Answers: 8.1.4.4 Lab - Remote Desktop in Windows 7 and Vista

Introduction

In this lab, you will remotely connect to another Windows 7 or Vista computer.

Recommended Equipment

The following equipment is required for this exercise:

- Two Windows 7 or Vista PCs connected to a LAN.
- The two computers must be part of the same Workgroup and on the same subnet.

Step 1:   Enable Remote Desktop Connections on PC 2.

a. Log on to PC 2 as a member of the administrator group. Ask your instructor for the user name and password.

   Note: The user account must have a password to access PC 2 remotely.

b. Click **Control Panel > System > Remote settings**.
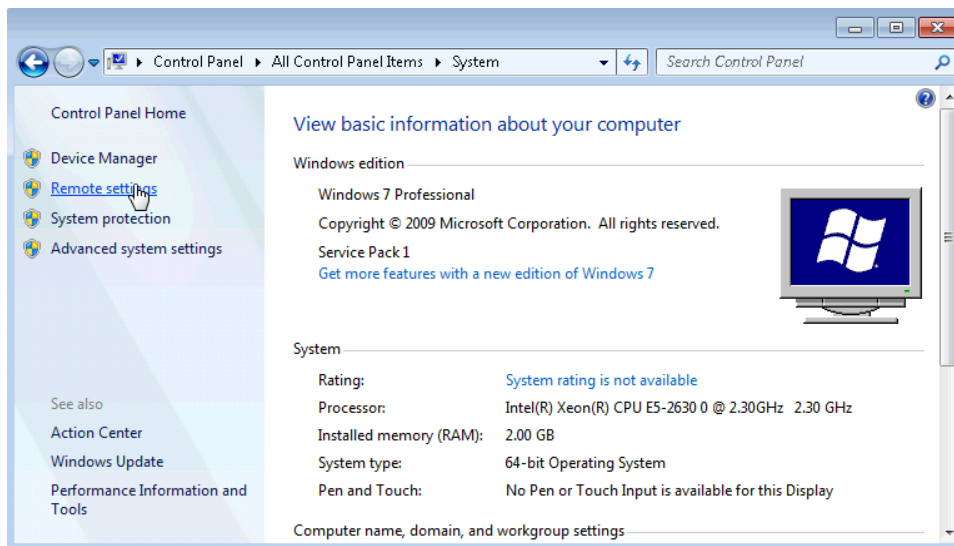
c. In the Remote Desktop area of the System Properties window, select **Allow connections only from computers running Remote Desktop with Network Level Authentication (more secure)**.

d.   If a warning message opens indicating that the computer is set to go to sleep, click the **Power Options** link.
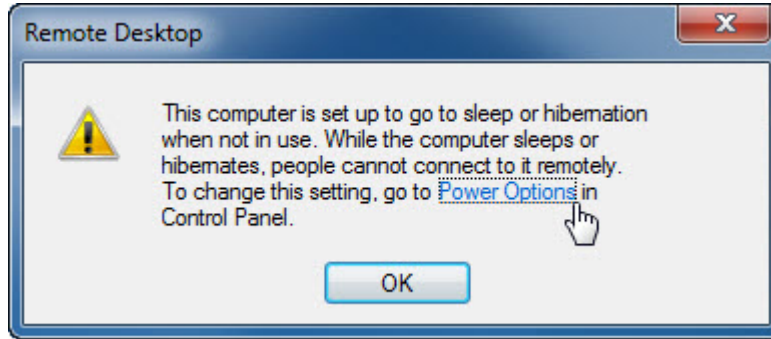
e.   The Select a power plan screen opens. Click **Change plan setting**, and then select **Never** in the Turn off the display and Put the computer to sleep dropdown boxes. Click **Save changes**.
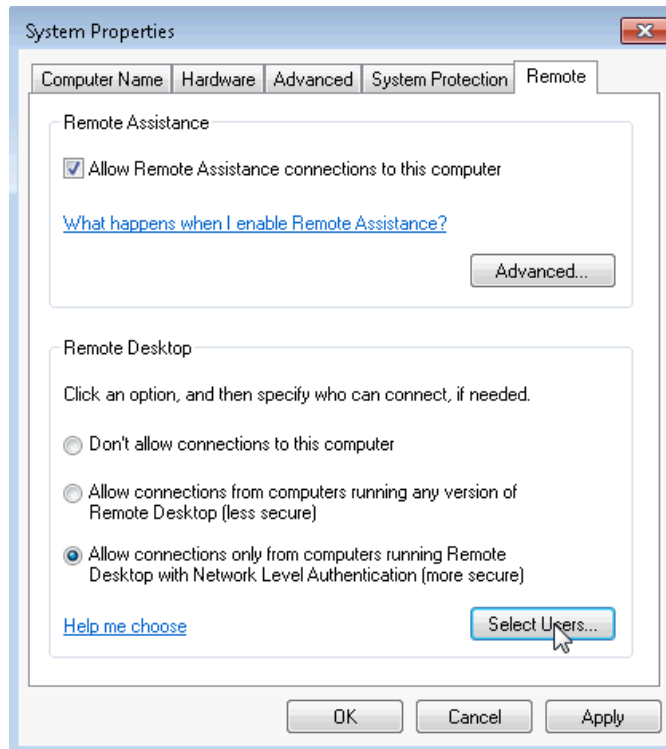
Note: If you cannot change the settings, you may need to click **Change settings that are currently unavailable** to allow you to edit the settings.

