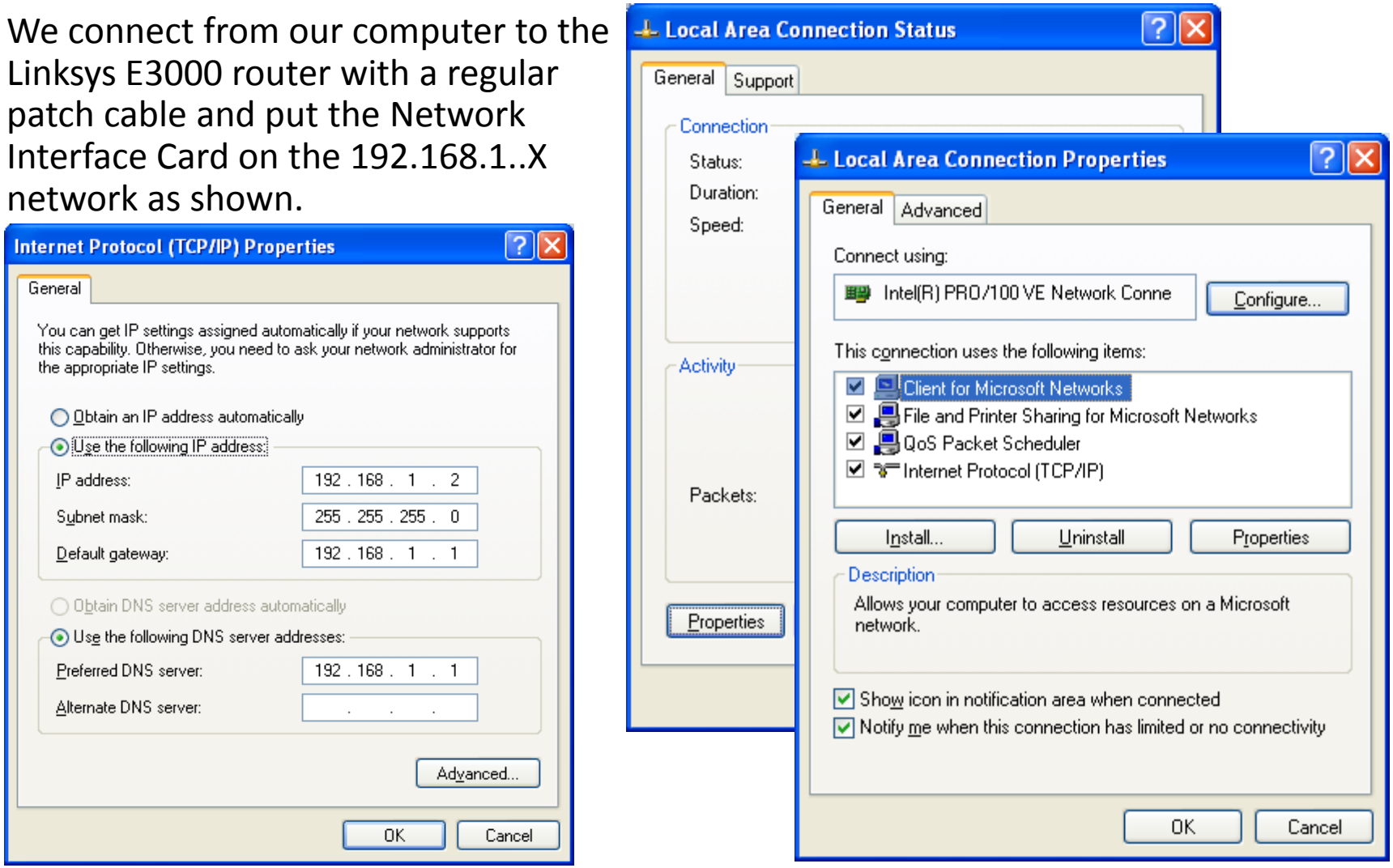
Programming a Linksys E3000 Router

September 6, 2010

Joining the E3000 Network

We connect from our computer to the Linksys E3000 router with a regular patch cable and put the Network Interface Card on the 192.168.1..X network as shown.

