



Republic of the Philippines  
**Department of Education**  
National Capital Region  
Schools Division Office – Muntinlupa City

**SPECIAL PROGRAM IN TECHNICAL VOCATIONAL EDUCATION (SPTVE)  
COMPUTER SYSTEMS SERVICING 9 Q3-W6**

**I. Topic: Assigning Network Address**

**II. Objectives:**

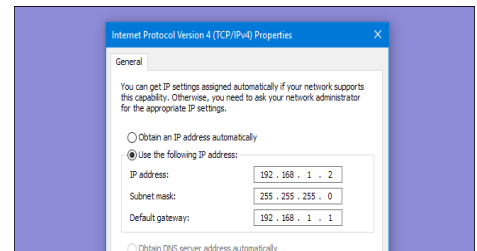
1. compare static and automatic network address;
2. recognize the procedure of assigning static address and;
3. appreciate the importance of network address.

**III. Brief Introduction of the Lesson**

Assign Static IP Addresses to Physical Network Adapters

**Static vs. Automatic IP Addressing**

Right now, the IP addresses for your PCs and other devices are probably assigned automatically by your router using a protocol known as Dynamic Host Configuration Protocol (DHCP). It's a handy way for devices to connect to your network more easily, because you don't have to configure IP addressing for each new device yourself. The downside to automatic addressing is that it's possible for a device's IP address to change from time to time.



**Assign Static IP Addresses Via Your Router**

While this article covers assigning static IP addresses to PCs within Windows itself, there is another way to go about it. Many routers allow you to assign a pool of IP addresses that are handed out to specific devices (based on the device's physical, or MAC address). This method offers a couple of significant advantages:

- IP addresses are still managed by the router, meaning that you won't have to make (and keep up with) changes on each individual device.
- It's easier to assign addresses within the same IP address pool your router uses.

With all that in mind, though, let's take a look at how to assign static IP addresses within Windows XP, Vista, 7, 8, and 10.

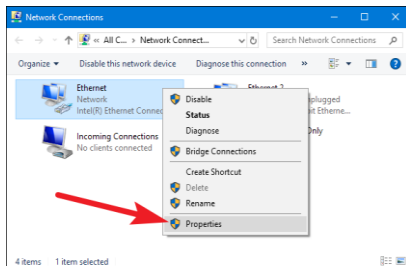
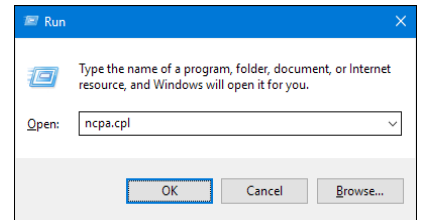
**Set a Static IP Address in Windows 7, 8, or 10**



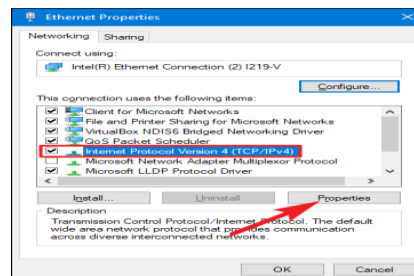


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To change the computer's IP address in Windows, you'll need to open the "Network Connections" window. Hit Windows+R, type "ncpa.cpl" into the Run box, and then hit Enter.

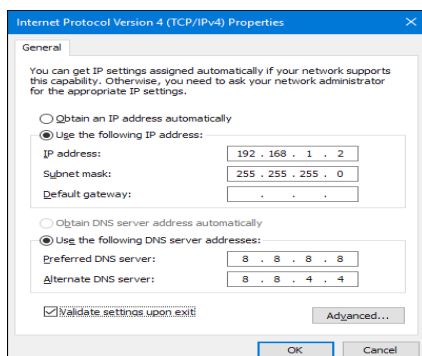


In the "Network Connections" window, right-click the adapter for which you want to set a static IP address, and then select the "Properties" command.



In the properties window for the Protocol Version 4 (TCP/IPv4) "Properties" button.

adapter, select "Internet and then click the

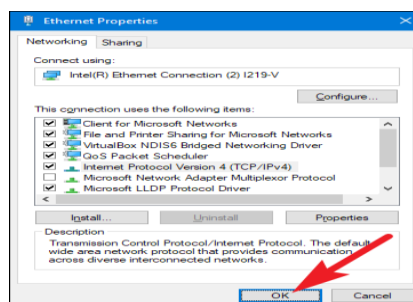


Select the "Use the following IP address" option, and then type in the IP address, subnet mask, and default gateway that corresponds with your network setup.

Next, type in your preferred and alternate DNS server addresses. Finally, select the "Validate settings upon exit" option so that Windows immediately checks your new IP address and corresponding information to ensure that it works. When you're ready, click the "OK" button.

And then close out of the properties window.

Windows automatically runs network diagnostics to verify that the connection is good. If there are problems, Windows will give you the option of troubleshooting wizard. However, if the wizard likely won't do you too much good. It's better to check that your settings are valid and try again.



network adapter's

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#### IV. Activities:

**Activity 1.** *Directions:* Explain the following technical terms. Write your answer on the space provided for.

Internet Protocol \_\_\_\_\_

Internet Protocol version 4 (IPv4) \_\_\_\_\_





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Internet Protocol version 6 \_\_\_\_\_

Dynamic Host Configuration Protocol \_\_\_\_\_

**Activity 2.** *Directions:* Arrange the steps of assigning network address in chronological order by using numbers 1 – 6. Write your answer on the space provided for.

\_\_\_\_ Windows automatically runs network diagnostics to verify that the connection is good.

\_\_\_\_ Select the “Use the following IP address” option, and then type in the IP address, subnet mask, and default gateway that corresponds with your network setup.

\_\_\_\_ Next, type in your preferred and alternate DNS server addresses. When you’re ready, click the “OK” button.

\_\_\_\_ In the properties window for the adapter, select “Internet Protocol Version 4 (TCP/IPv4)” and then click the “Properties” button.

\_\_\_\_ In the “Network Connections” window, right-click the adapter for which you want to set a static IP address, and then select the “Properties” command

\_\_\_\_ To change the computer’s IP address in Windows, you’ll need to open the “Network Connections” window. Hit Windows + R, type “ncpa.cpl” into the Run box, and then hit Enter.

**Activity 3.** *Directions:* Explain the difference of Automatic IP Address and Static IP Address.

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**V. Assessment:**





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*Directions:* Encircle only the letter of the correct answer.

1. Automatically provides computers with an IP address.  
A. Static configuration                      C. DNS  
B. Dynamic configuration                  D. MAC Address
2. Manually configure computers with an IP address.  
A. Static configuration                      C. DNS  
B. Dynamic configuration                  D. MAC Address
3. DHCP is abbreviation of  
A. Dynamic Host Connection Private  
B. Domestic Host Configuration Protocol  
C. Dynamic Host Configuration Protocol  
D. Dynamic Hazard Configuration Protocol
4. One of the following is NOT required to configure at static address assignment:  
A. IP address                                  C. Default gateway  
B. Subnet mask                                D. Network address
5. What does IP stand for?  
A. Internet Program                          C. Internal Program  
B. Internet Protocol                          D. Internet Prohibited

**VI. Reflection:**

Why do you think that following protocol in network addressing is important?

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**References:**

1. <https://www.howtogeek.com/howto/19249/how-to-assign-a-static-ip-address-in-xp-vista-or-windows-7/>  
Date retrieved: January 7, 2021
2. <https://quizizz.com/admin/quiz/56de9b6503b9a4dc7bff2484/ip-addressing>  
Date retrieved: January 7, 2021



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