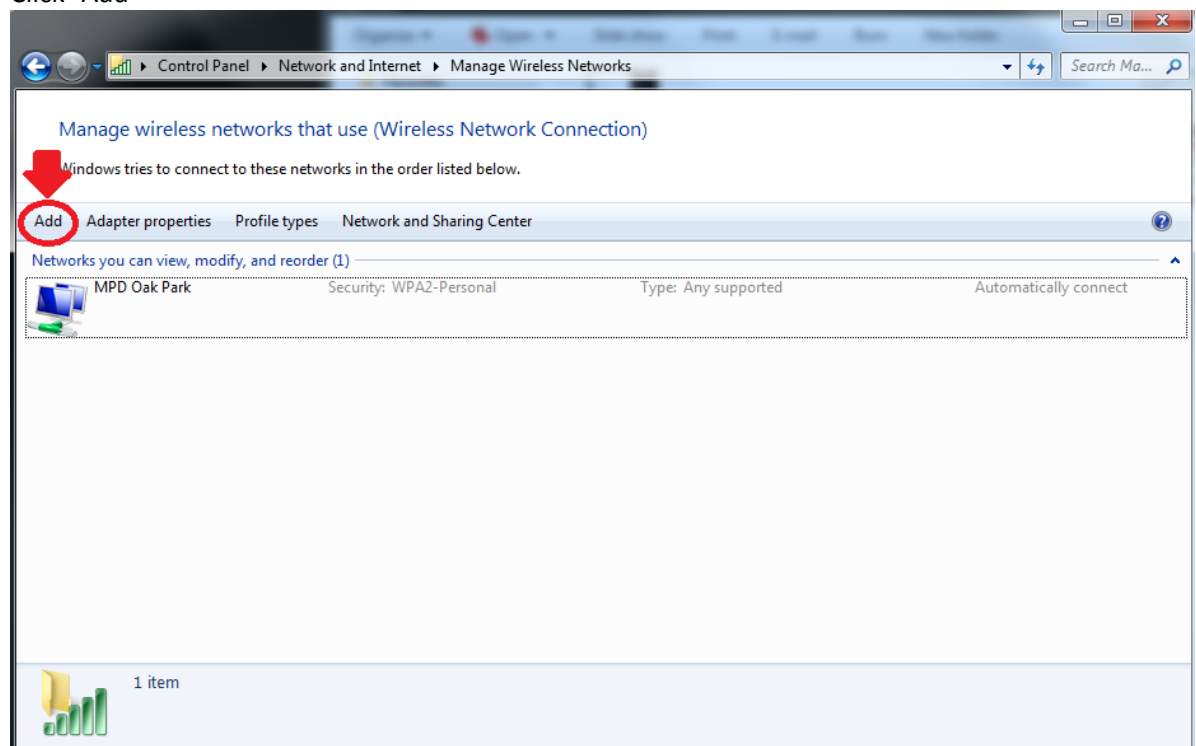


- i. The computer will now have a static IP and it's time to set up the Ad Hoc network.

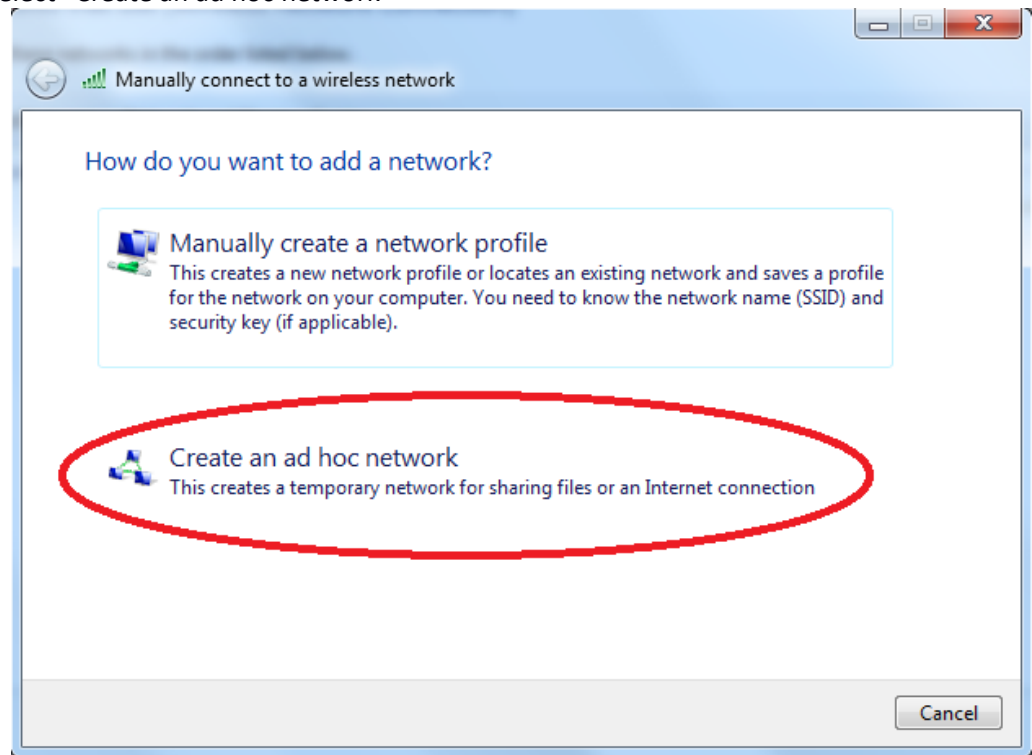
- g. To set up the Ad Hoc network first go to the “Network and Sharing Center.” Do this by following steps *a* and *b*. From here click “Manage wireless networks”