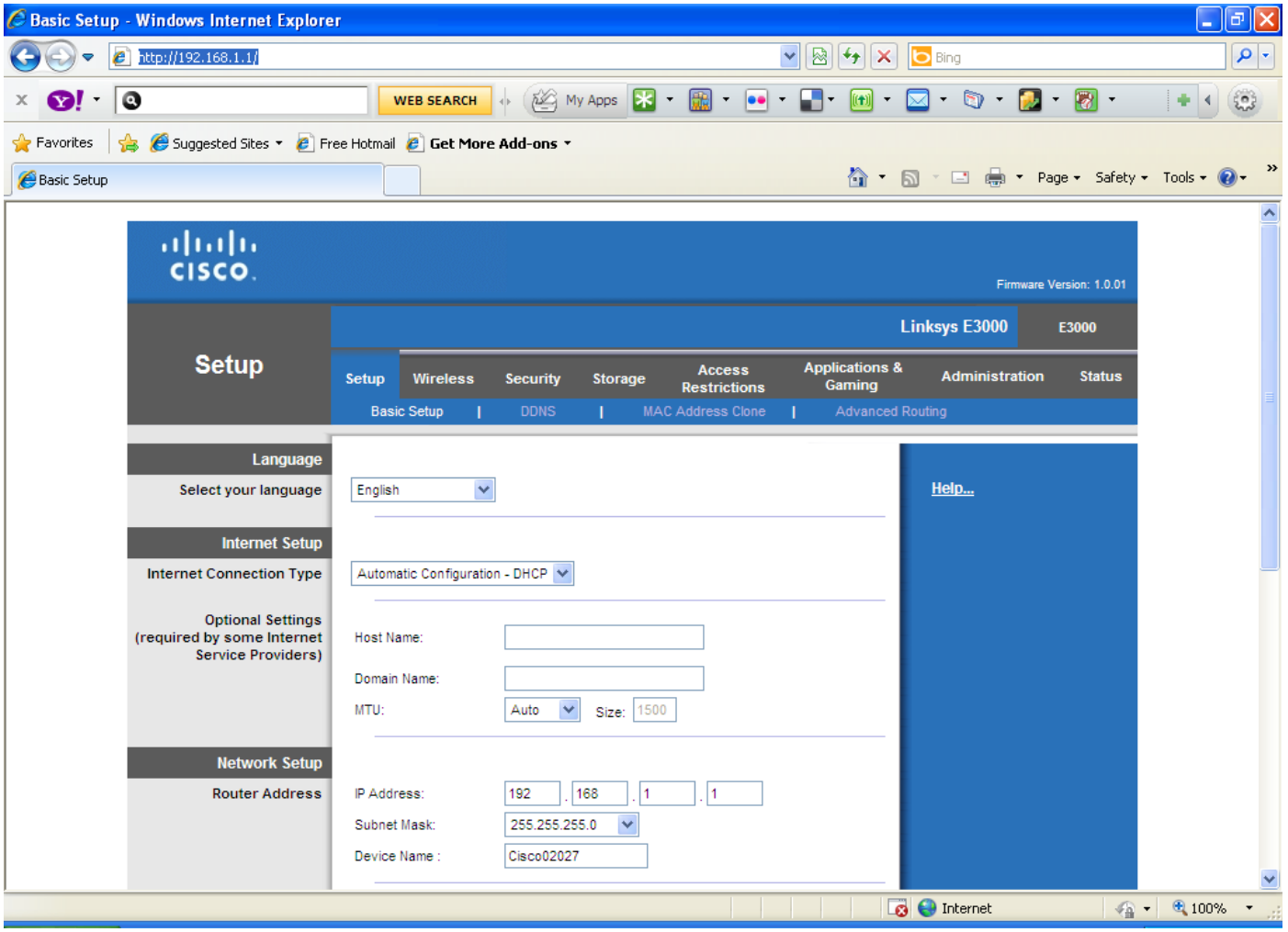


Username and Password

We open our network browser, and type 192.168.1.1 to access the Linksys E3000 router. A connect to 192.168.1.1 window will appear and to gain admittance to the router, the Linksys manual has a blank username and the default password is *admin.*

The Cisco Router Setup Screen

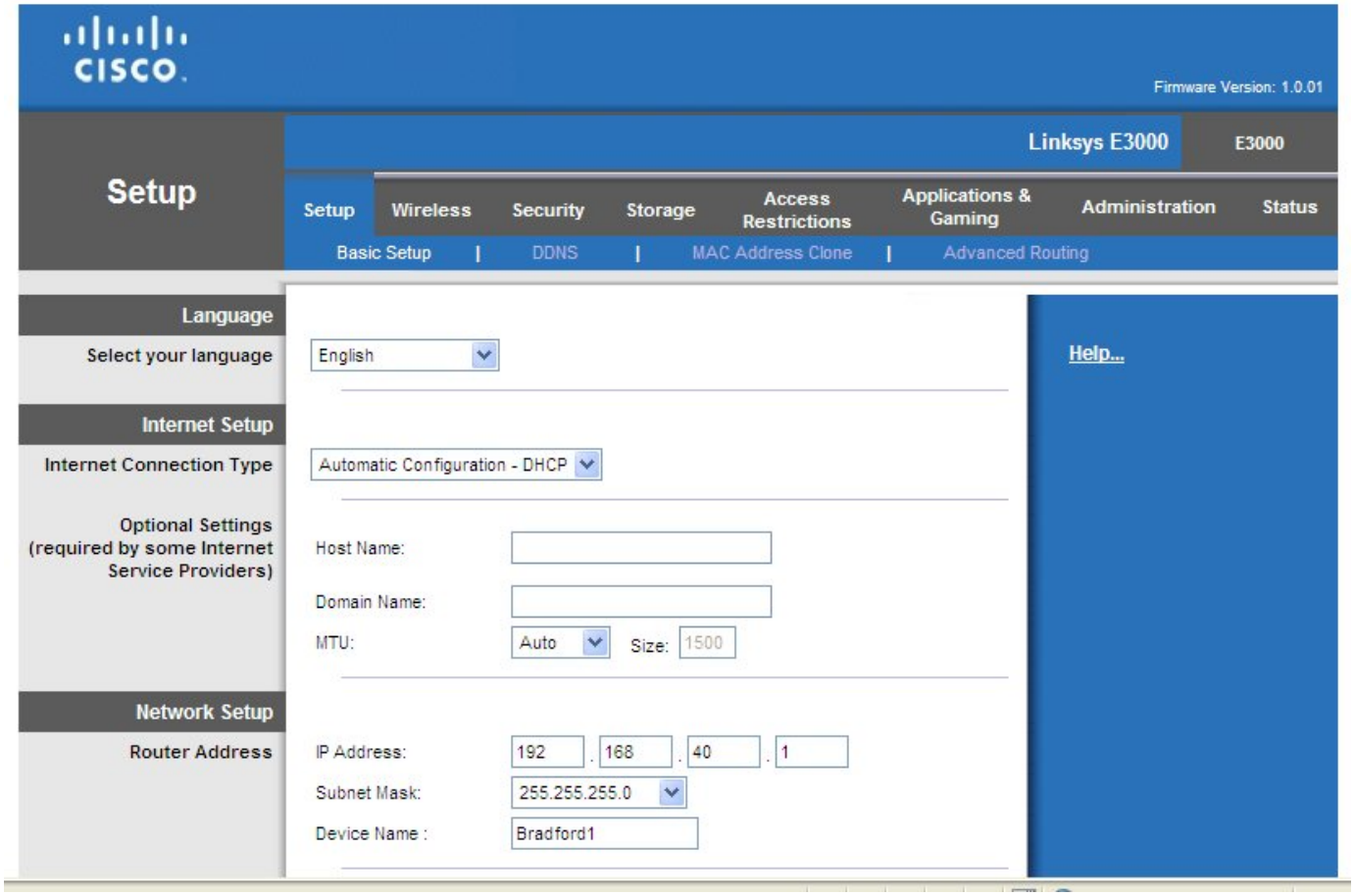
To program the E3000 router, we begin with the Basic Setup window.



