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.

				- • •
🚱 🗢 🗟 « Power Options 🕨	Edit Plan Settings 🛛 👻	• ••	Search Control Panel	Q
Change settings for the pl Choose the sleep and display setti	an: Balanced ngs that you want your comp	uter to	use.	
🔮 Turn off the display:	Never -			
9 Put the computer to sleep:	Never			
Change advanced power settings				
Restore default settings for this plan				
			Save changes	Cancel

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

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

System Properties			
Computer Name Hardware Advanced System Protection Remote			
Remote Assistance			
Illow Remote Assistance connections to this computer			
What happens when Lenable Remote Assistance?			
Advanced			
Remote Desktop			
Click an option, and then specify who can connect, if needed.			
Don't allow connections to this computer			
 Allow connections from computers running any version of Remote Desktop (less secure) 			
 Allow connections only from computers running Remote Desktop with Network Level Authentication (more secure) 			
Help me choose Select Upers			
OK Cancel Apply			

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.

😋 💽 🗢 💣 🕨 Control Panel 🕨	All Control Panel Items 🕨 Windows Firewall	 ✓ ✓	
Control Panel Home	Help protect your computer with	Windows Firewall	
Allow a program or feature through Windows Firewall	Windows Firewall can help prevent hackers computer through the Internet or a networ	or malicious software from gaining access to your k.	
😵 Change notification settings	How does a firewall help protect my comp	uter?	
Turn Windows Fire Rall on or	What are network locations?		
Restore defaults	Home or work (private)	networks Not Connected 📎	
😵 Advanced settings	Public networks	Connected 📀	
Troubleshoot my network	Networks in public places such as airports or coffee shops		
	Windows Firewall state:	On	
	Incoming connections:	Block all connections to programs that are not on the list of allowed programs	
See also	Active public networks:	Metwork 3	
Action Center	Notification state:	Notify me when Windows Firewall blocks a new	
Network and Sharing Center		program	

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**.

🚱 🕞 🗢 🕍 « Windo 🕨 Customize Settings 🛛 👻 🍫 Search Control Panel 🖉
Customize settings for each type of network
You can modify the firewall settings for each type of network location that you use.
What are network locations?
Home or work (private) network location settings
Iurn on Windows Firewall
Block all incoming connections, including those in the list of allowed programs
Notify me when Windows Firewall blocks a new program
🔯 💿 Turn off Windows Firewall (not recommended)
Public network location settings
💿 💿 Turn on Windows Firewall
Block all incoming connections, including those in the list of allowed programs
Notify me when Windows Firewall blocks a new program
👩 💿 Turn off Windows Firewall (not recommended)
•
OK Cancel

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.

Programs (1)			
📾 Command Prompt			
₽ See more results			
command prompt ×	Log off		

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.

la Accessories	
Calculator	
Command Prompt	
Connect to a Network Projector	
🖳 Connect to a Projector	
📳 Getting Started	
🛃 Math Input Panel	
Notepad	
刻 Paint	
nemote Desktor Connection	
🖅 Run 🔍	Ξ
😪 Snipping Tool	
🐌 Sound Recorder	
🍖 Sticky Notes	
🔞 Sync Center	
🥽 Windows Explorer	
📇 WordPad	
Ease of Access	
퉬 System Tools	
퉬 Tablet PC	Ŧ
	-
4 Back	
	1
Search programs and files	
	_

c. The **Remote Desktop Connection** window opens. Type PC 2's IPv4 Address into the Computer field and then click **Connect.**

s Remote Desktop Connection				
	Remote Desktop Connection			
Computer: Username: You will be a	192.168.55.99 None specified sked for credentials when you conr	▼		
Show C	ptions	Connect Help		

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**.

Windows Security	×
Enter your credentials These credentials will be used to connect to 192.168.55.99.	
ITEuser •••••• Domain:	
Remember my credentials	
OK Can	cel

e. Click Yes to allow the connection.

Nemote Desktop Connection		
The identity of the remote computer cannot be verified. Do you want to connect anyway?		
The remote computer could not be authenticated due to problems with its security certificate. It may be unsafe to proceed.		
Certificate name		
Name in the certificate from the remote computer: Win7-ITE		
Certificate errors		
The following errors were encountered while validating the remote computer's certificate:		
The certificate is not from a trusted certifying authority.		
Do you want to connect despite these certificate errors?		
Don't ask me again for connections to this computer		
View certificate Yes No		

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

192.168.55.99	×
*	

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.



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



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**.

💀 Remote Desktop Connection 📃 📼 💌			
-	Remote Desktop Connection		
Computer: User name: You will be a:	192.168.55.99 None specified sked for credentials when you conne	▼	
💽 Show C	ptions	Connect Help	

c. When the Windows Security window opens, enter the user name and password for PC 2 and click OK.

Windows Security	,	x
Enter your of These credentia	credentials Is will be used to connect to 192.168.55.99.	
	ITEuser ●●●●●● Domain:	
Remer	nber my credentials	
	OK Canc	el

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?