Note: This screen can also be opened by clicking **Control Panel > Power Options > Change when the computer sleeps**.
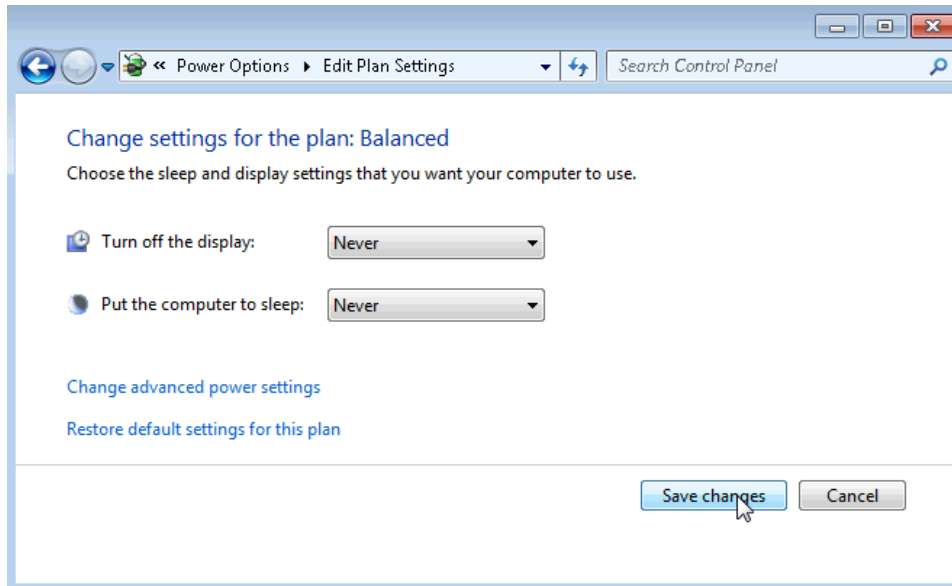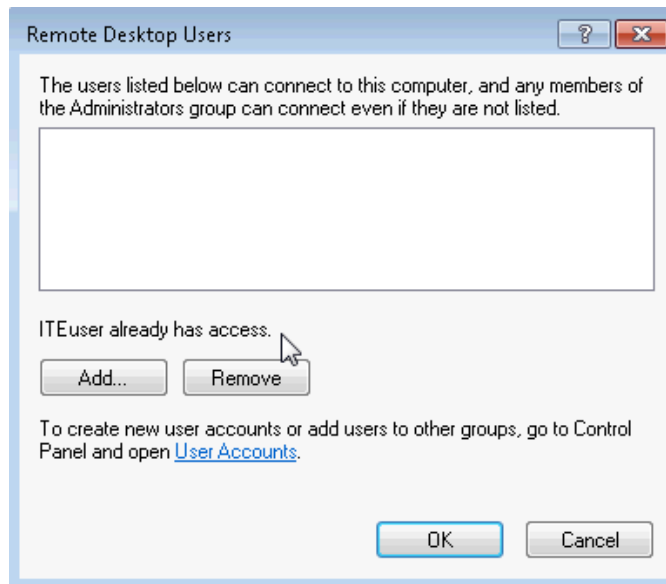

f.   Click **OK** to close the warning message, if it appears.

g. In the **System Properties** window, click **Select Users**.
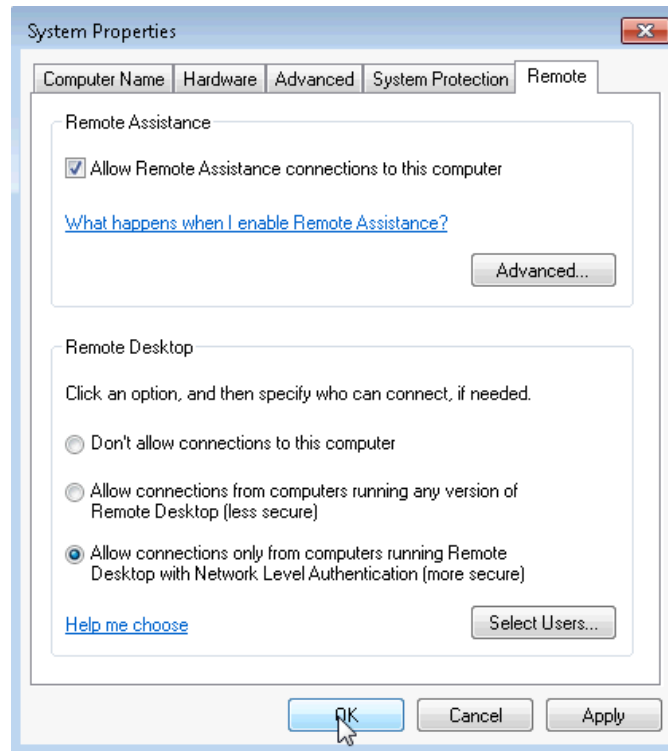

h. The **Remote Desktop Users** window opens.

Which user already has remote access?