Change the Router's Address

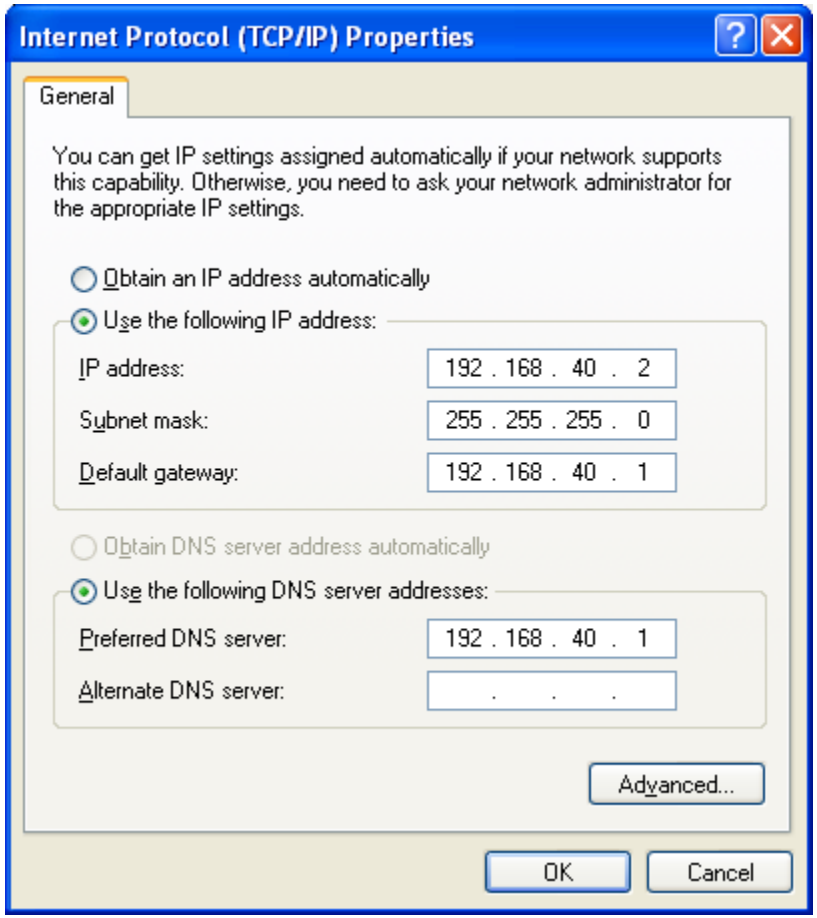
We next will place the router on the programmed network address. We will use 192.168.40.1. The subnet mask is 255.255.255.0.

We call the device Bradford1. We go to the bottom of the page and save the setting.



