



NETWORK SECURITY LAB SERIES

Lab 14: Configuring a Site to Branch Virtual Private Network

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Introduction

This lab is a part of a series of lab exercises intended to support courseware for Network Security training. This lab includes the following tasks:

1. Setting up the Branch Office Machines
2. Configuring the Main Office VPN Server and the Branch Server
3. Accessing Resources on the Remote Network

Key terms for this lab:

Branch Office – Part of a company's network may be located in a different physical location. This other part of the network is often referred to as a branch office.

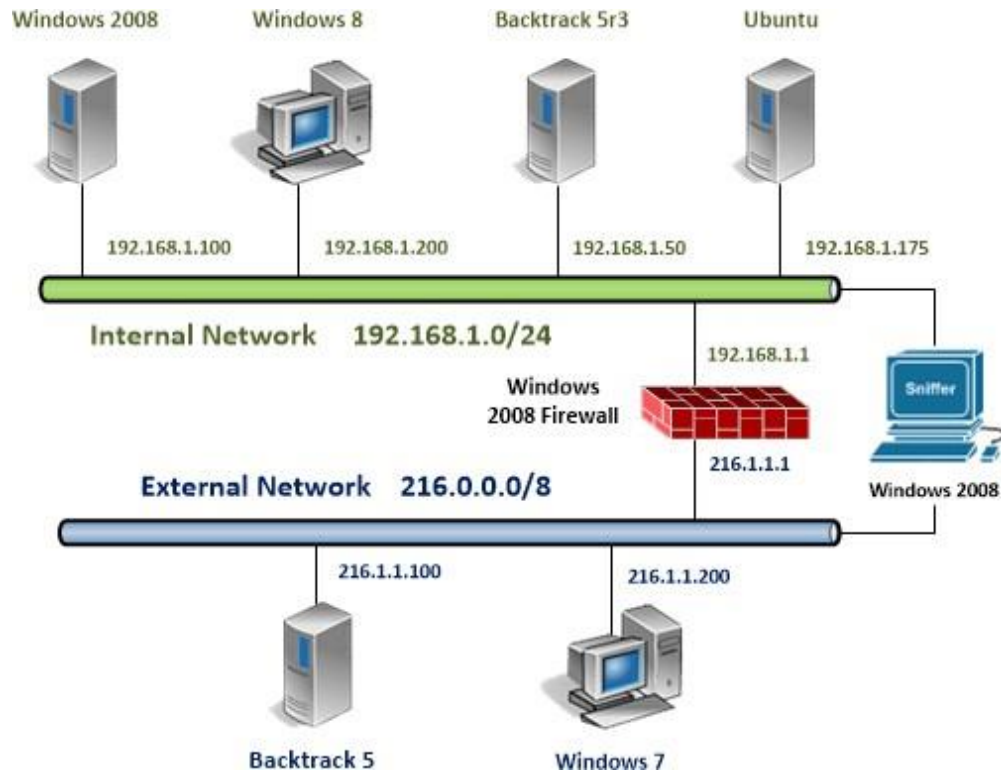
RIPv2 – Routing Information Protocol, Version 2, uses a multicast address to update information about routing over UDP (User Datagram Protocol) port 520.

UDP – User Datagram Protocol is a connection-less oriented protocol in contrast to TCP (Transmission Control Protocol) which is a connection-oriented protocol.

Wireshark – A Protocol Analyzer that will allow you to capture traffic.

Routing and Remote Access – A Microsoft Application Program Interface (API) and server software that makes it possible to create applications to administer the routing and remote access service capabilities of the operating system, to function as a network router.

Lab Topology



Lab Settings

The information in the table below will be needed in order to complete the lab. The task sections below provide details on the use of this information.

Virtual Machine	IP Address	Account (if needed)	Password (if needed)
Windows 2008 Internal Machine	192.168.1.100	Administrator	P@ssw0rd
Windows 8 Internal Machine	192.168.1.200	Student	password
Ubuntu Internal Machine	192.168.1.175	Sysadmin	P@ssw0rd
Windows 2008 Firewall	216.1.1.1 192.168.1.1	administrator	firewall
Windows 2008 Sniffer	n/a	administrator	sniffer

For all the tasks in this lab, you will be asked to open and return to various machines and applications within each machine. For some steps, this can get confusing.