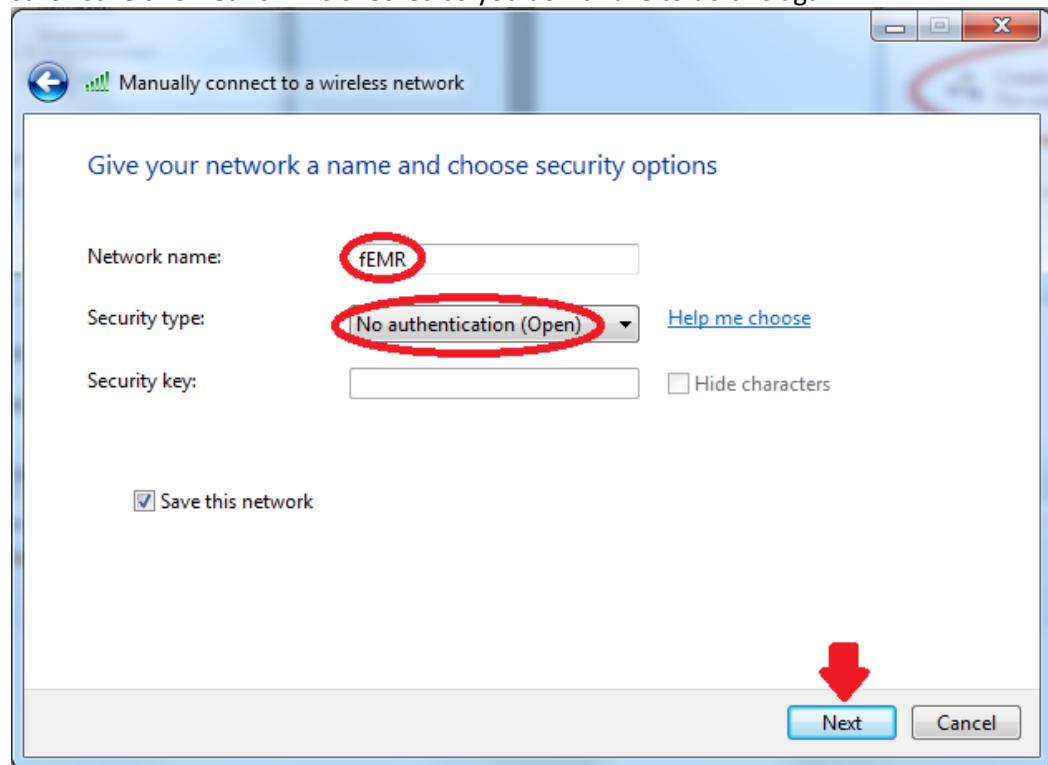
- h. Click “Add”



- i. Select "Create an ad hoc network"



