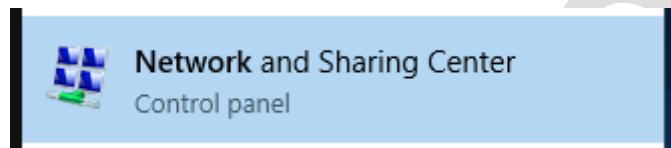




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In this lecture we are going to join our newly created Windows 10 VM to our itflee.com domain. The first thing we will need to do is manually configure our TCP/IP settings so we can communicate with our DC then we can rename the computer and join it to our Domain. We will also switch over to our Domain Controller and see where our new computer was automatically placed in Active Directory. In order to complete this lecture, we will need our Domain Controller running so we can join our new Windows 10 VM to the domain.

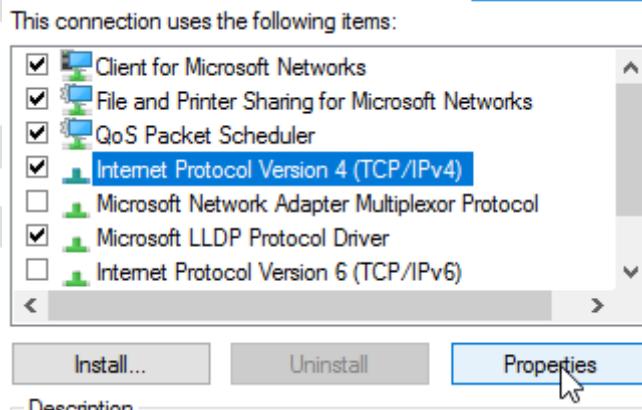
Open your Windows 10 VM and if you still have the “VirtualBox Guest Additions CD Image” mounted we can unmount it by selecting **Devices > Optical Drives > Remove Disk from optical drive**. Now we need to log into the VM. Press right-crtl+del and type in your user credentials that you created when you installed the OS. Once you are logged in and Windows has fully loaded, click the Start button and search for “Network”. Click **Network and Sharing Center** when it appears.



Select the **Ethernet 2** text on the right hand side of the screen.

Unidentified network
Public network
Access type: No network access
Connections: **Ethernet 2**

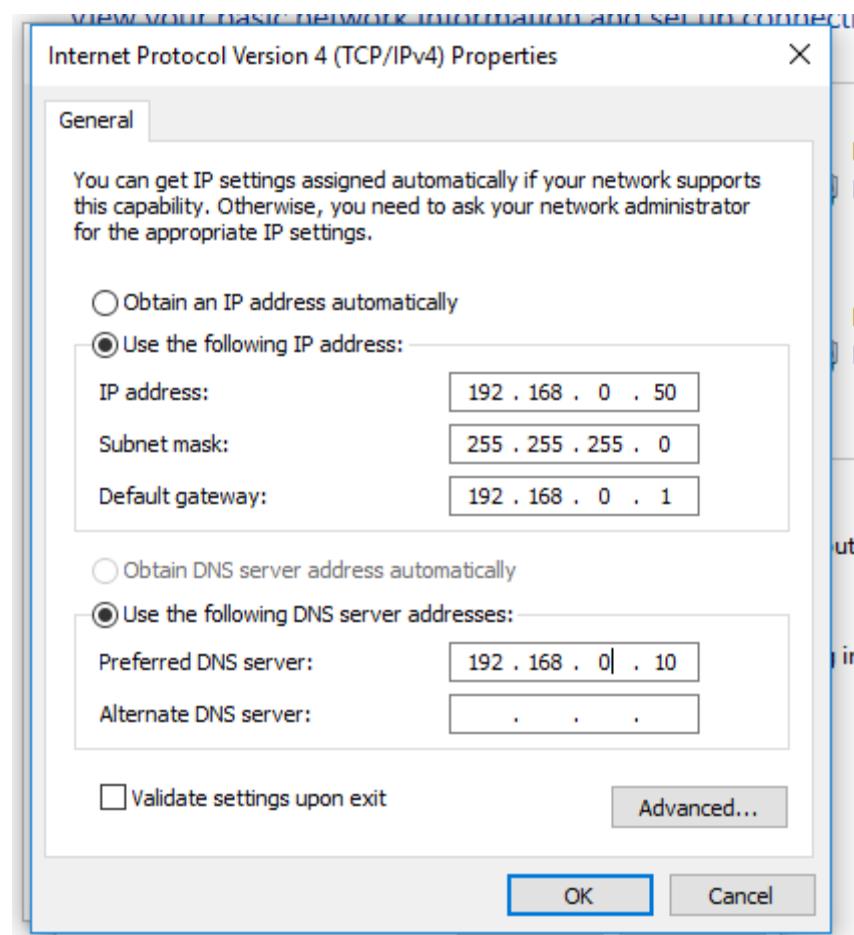
Choose the **Properties** button. Uncheck **IPv6** since we are not going to be using this internet protocol. Select **IPv4** and choose **Properties**.