To minimize confusion and the need to reopen machines and applications, it is suggested that you minimize, rather than close a machine before opening another.

At the end of the lab, remember to close all open windows and close the PC viewers.

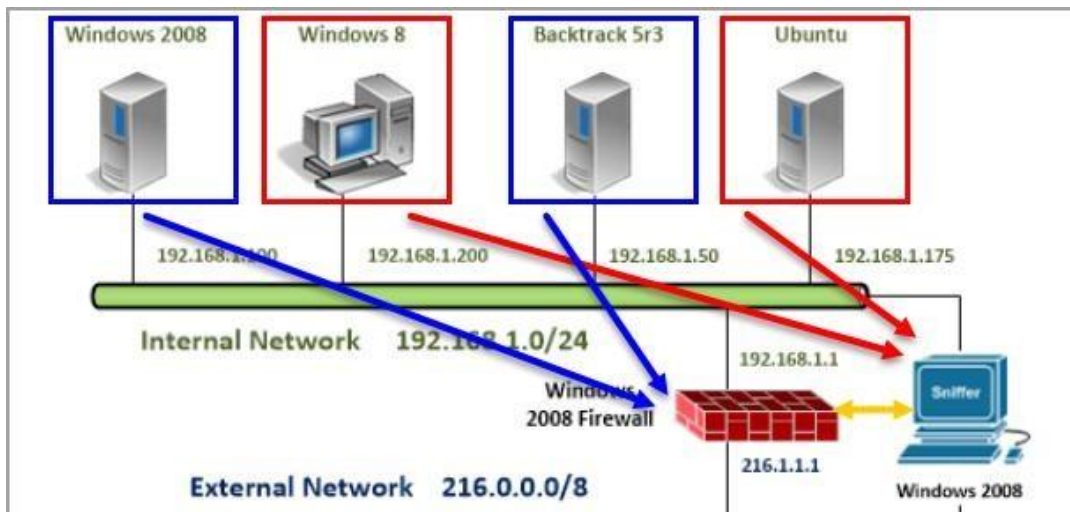


1 Configuring the Branch Office Machines

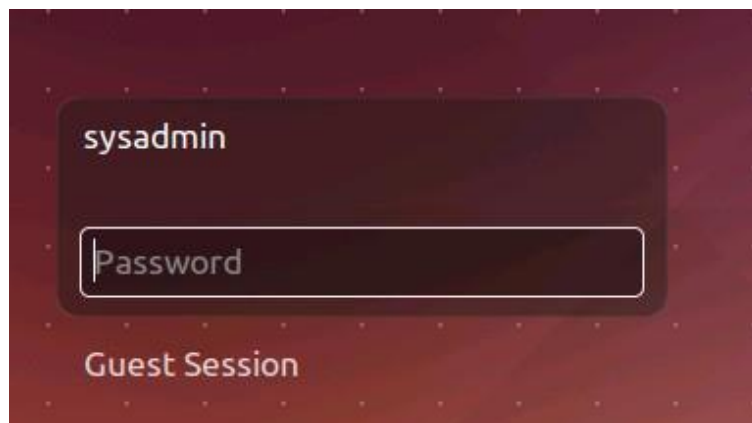
In this section, we will change the IP address of the Windows 8 Internal Machine and the Ubuntu Internal Machine so that they will be on a different network. These machines will be part of a branch office.

1.1 Changing Networks for Ubuntu and Windows 8

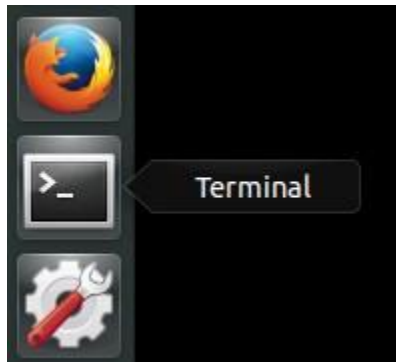
We will now change the IP addresses of some machines on the internal Network. There will be two subnets, 172.16.1.0/24 and 192.168.1.0/24. The Windows 8 Internal Machine and Ubuntu Internal Machines will be part of a branch office. The Windows 2008 Internal Machine and BackTrack 5 R3 Internal Machine are going to stay part of the main site, so those machines will not need to be reconfigured.