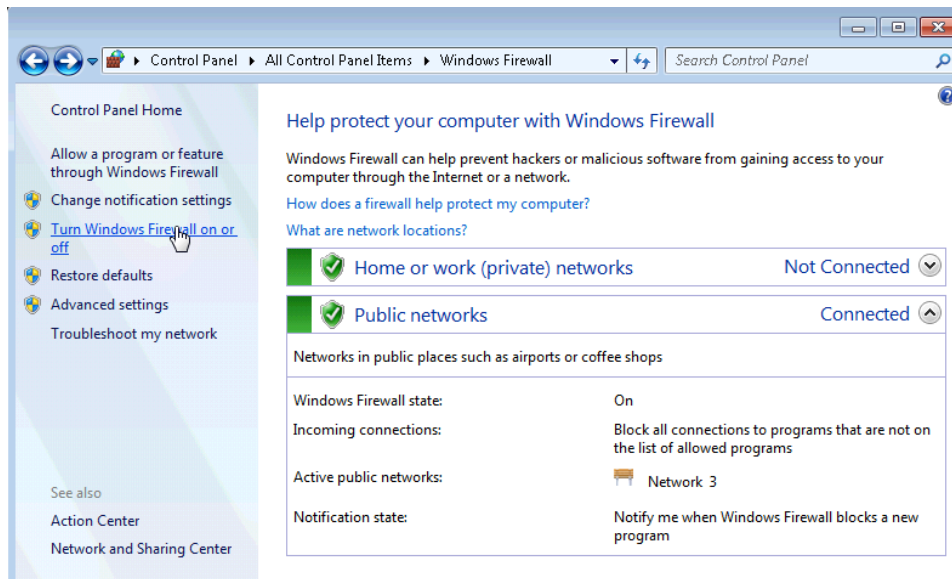i. Because you will use this account to gain remote access, you do not need to add any users, click **Cancel**.

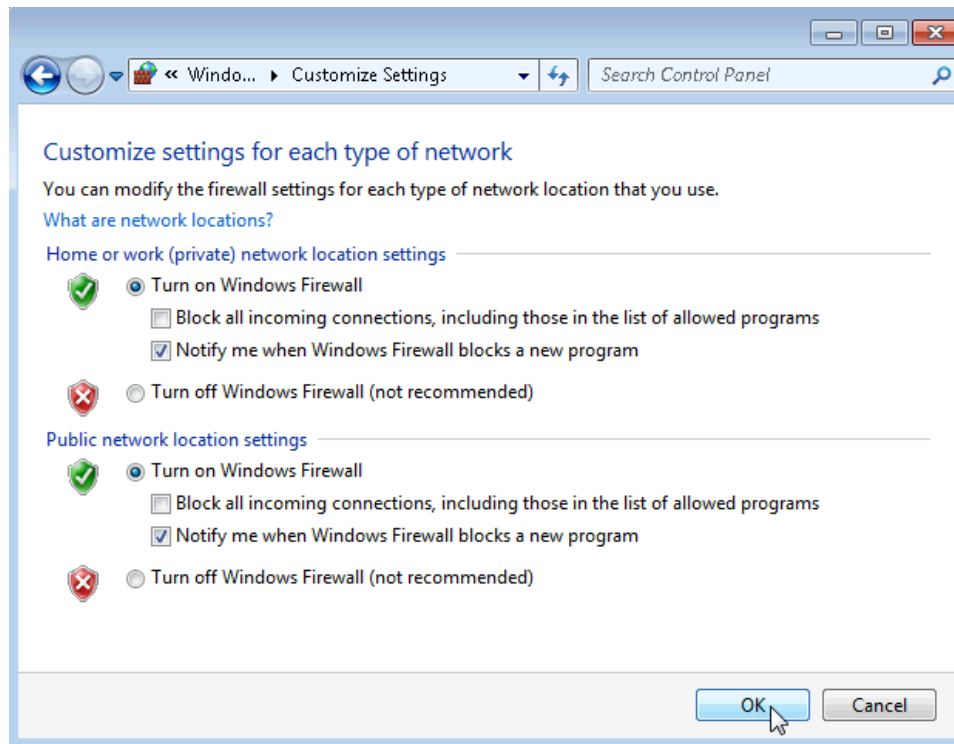j.   Click **OK** to apply changes and close the **System Properties** window.

Step 2:   Check the firewall settings on PC 2.

a.   Click **Control Panel > Windows Firewall > Turn Windows Firewall on or off**.

b. Verify that the **Turn on Windows Firewall** radio buttons are selected for both private and public networks. If they are not, then select **Turn on Windows Firewall**, and then click **OK**.
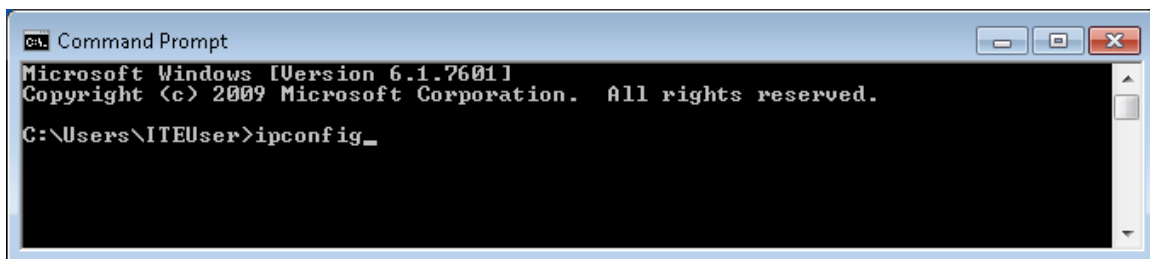

Note: Windows Vista only has the option to turn on or off the firewall. Verify that the **On (recommended)** radio button is selected.

