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Part 1

1. What is a port and how is it used with an IP address?

A port is a unique number and a logical connection used to exchange information. The port and IP address work together to exchange data on a network.

1. Port 443 is the HTTPS port. Run netstat on your computer. Do you see port 443 used? Take a screen print of your netstat results.

Yes, port 443 is being used on my computer.

A screenshot of a computer screen

Description automatically generated

1. Explain the difference between the local and foreign address

The local address has the IP address of the device while the foreign address has the IP address of the domain it is sending data to.

Part 2

1. Run IPCONFIG on your computer. Is your IP address assigned by DHCP? If so how do you know? Include a screen print of your IPCONFIG command results.

It is assigned by DHCP because it starts with the same 192.168.3 as my router’s IP address.

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Description automatically generated

1. Go to the website [www.whatismyip.com](http://www.whatismyip.com/). Does your public IP address listed match your IP address in IPCONFIG? IF not why?

The public IP address is different than the one in IPcofig, because the Ipconfig is a local IP address given by my router, while the public one is the one is given by my ISP.

1. Run IPCONFIG -all. Is your default gateway IP address and DHCP Server IP address the same? If so, what does this mean?

Yes, they are the same because the gateway IP address of the router is the same router that DHCP is running on.

1. What is a DNS resolver? How does a DNS resolver and a DNS server work together? What is DNS spoofing?

A DNS resolves domain names to IP addresses and a DNS resolver keeps a history of the domain names and their IP addresses that you visited. DNS spoofing is when your DNS cache is altered and you are redirected to fraudulent websites.

Part 3

1. What is the PID number for the program listening on port 80 on your computer?

The PID number for the program listening on port 80 on my computer is 7420.

1. What is the .exe that is associated with the PID?

The .exe associated with the PID 7420 is svchost.exe.

1. What is the description of the .exe?  
   The description of the .exe is that it is Host Process for Windows Services.

Sources:

Network Ports Explained, PowerCert Animated Videos, July 2022

IPCONFIG Explained - Flush DNS Cache, PowerCert Animated Videos, May 2021

(Bellevue University, Patrick Nieland, 2023).