1. Click on the **Ubuntu Server** icon on the topology. Log on as the user **sysadmin** with the password of **P@ssw0rd**.



- Open the terminal by clicking on the **Terminal** icon on the left side of the screen.



- Type the following command to set the IP address of the Ubuntu Server:
sysadmin@ubuntu:~# **sudo ifconfig eth0 172.16.1.175 netmask 255.255.255.0 up**. Type **P@ssw0rd** as the sudo password.

```
sysadmin@ubuntu:~$ sudo ifconfig eth0 172.16.1.175 netmask 255.255.255.0 up
[sudo] password for sysadmin:
```

- Type the following command to set the Gateway of the Ubuntu Server:
sysadmin@ubuntu:~# **sudo route add default gw 172.16.1.1**

```
sysadmin@ubuntu:~$ sudo route add default gw 172.16.1.1
```

- Type the following command to view the gateway of the Ubuntu Server:
sysadmin@ubuntu:~# **netstat -r**

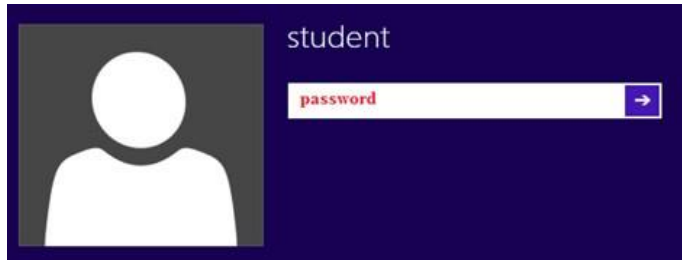
```
sysadmin@ubuntu:~$ netstat -r
Kernel IP routing table
Destination      Gateway          Genmask         Flags         MSS Window  irtt Iface
default          172.16.1.1      0.0.0.0         UG            0 0        0 eth0
172.16.1.0       *               255.255.255.0   U            0 0        0 eth0
```

- Type the following command to ping the gateway four times:
root@ubuntu:~# **ping 172.16.1.1 -c 4**

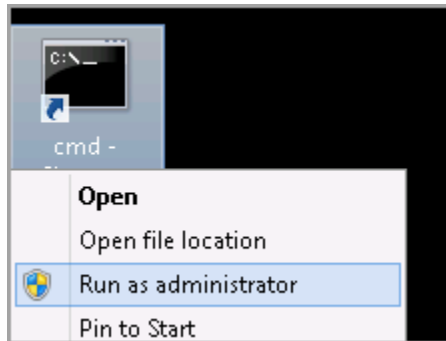
```
sysadmin@ubuntu:~$ ping 172.16.1.1 -c 4
PING 172.16.1.1 (172.16.1.1) 56(84) bytes of data.
64 bytes from 172.16.1.1: icmp_seq=1 ttl=128 time=0.353 ms
64 bytes from 172.16.1.1: icmp_seq=2 ttl=128 time=0.248 ms
64 bytes from 172.16.1.1: icmp_seq=3 ttl=128 time=0.248 ms
64 bytes from 172.16.1.1: icmp_seq=4 ttl=128 time=0.210 ms

--- 172.16.1.1 ping statistics ---
4 packets transmitted, 4 received, 0% packet loss, time 3000ms
rtt min/avg/max/mdev = 0.210/0.264/0.353/0.056 ms
```

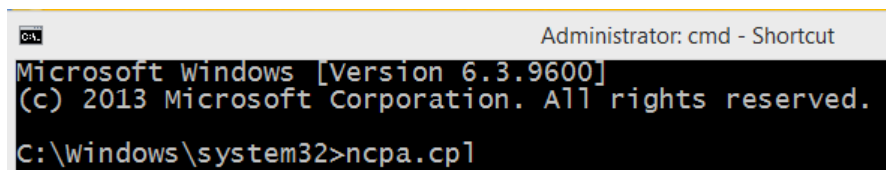
- Click on the **Windows 8** icon on the lab topology to bring up the login screen. For the student password, type **password**, and then press **Enter**.