Step 3: Determine PC 2's IPv4 Address.

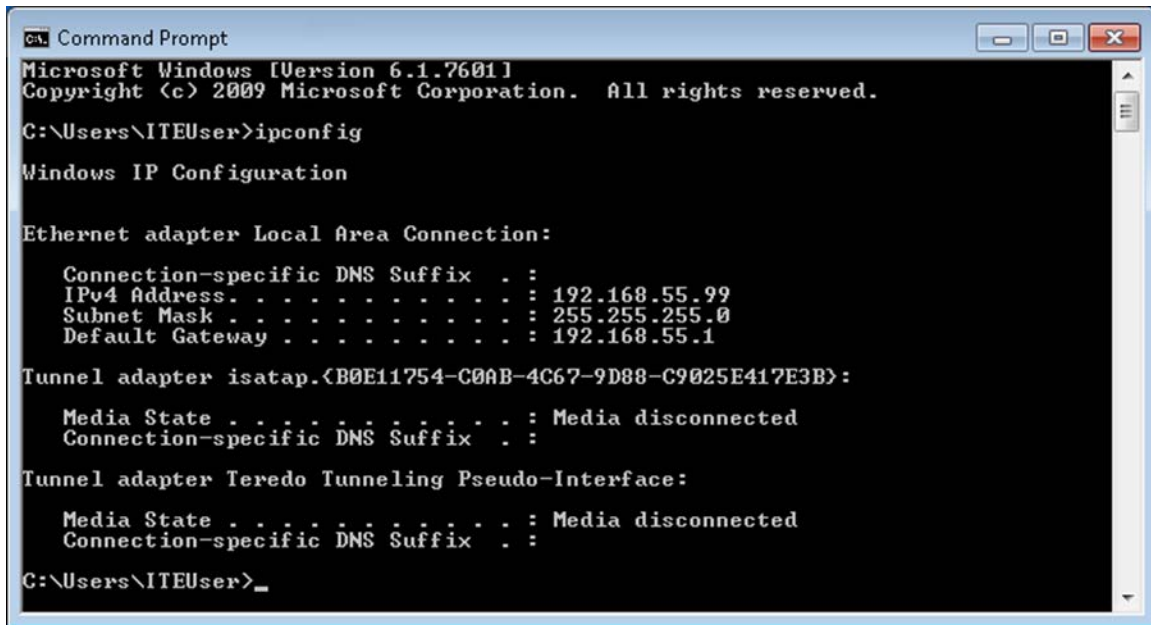a. Click **Start**, and then type **command prompt** and press **Enter** to open the **Command Prompt** window.
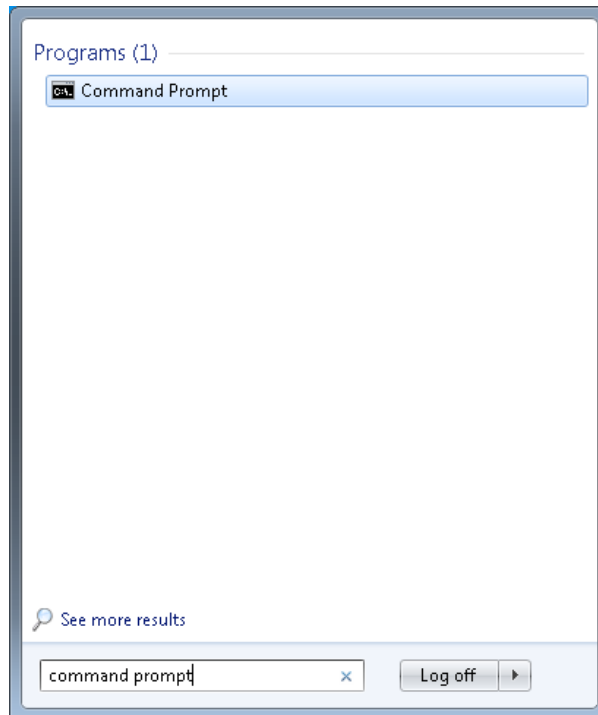
b. From the **Command Prompt** window, type **ipconfig** at the command prompt and then press **Enter**.

c. You will need PC 2's IPv4 Address to complete Step 4. The address can be located in the output generated from the **ipconfig** command. Under the **Ethernet adapter Local Area Connection** heading, and to the right of the **IPv4 Address** row.
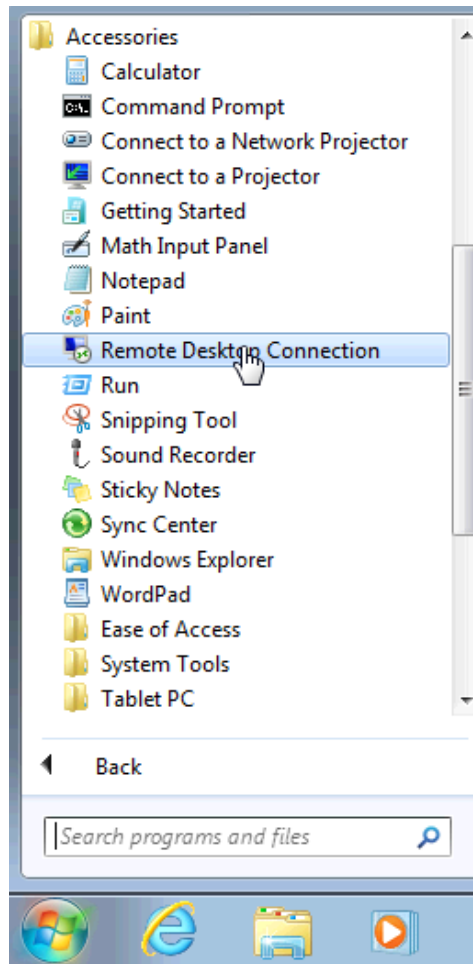

What is PC 2's IPv4 Address?

d. Close all open windows and log off PC 2.

