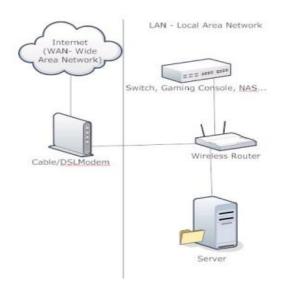
# How to Configure a Wireless Network for a Small Business

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#### How to Configure a Wireless Network for a Small Business

I chose this topic because I have an interest in setting up networks. I feel like that's something in my trade that I like doing. I'm also interested in business, so I mixed the two together and the best topic for me is how to configure a wireless network for a small business. This topic is connected to my sophomore and junior year units of networking. I remember working on labs to solve networking issues.



## How to Configure a Wireless Network for a Small Business

4 methods that helped me obtain knowledge and skills are..

- Networking in Testout (sections 1,3,9,10)
- □ https://youtu.be/2NylR-79lSc
- Mr. Moran
- Mr. Barrett

#### estOut Network Pro

10.3.4 Create a Home Wireless Network

#### Performance

Your Score: 6 of 6 (100%)

Elapsed Time: 8 minutes 43 seconds

#### **Task Summary**

Actions you were required to perform:

- ✓ Place the 802.11b/g/n wireless access point on the computer desk
- ✓ Connect the wireless access point to the existing router in the rack using a Cat5e cable
- ✓ Provide power to the wireless access point
- ✓ On the laptop, slide the wireless switch to turn the integrated wireless network interface card on
- ✓ On the laptop, connect to the TrendNET-BGN wireless network
- ✓ Save the wireless profile on the laptop

#### Explanation

To complete this lab, you must perform the following:



- Place the 802.11b/g/n wireless access point on computer desk. The 802.11b/g/n wireless access point has transmiss
  up to 600 Mbps and is backwards compatible with other wireless standards which use 2.4GHz.
- Connect an Ethernet twisted pair cable to the Ethernet port on the wireless access point and to a free LAN Port on the router.

Print

#### Step 1.

You need to select a wireless network. If you select a network with a fast data transfer rate, the more you'll pay for it. It's common sense.





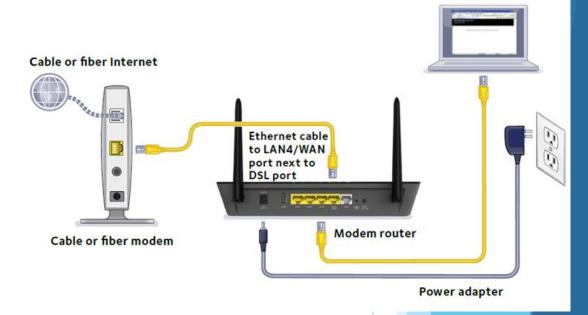
#### Step 2.

- You need to set up your wireless router. The router sends information between the internet and network by using "radio signals". To set this up you need to connect it to the internet. To do this, you'll use a basic ethernet cable and plug it into the router's WAN or internet port.
- Next, you must configure the wireless router gateway and connect the gateway to the router. You do this by turning off the gateway. If by any chance, there's an ethernet cable already plugged into your gateway's LAN port then you must unplug the cable and plug it into the routers' WAN port.
- > Then restart the gateway and wait a couple minutes for it to reboot. After waiting a few minutes, plug in the router's power supply and turn it on.
- Then, log on to the mobile app or desktop to configure the router. Once online, use the info printed on the back of the router for the name and password. After logging in, create your own username and password as well as a Wi-Fi password and set up the settings.



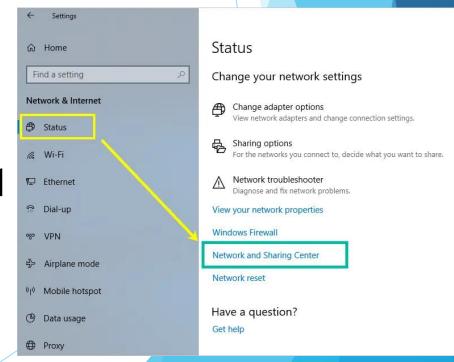
### Step 3.

Set up the modem. The modem needs to be plugged into an outlet and an end of the cable needs to be placed into the WAN port.