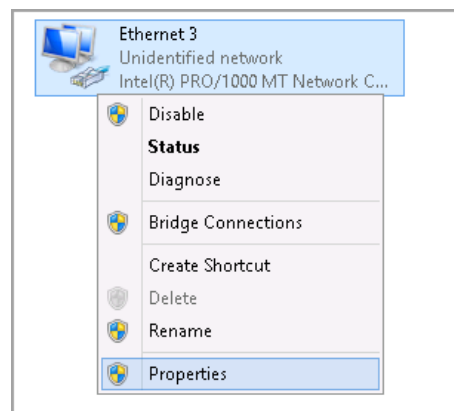
- Right-click on the cmd-Shortcut on the desktop and select **Run as Administrator**.



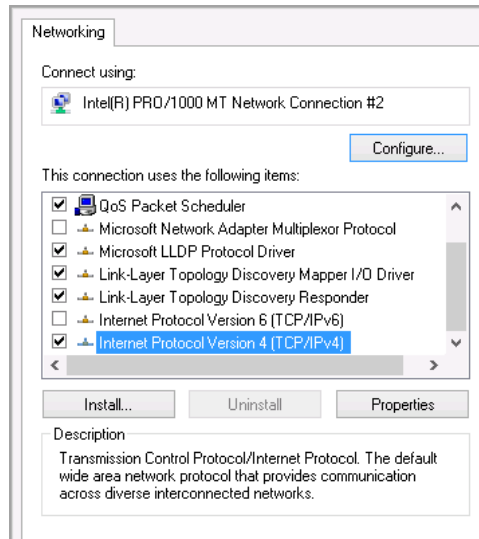
- Type the following command to go to the root of the C: Drive
`C:\Windows\system32>ncpa.cpl`



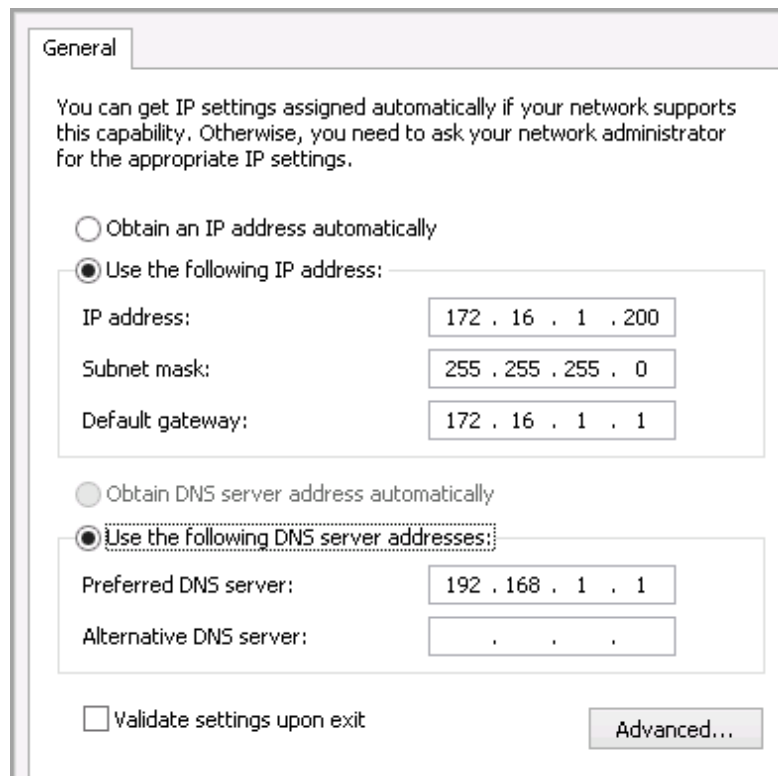
- Right-click on **Ethernet 3** and select **Properties** from the menu-bar.



11. Scroll down to **Internet Protocol (TCP/IPv4)** and double-click on it.



12. Change the IP address to **172.16.1.200** and the Default Gateway to **172.16.1.1**. Leave the Subnet Mask and DNS (Domain Name System) fields alone. Click **OK** twice.