**Step 4: From PC 1, use the Remote Desktop Connection to remotely access PC 2.**

a. Log on to PC 1 as an administrator or a member of the administrator group. Ask your instructor for the user name and password.

b. Click **Start > All Programs > Accessories > Remote Desktop Connection**.

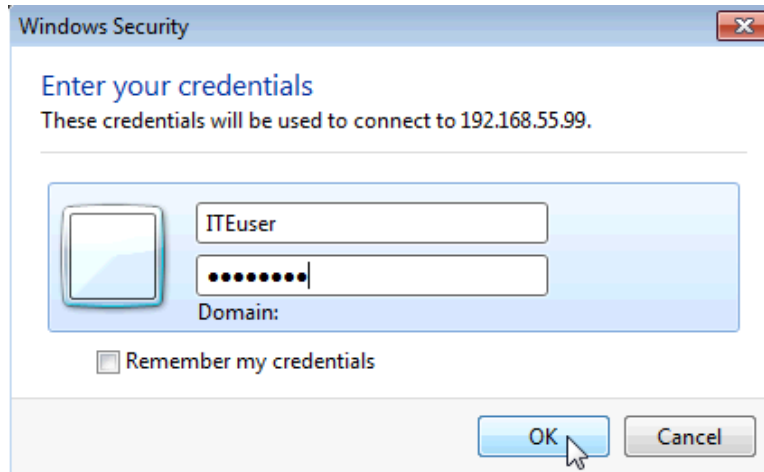c. The **Remote Desktop Connection** window opens. Type PC 2's IPv4 Address into the Computer field and then click **Connect.**
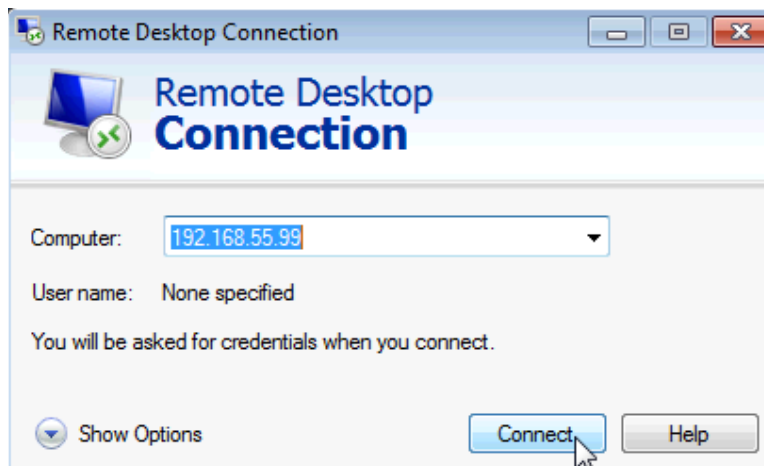
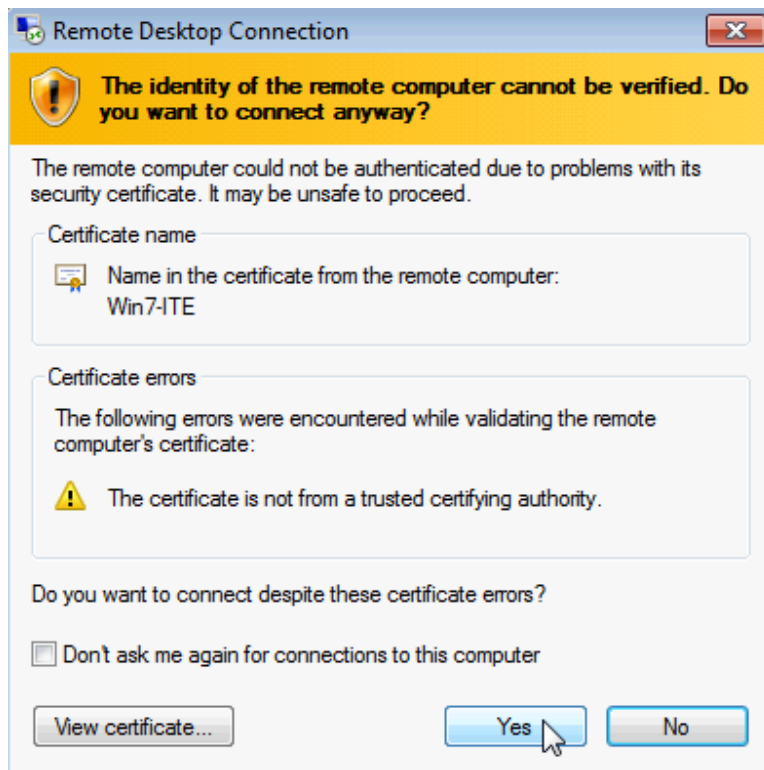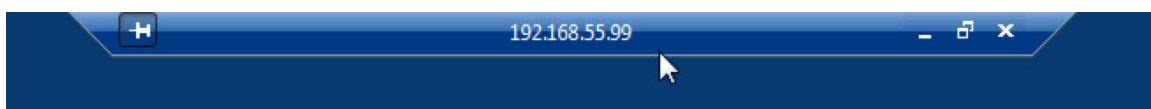d. The Windows Security window opens. Enter the same user name and password that you used to login to PC 2 in Step 1. Click **OK**.
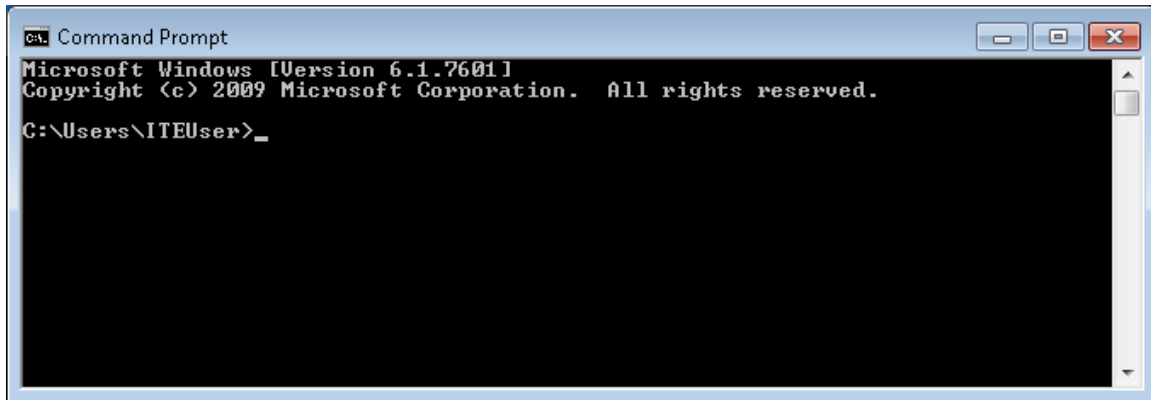