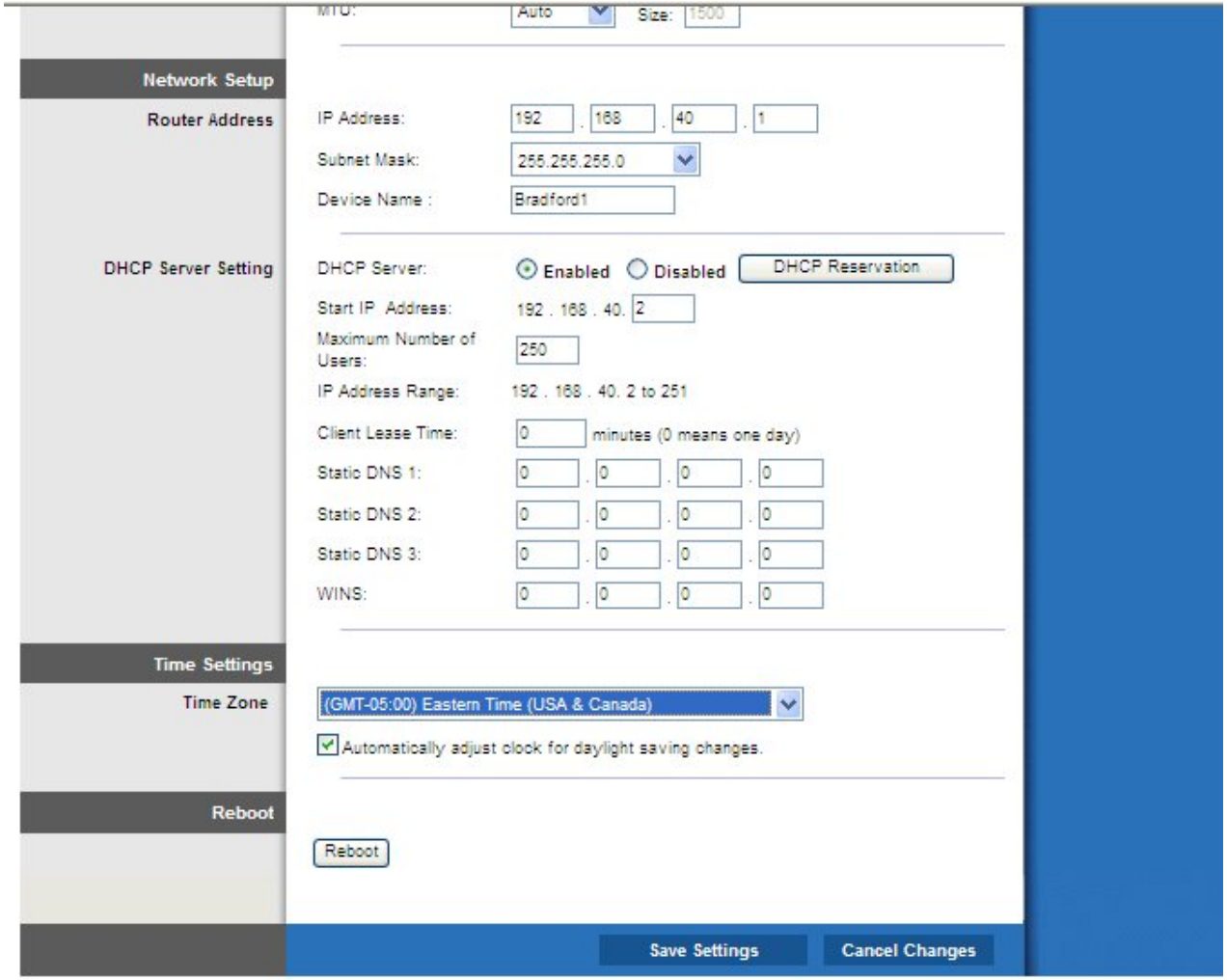
Change the Computer's IP Address

To rejoin the router and continue to program the unit, we now change our computer's IP address to 192.168.40.2 and make our gateway address to the router as 192.168.40.1.



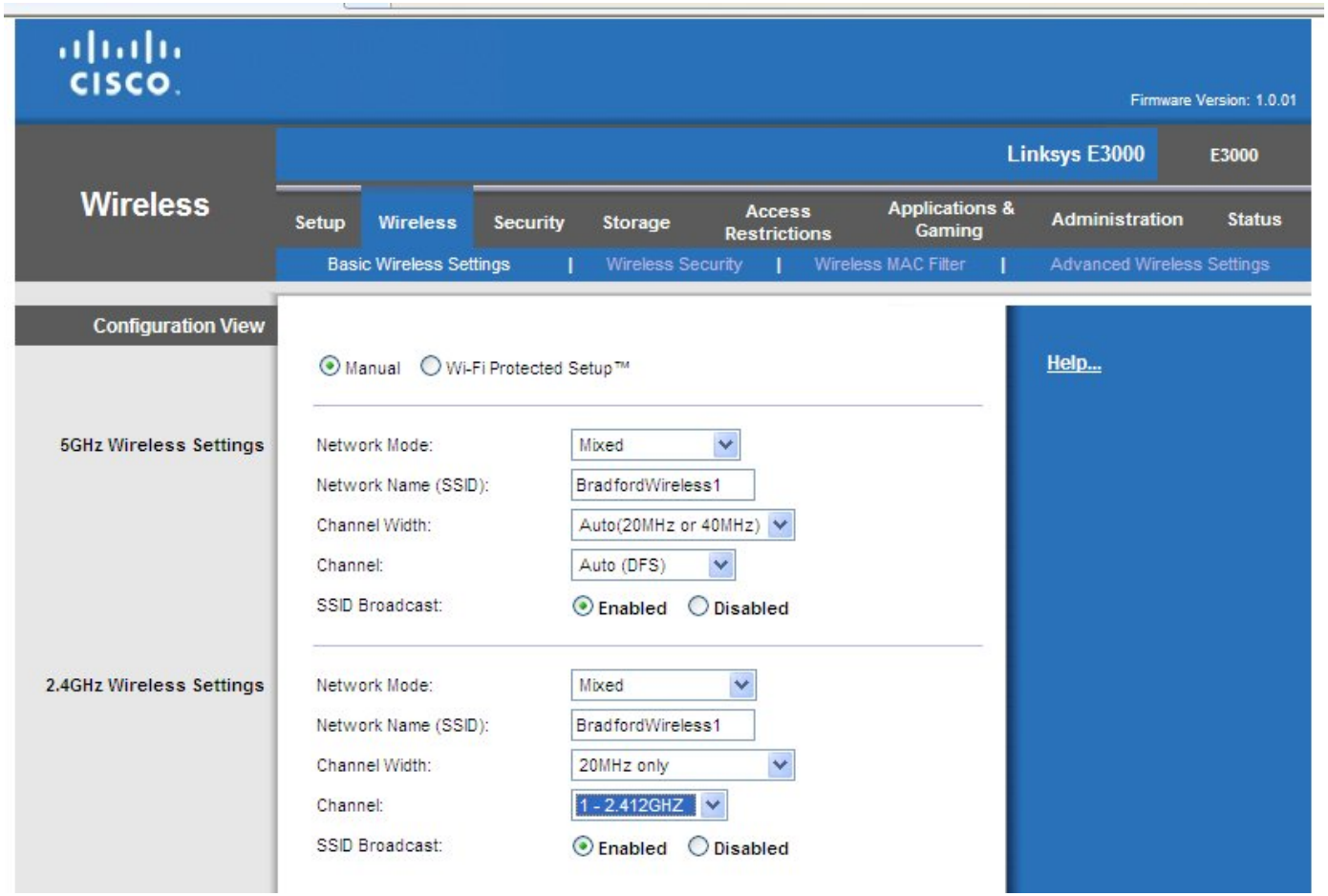
Setting the DHCP Settings

Our router will distribute network IP addresses to client computers using Dynamic Configuration Control Protocol (DHCP). We will make 250 addresses available. We will change the router to the Eastern time zone. We will save our settings.