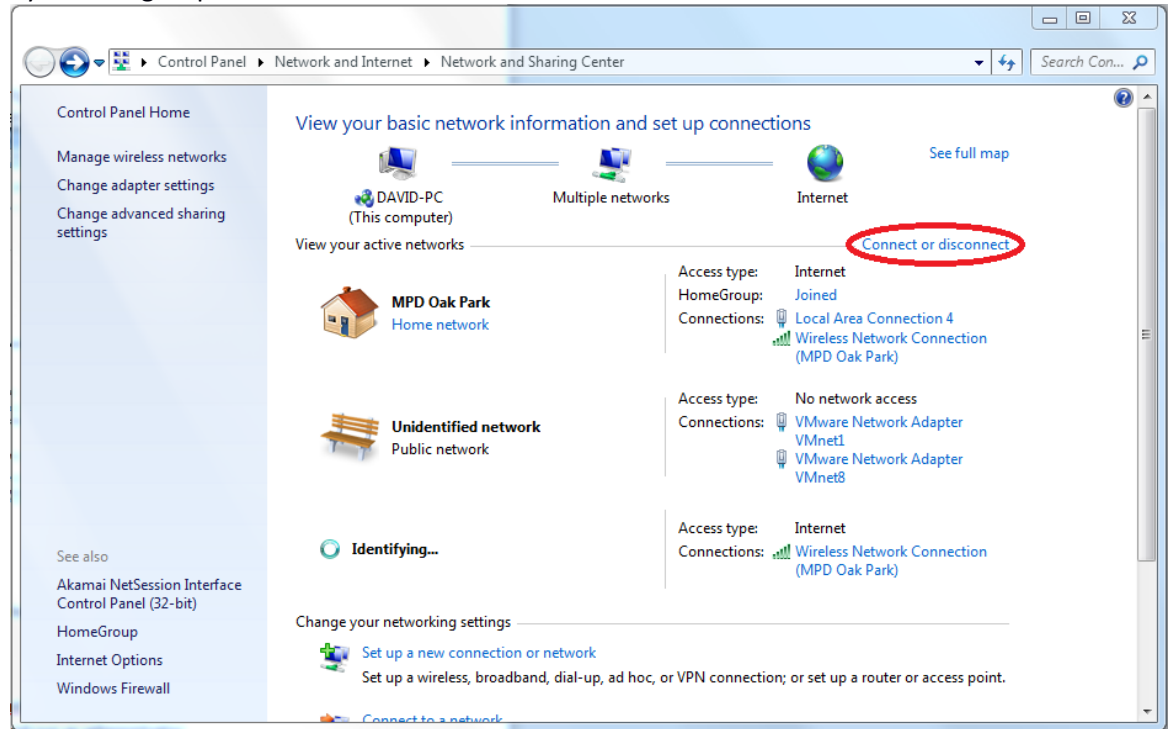
- j. Name the network 'fEMR' and set the security type to "No authentication" and make sure "Save this Network" is checked so you don't have to do this again.



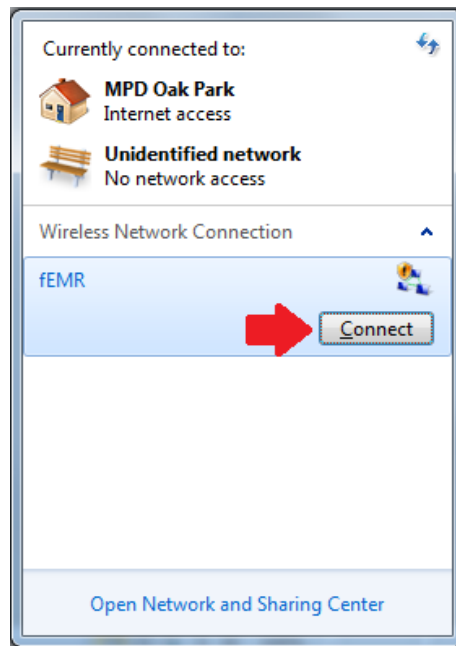
- i. The Ad Hoc network is now set up.

II. Starting the Ad Hoc network

- a. To start up the Ad Hoc network first go to the “Network and Sharing Center.” Do this by following steps *a* and *b*. From here click “Connect or disconnect”



- b. A pop up will show up in the bottom right corner, select “fEMR” and then press the “Connect” button



- c. You're done, now just have another computer connect to the fEMR network!

III. Accessing the Program

- a. Connect to the fEMR network
- b. Open a web browser and in an address bar input the URL '169.254.0.1:9000' and press enter

B. Hosted Network

I. Starting a Hosted Network

- a. Go to the ..\femr\related_documents\AdHoc\ directory
- b. Right click the startAdHoc.bat file and run as administrator

II. Stopping a Hosted Network

- a. Go to the ..\femr\related_documents\AdHoc\ directory
- b. Right click the stopAdHoc.bat file and run as administrator

III. Accessing the Program

- a. Connect to the fEMR network with the password '12345678'
- b. Open a web browser and in an address bar input the URL '169.254.0.1:9000' and press enter
 - i. Note: If you cannot access the program make sure the computer has a static IP, you can do this by following steps *d-f* of the **Creating an Ad Hoc network** instructions above.