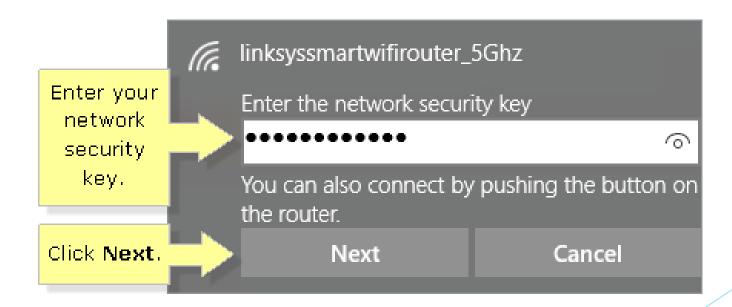
#### Step 4.

Connect the modem to the internet. To do this, go on desktop and click the network logo on the bottom right corner of the screen. Once clicked, click on "network and sharing center". Then click, set up a new connection. After this, click on connect to the internet and click next.



#### Step 5.

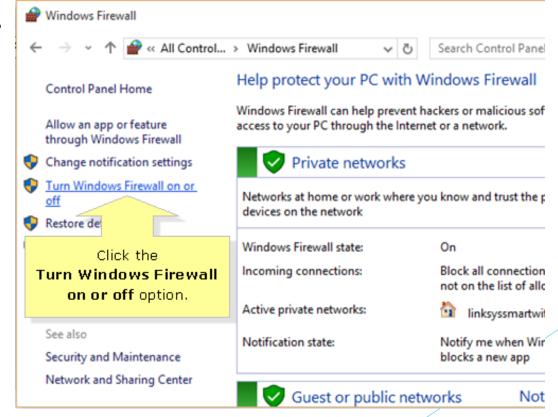
Set up a security key for the network. You have two options when doing this.. You can push the button on the back of the router and wait while it automatically connects the device to the network, or you can enter the security key yourself.



#### Step 6.

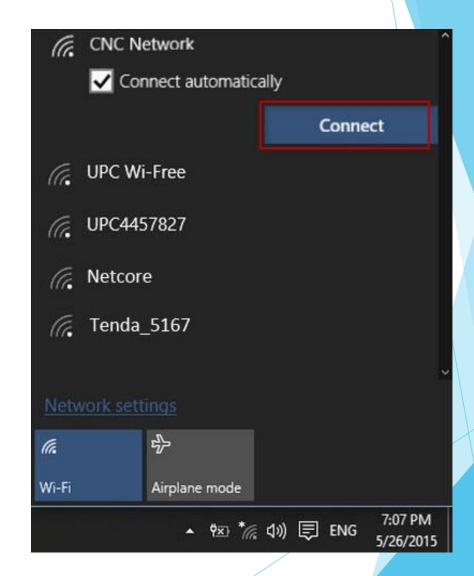
You must set up a firewall! On a desktop, click settings, click windows firewall, and click turn on windows firewall. Under that, click on any of the protections that you may want or the ones that are

convenient to you.



#### Step 7.

Connect any other devices you want to the network. You must click settings, the network logo, select the wireless network and connect it by entering your password.



## **Anticipated Questions**

Q: Is it mandatory to add a firewall?

A: For a business, it's mandatory. This way everything is handled safely.

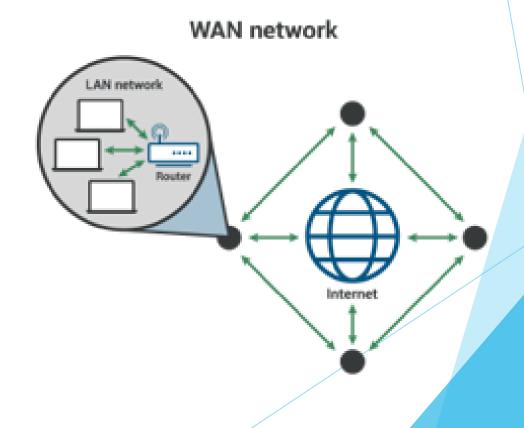
It's effective 24/7.

Q: What's LAN?

A: It stands for Local Area Network

Q: What's WAN?

A: It stands for Wide Area Network



## My Reflective Conclusion

Skills that I've mastered because of this project are configuring a wireless network itself and knowing the difference between the LAN and WAN ports.



I need to work more on choosing the best firewall protections.

## My Reflective Conclusion

My research on this project has enhanced my learning of the IST trade because it's hands on and I learn better that way. It gives me the opportunity to correct my