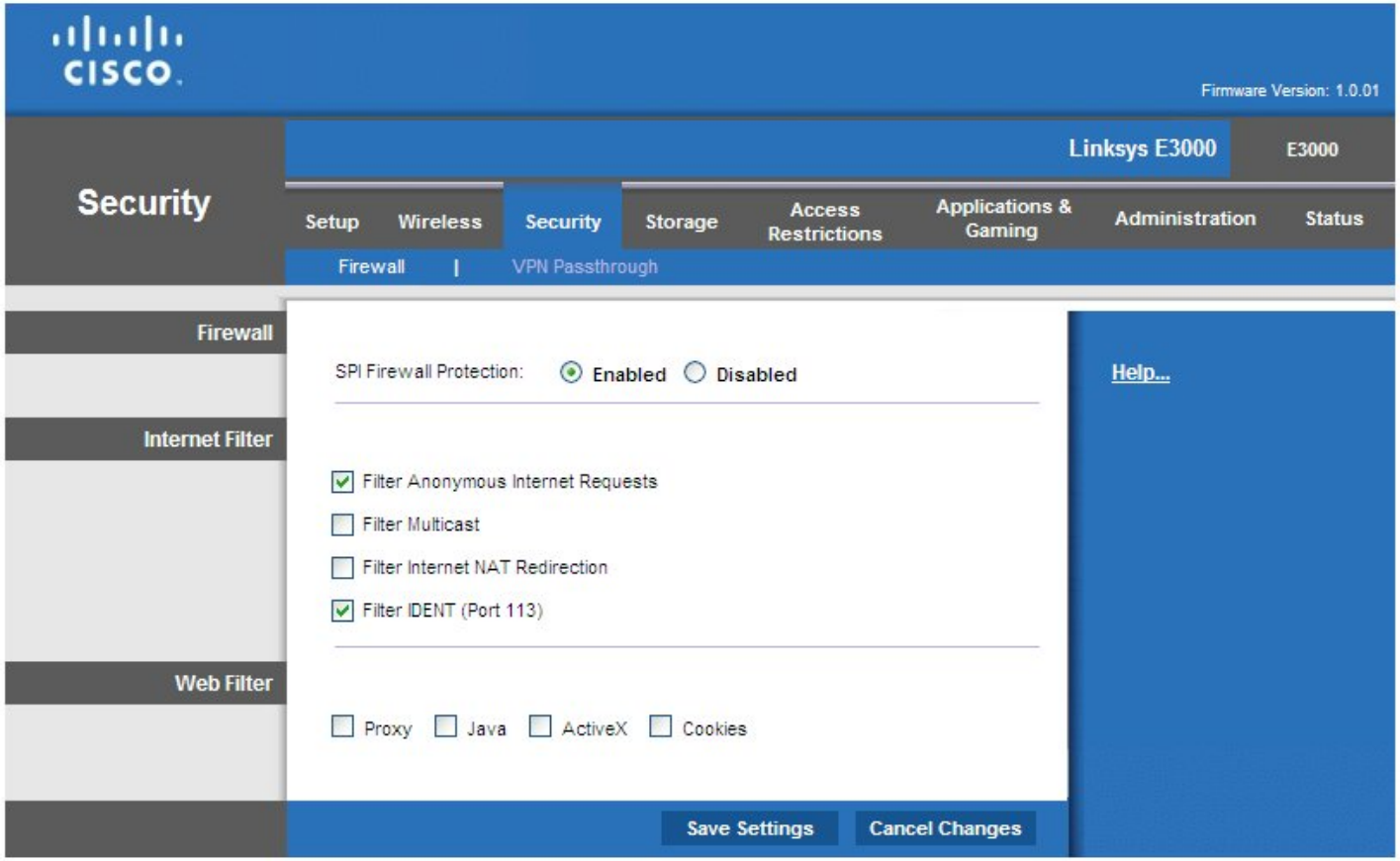
Set the Wireless Settings

The Linksys E3000 router can run 2.4 and 5 GHz at the same time. We will set them both as mixed mode, BradfordWireless1 for the SSID, and both channels will broadcast. We will save the settings at the bottom of the page.