e. Click **Yes** to allow the connection.

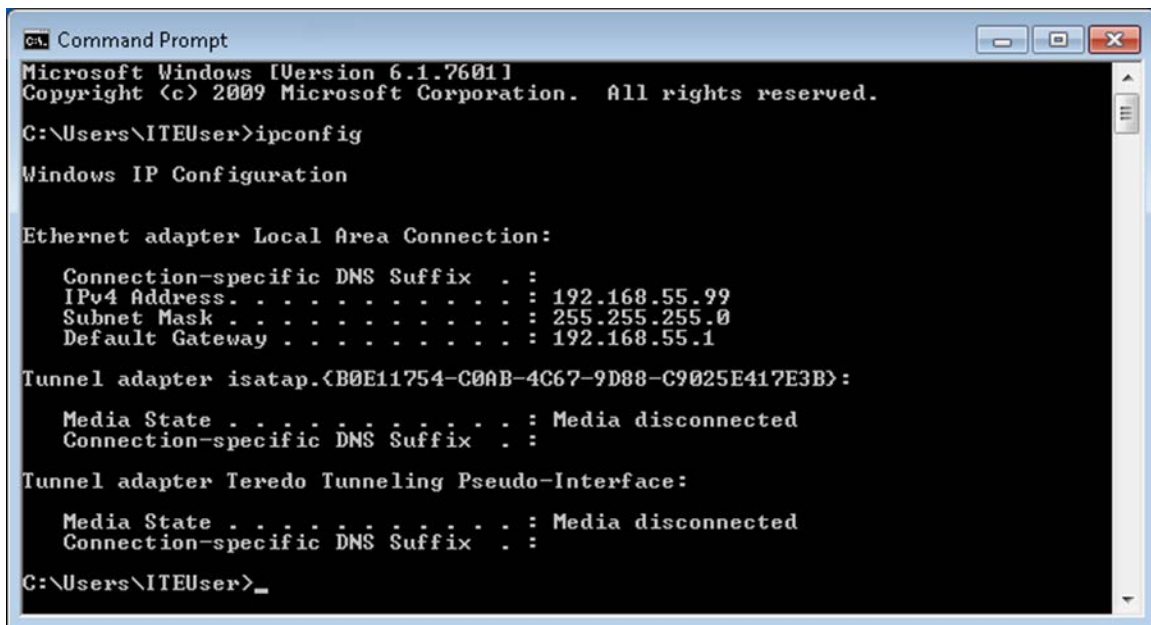f. The desktop changes and a bar appears at the top of the screen with the IPv4 Address of PC 2.

What does this bar at the top of the desktop indicate?