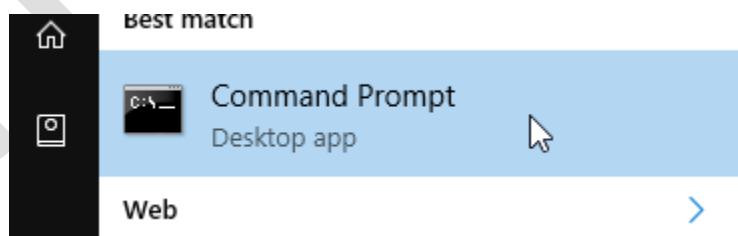
Select the **Use the following IP address** checkbox and for the **IP address** enter 192.168.0.50 - we could use any unused IP address ending with 2 – 254 but I am going to use .50. Press the tab key and the **Subnet mask** will be automatically populated as 255.255.255.0 which is correct. Now under the **Default gateway** enter 192.168.0.1 which is the same address as the host only network we created in VirtualBox. For the **Preferred DNS server** we want to enter the IP of our DC which is 192.168.0.10.



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Click **OK** and close out of the **IPv4 Properties** and **Ethernet 2 Status** windows. Now we want to verify that we can communicate with our DC by attempting to ping it. A ping command sends a message to a target computer and asks for a response. If we get a response, we know that we can communicate with the target computer. To ping a computer we need to open Command Prompt. Press the start button and type “CMD” in the search box. You will see Command Prompt show up in the results.



Start Command Prompt and enter the command ping “192.168.0.10”.

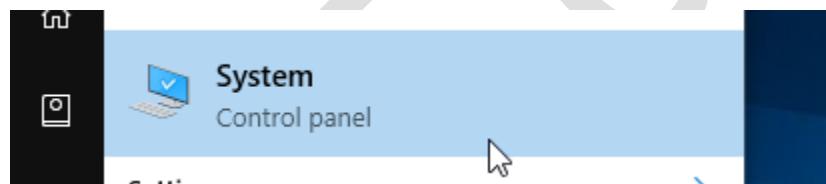


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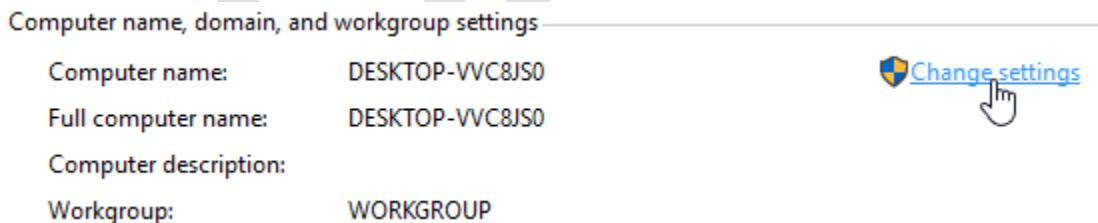
```
Command Prompt - ping 192.168.0.10
C:\Users\paul.hill>ping 192.168.0.10

Pinging 192.168.0.10 with 32 bytes of data:
Reply from 192.168.0.10: bytes=32 time<1ms TTL=128
Reply from 192.168.0.10: bytes=32 time<1ms TTL=128
Reply from 192.168.0.10: bytes=32 time<1ms TTL=128
```

We can see that we are getting responses back from our DC. Now that we know we are able to communicate with the DC we need to rename this computer and join it to our Windows Domain. Press the Windows button again and search for “System”. Click the Control Panel System that appears in the search results.