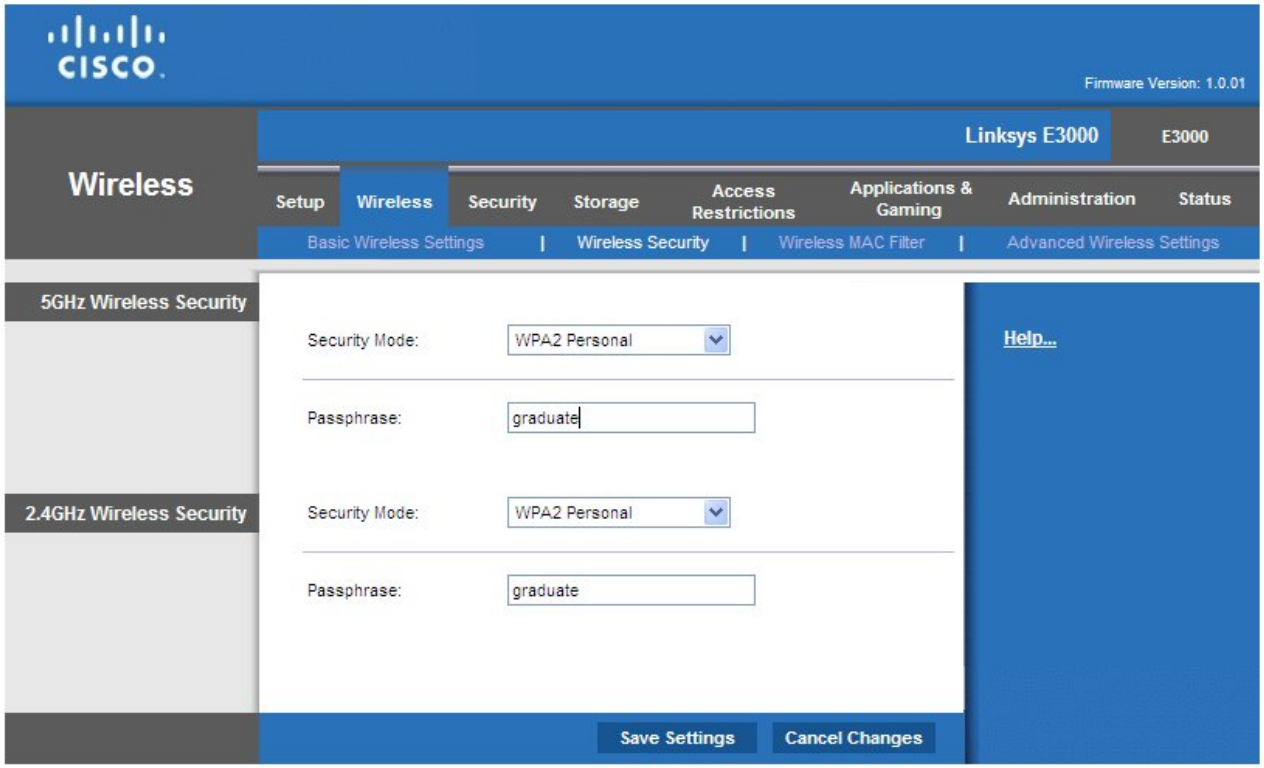
Security Settings

We will leave the security settings alone.



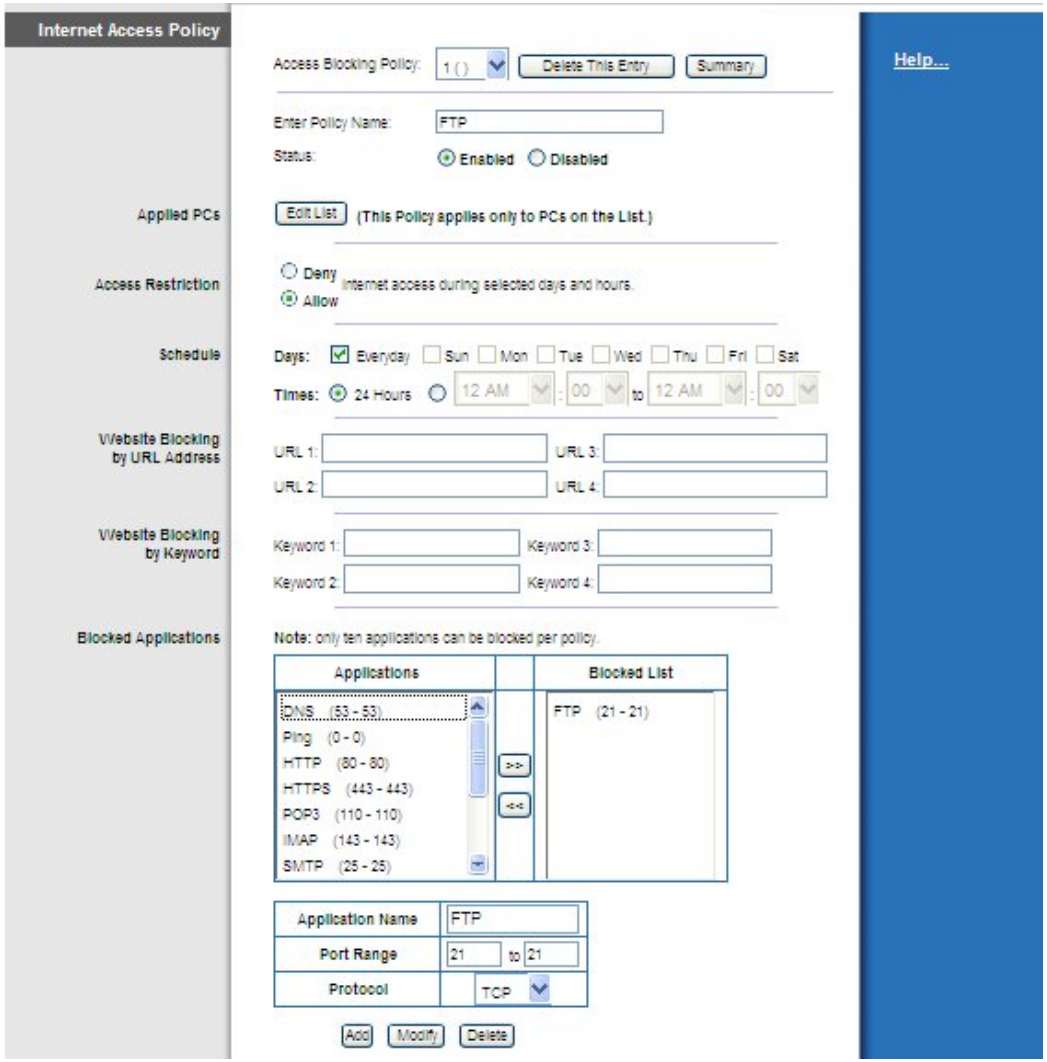
Wireless Security Settings

We will make the security mode for both the 2.4 and 5 GHz signal WPA2 Personal with a password called “graduate”. We then save the settings.