Step 5: Verify that you are remotely connected to PC 2.

a. Click **Start** and then type **command prompt** to open a **Command Prompt** window.

```
Command Prompt
Microsoft Windows [Version 6.1.7601]
Copyright (c) 2009 Microsoft Corporation.  All rights reserved.

C:\Users\ITEUser>_
```

b. Type **ipconfig** at the command prompt and press **Enter** to view the PC's IP Address.

```
Command Prompt
Microsoft Windows [Version 6.1.7601]
Copyright (c) 2009 Microsoft Corporation.  All rights reserved.

C:\Users\ITEUser>ipconfig

Windows IP Configuration

Ethernet adapter Local Area Connection:

   Connection-specific DNS Suffix  . :
   IPv4 Address. . . . . . . . . . . : 192.168.55.99
   Subnet Mask . . . . . . . . . . . : 255.255.255.0
   Default Gateway . . . . . . . . . : 192.168.55.1

Tunnel adapter isatap.{B0E11754-C0AB-4C67-9D88-C9025E417E3B}:

   Media State . . . . . . . . . . . : Media disconnected
   Connection-specific DNS Suffix  . :

Tunnel adapter Teredo Tunneling Pseudo-Interface:

   Media State . . . . . . . . . . . : Media disconnected
   Connection-specific DNS Suffix  . :

C:\Users\ITEUser>_
```

Compare the IP Address that is displayed to PC 2's IP Address that you wrote down at the end of Step 3.

Are the IP Addresses the same?

c. Click the **Minimize** button on the **Remote Desktop Connection** bar at the top of the screen.
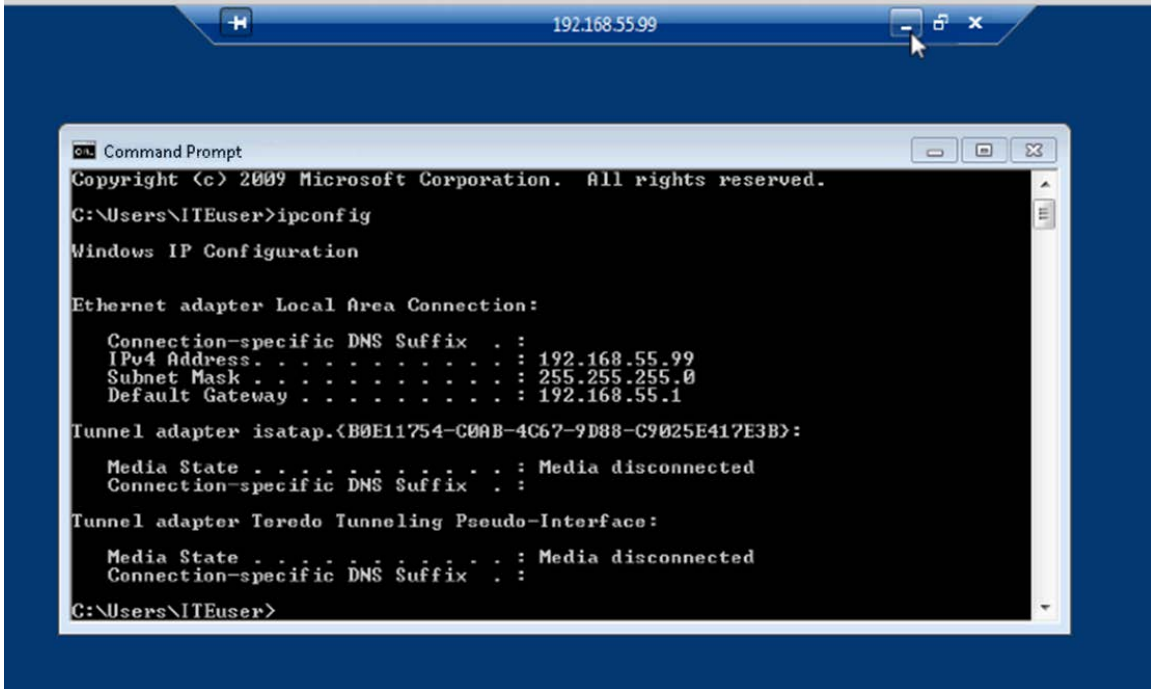

What happens to the desktop?

Step 6: Try to establish a second Remote Desktop Connection to PC 2.