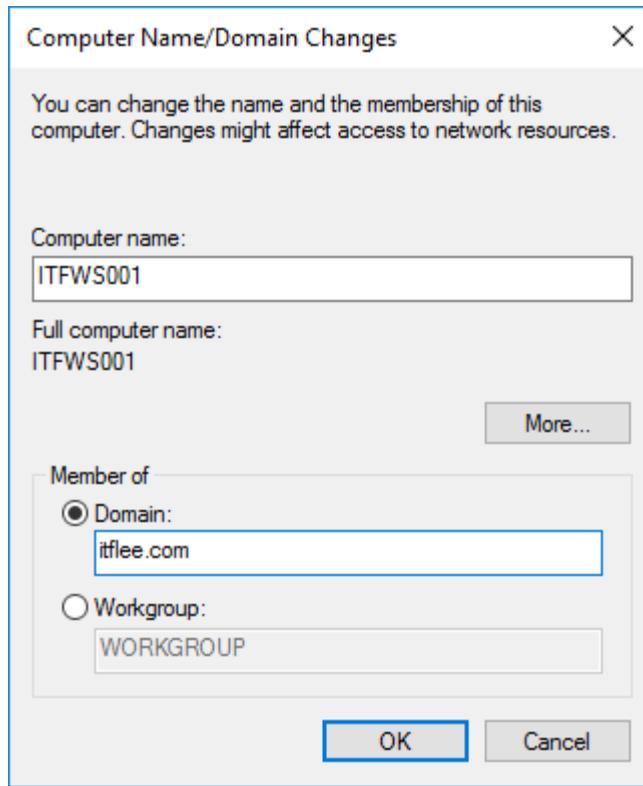
You will see a section called “Computer name, domain, and workgroup settings”. Click the **Change settings** text to the right of this.



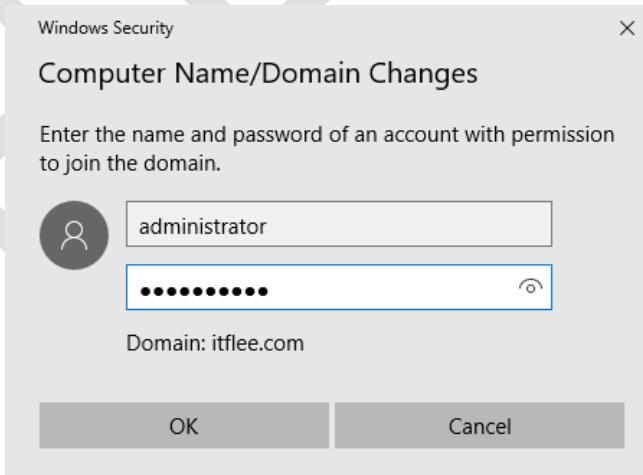
The **System Properties** window will appear. Click the **Change...** button in the middle of the screen. Enter a computer name. I am going to use “ITFWS001” for ITFLEE WORKSTATION 001. Check the **Domain** checkbox and enter the name of the domain you want to join. In my case it is “itflee.com”



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Click **OK**. Now we will be prompted to enter our domain administrative credentials so we can join this computer to the domain. We can use the “Administrator” account we used to create our Domain Controller. Enter the username “Administrator” and the password you used when creating your domain controller VM.



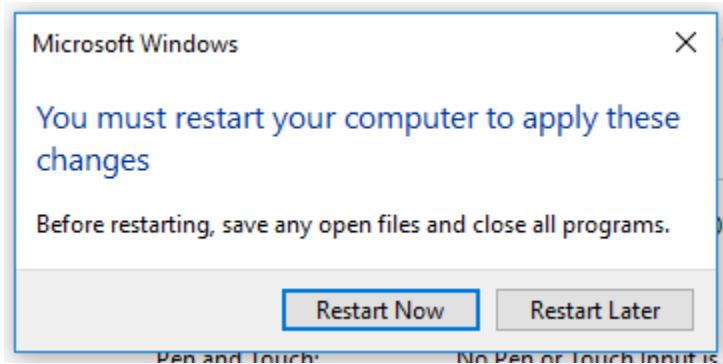
Click **OK**. In a moment you will see the “Welcome to the itflee.com domain” message appear. Click **OK** and you will then be notified that you must restart the computer. Click **OK** and **Close** the computer settings window.

Now you will be asked to reboot your computer. Click **Restart Now** and wait for your computer to reboot.

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Now while the computer is rebooting let's switch over to our Domain Controller. If you are in full screen mode on the Windows 10 VM press right-crtl+F to exit full screen mode and switch over to our Domain Controller. Log in to your DC and once Windows fully loads open Server Manager and select **Tools > Active Directory Users and Computers**.

Navigate to itflee.com > Computers. Notice we can see our new workstation has been added to built-in OU called Computers.

A screenshot of the "Active Directory Users and Computers" management console. The left pane shows a tree view with "Active Directory Users and Computers" selected. Under it, "Saved Queries", "itflee.com" (with "Computers" selected), and other OUs like "Builtin", "Domain Controllers", "ForeignSecurityPrincipals", "Managed Service Accounts", and "Users" are listed. The right pane displays a table with one item: ITFWS001, Type Computer. The table has columns for Name, Type, and Description.

Now our Windows 10 workstation is on the same network as our Domain Controller and we have successfully joined it to the Windows Domain that we created earlier. Great job and I will see you in the next lecture!