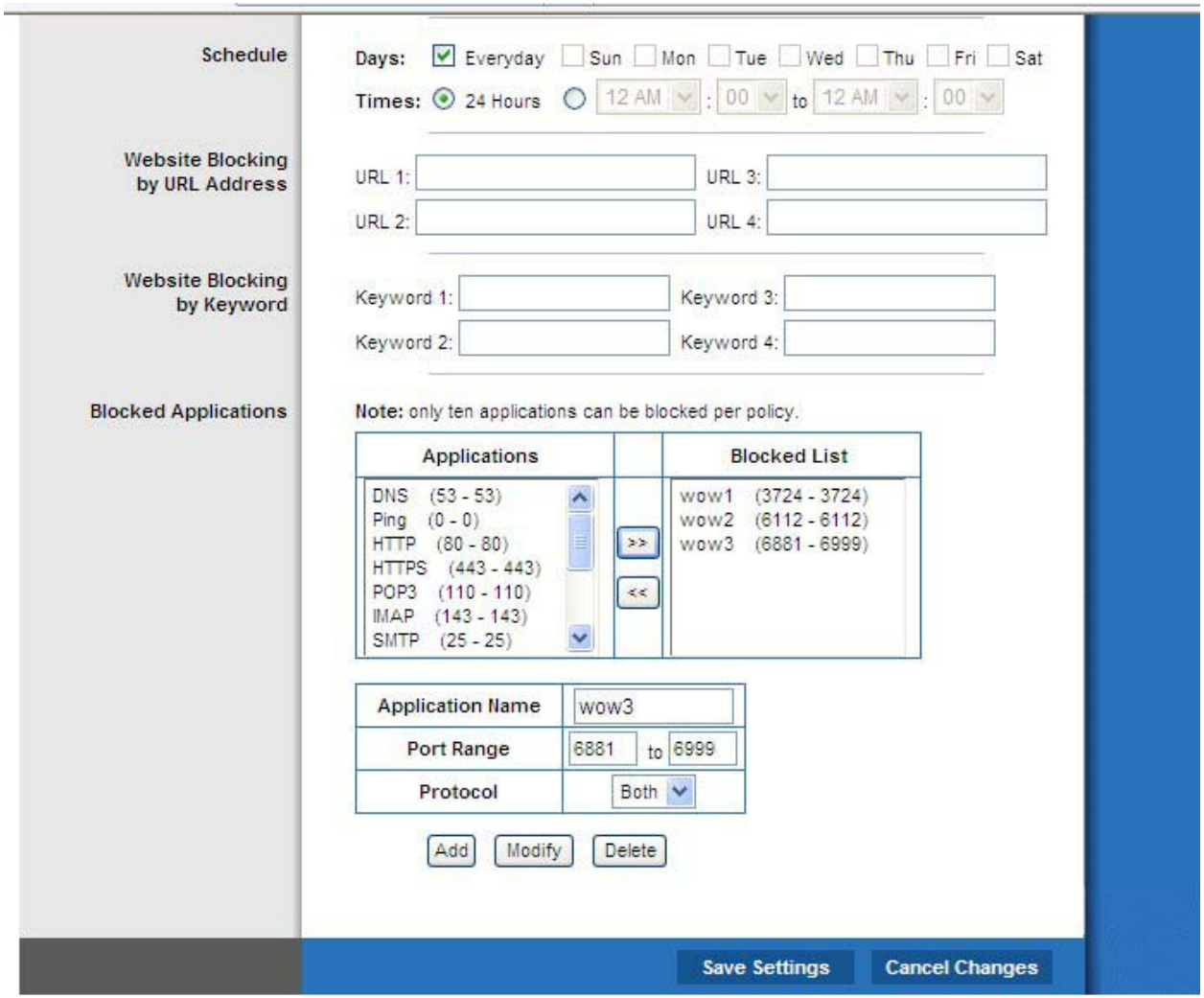
Network Blocking

We will go Access Restriction on the Menu bar and on that page we will create a policy named FTP. In the blocked applications, we choose FTP (port 21) and using the right arrow send it to the blocked list. We save the settings.