When you connect to a remote PC using RDC and login to that PC with a local username and password, everything works as though you are logging into the PC locally. The problem with that is that only one user can be logged into a Windows PC at a time. That is why logging into a remote Windows PC using RDC will actually log out another RDC or local user.
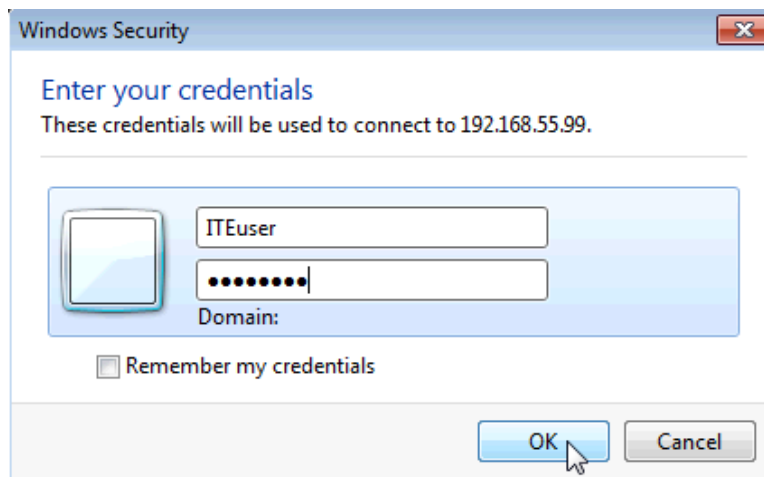
a. Working from PC 1, with the first RDC session to PC 2 still minimized, click **Start > All Programs > Accessories > Remote Desktop Connection**.
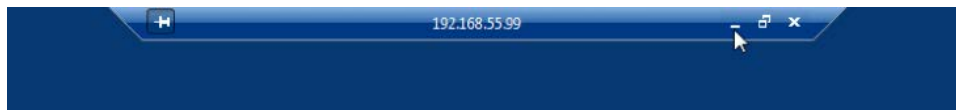
b. Establish a second RDC session to PC 2 by typing PC 2's IPv4 Address into the Computer field again, and then clicking **Connect**.
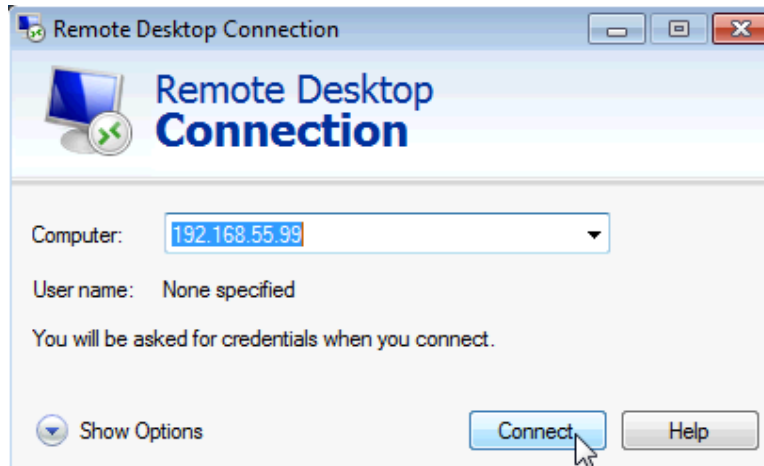
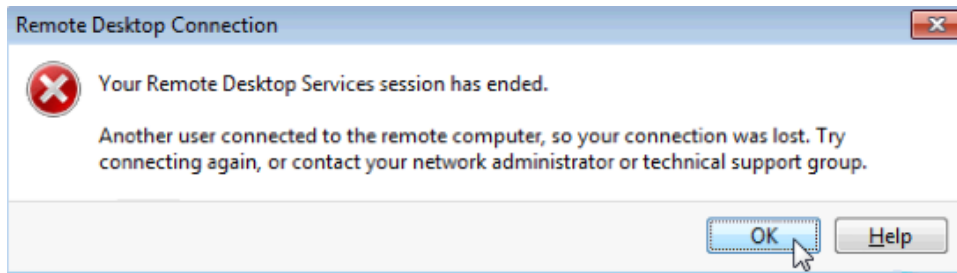c. When the **Windows Security** window opens, enter the user name and password for PC 2 and click **OK**.

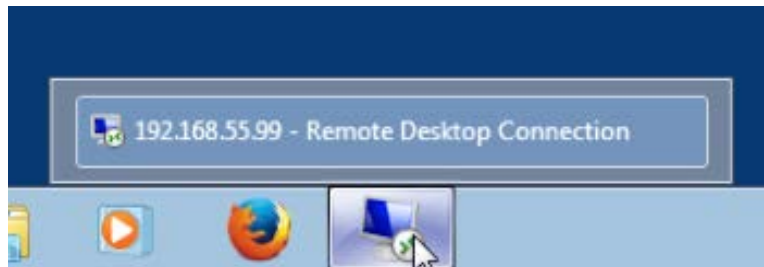d. Minimize the second session of RDC by clicking the **Minimize** button on the RDC bar at the top of the screen.

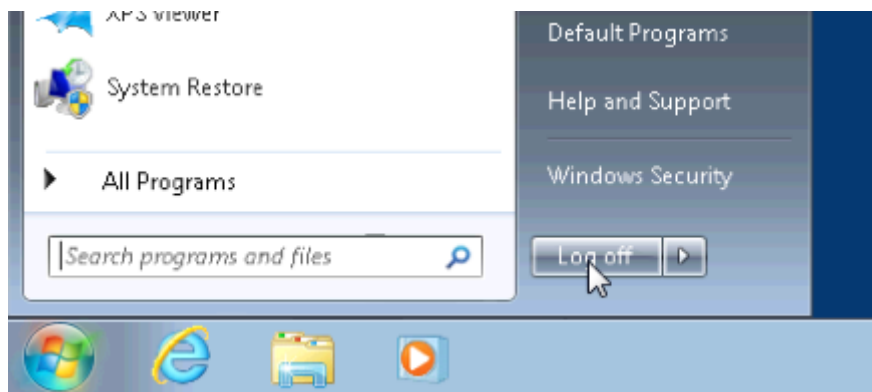e.   Read the Remote Desktop Connection message that appears on PC 1's desktop, then click **OK**.

Which RDC session was ended? Why?

f.   Maximize your RDC session to PC 2. Click on the **RDC** icon in the taskbar of **PC 1**.

g.   You should see the RDC bar displaying PC 2's IPv4 Address at the top of the screen. Click **Start > Log off**, to log out of PC 2 and close the RDC session.

h.   Close all remaining open windows on PC 1.

Reflection

1.   What happens to a local user signed into PC 2 when a remote user logs into PC 2 using RDC?

2. Why would an IT administrator use RDC?