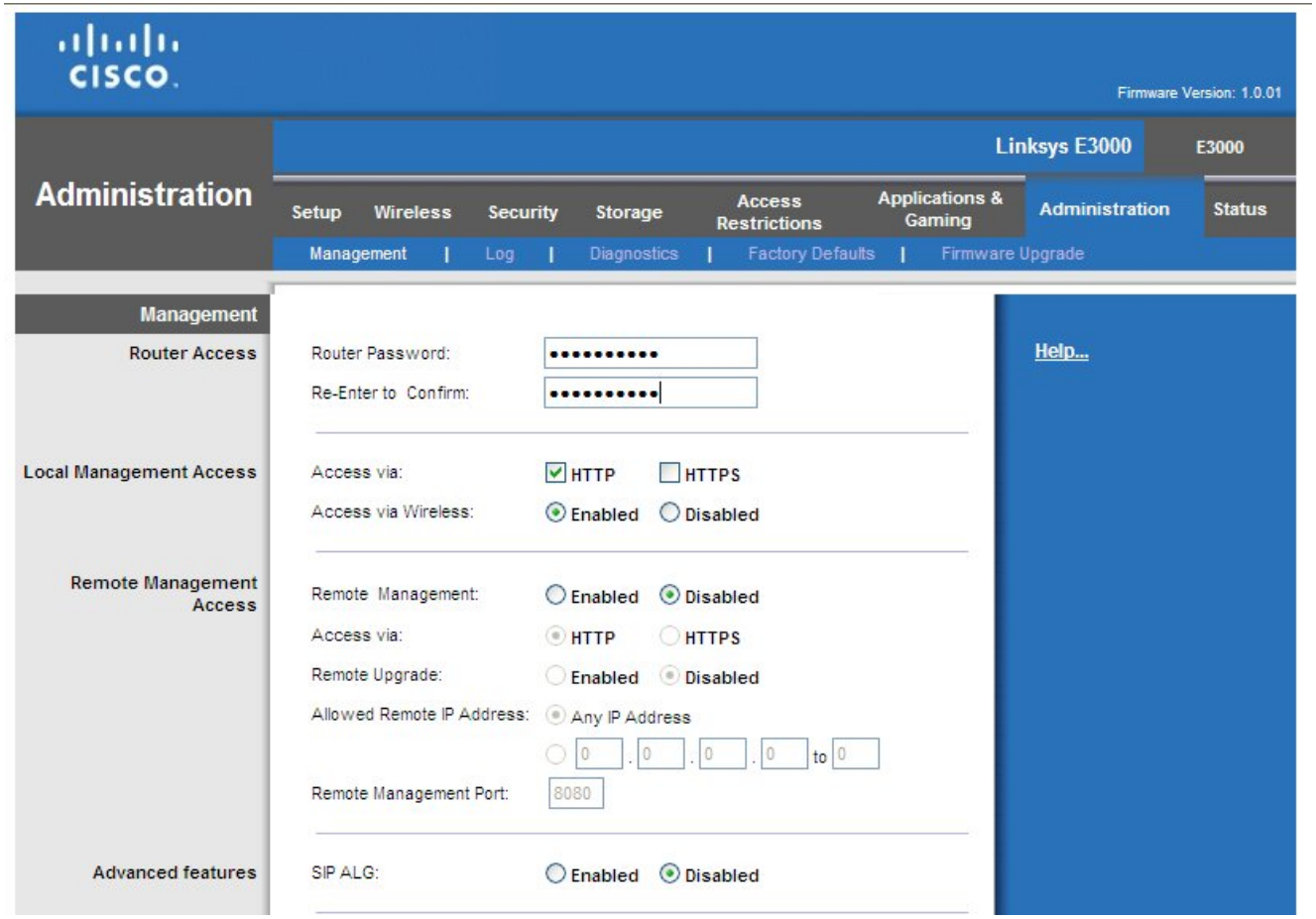
Blocking WOW

We will create another policy to block a game called World of Warcraft. We create three application names, WOW1, WOW2 and WOW3. In the first, we make the port range 3724 to 3724. In the second, we the port range is 6112to 6112. In the third, we make the port range 6881 to 6999. All three applications are move to the blocked list and we save the settings.



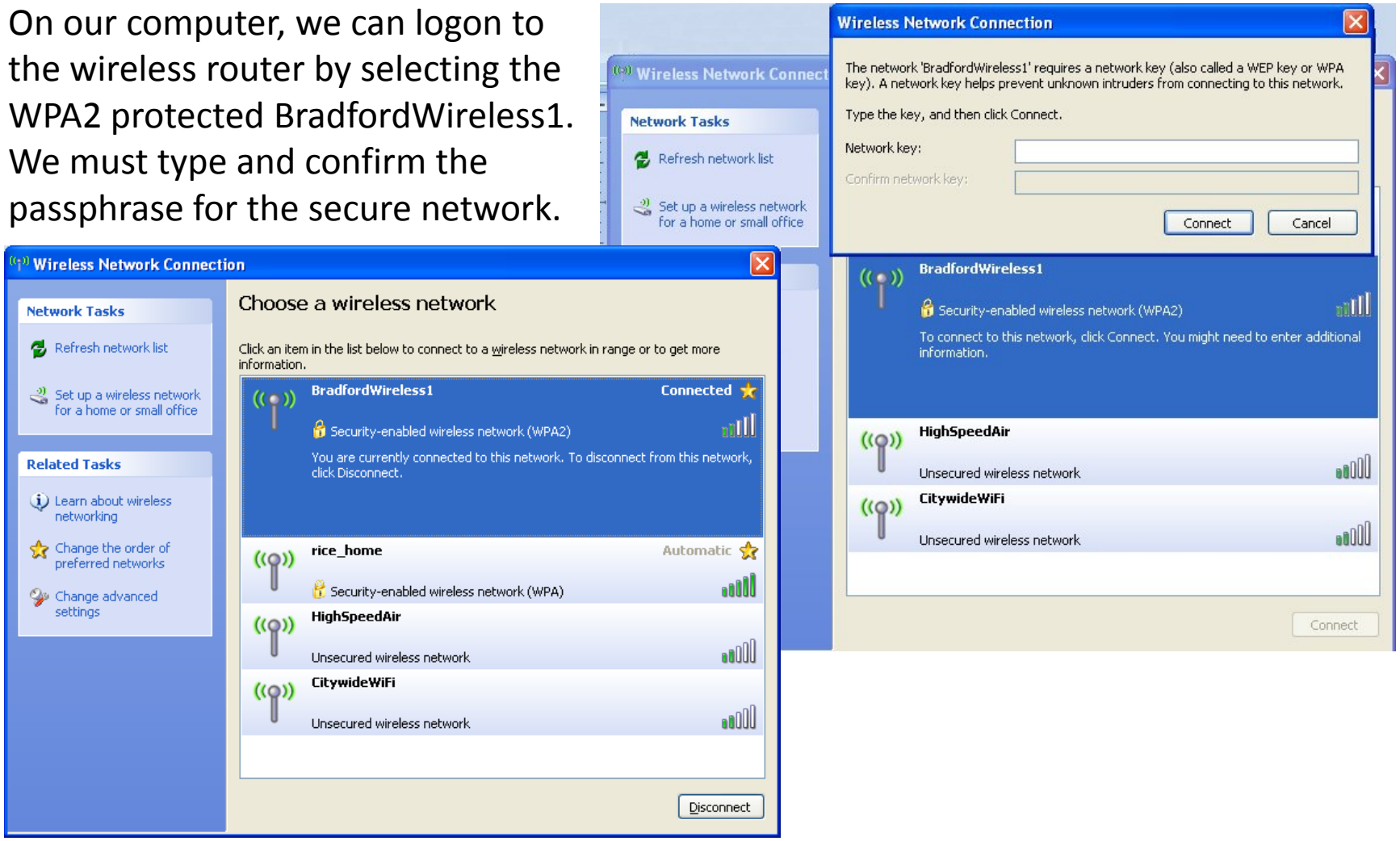
Administrative Password

To protect our router's settings from improper changes, we add a smart password that has upper and lower case letters, numbers and special characters. Only network administrators will know the password. We save the settings at the bottom of the page.



Logon to the Network

On our computer, we can logon to the wireless router by selecting the WPA2 protected BradfordWireless1. We must type and confirm the passphrase for the secure network.



Accessing the Wi-Fi Network

Once, we connect to the wireless router, we can browse the Internet at our leisure.