13. Go back to the command prompt and type the following command to scan the 172.16.1.0/24 network for the 3 hosts. This may take a few seconds.

C:\>nmap -sP 172.16.1.*

```
C:\Windows\system32>nmap -sP 172.16.1.*

Starting Nmap 5.51 ( http://nmap.org ) at 2014-06-17 14:46 Eastern Summer Time
Nmap scan report for 172.16.1.1
Host is up (0.00s latency).
MAC Address: 00:0C:29:77:40:8C (VMware)
Nmap scan report for 172.16.1.175
Host is up (0.00s latency).
MAC Address: 00:0C:29:A2:ED:87 (VMware)
Nmap scan report for 172.16.1.200
Host is up.
Nmap done: 256 IP addresses (3 hosts up) scanned in 32.28 seconds
```

14. To prove that computers on the 172.16.1.0/24 subnet cannot reach the computers on the 192.168.1.0/24 subnet, type the following command:

C:\>ping 192.168.1.100 -t

```
C:\Windows\system32>ping 192.168.1.100 -t

Pinging 192.168.1.100 with 32 bytes of data:
Request timed out.
Request timed out.
Request timed out.
```

Do not stop the ping. We will return to this later in the lab.

1.2 Conclusion

A branch network will likely be on a different IP subnet than the main site or location, and likely have a different gateway. A branch site is a part of a company's network that may be located in a different physical location. Branches can be connected by using a VPN.

1.3 Discussion Questions

1. What is a Branch Office?

Ans: When two internal machines work together it comes under Branch Office.

2. What is the command to set your IP address in Linux?

Ans: The Command to set your IP address in Linux is `sudo ifconfig eth0 172.16.1.175 netmask 255.255.255.0`.



3. What is the command to set your Gateway Address in Linux?

Ans: The command to set your Gateway Address in Linux is `sudo route add default gw 172.16.1.1`.

4. What is the command to view your Gateway address in Linux?

Ans: `netstat -r`.

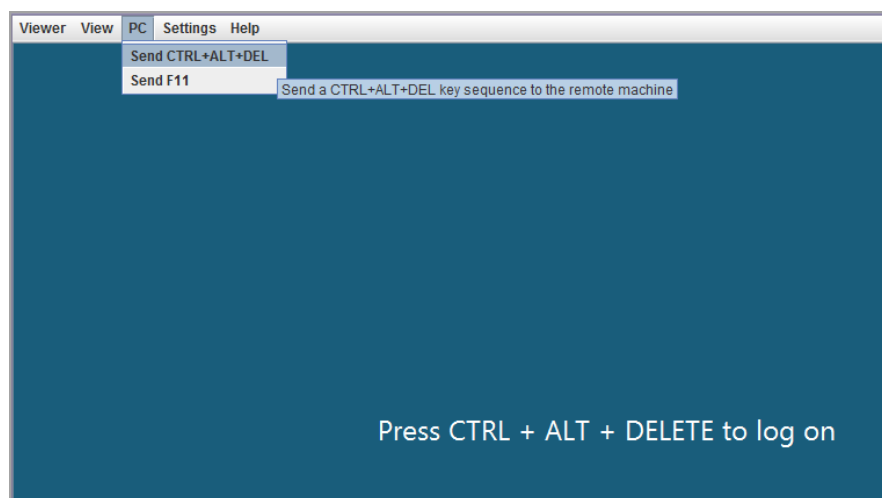


2 Configuring the Main Office VPN Server and the Branch Server

In previous labs, we configured Virtual Private Networks so external clients could access the company's internal resources. In this lab, we will configure a VPN between the Main Office and a Branch location. This will allow users on a different physical network (at a branch location) to access resources on the internal network of the main office.

2.1 Setting up a VPN between the Main and Branch Offices

1. Click the **Windows 2008 Firewall** icon on the topology. Click **PC**, then **Send Ctrl+Alt+Del** in the top left corner of the screen in order to log on to the Windows 2008 Firewall server.



2. Enter **firewall** for the Administrator user password to the Windows 2008 Server.



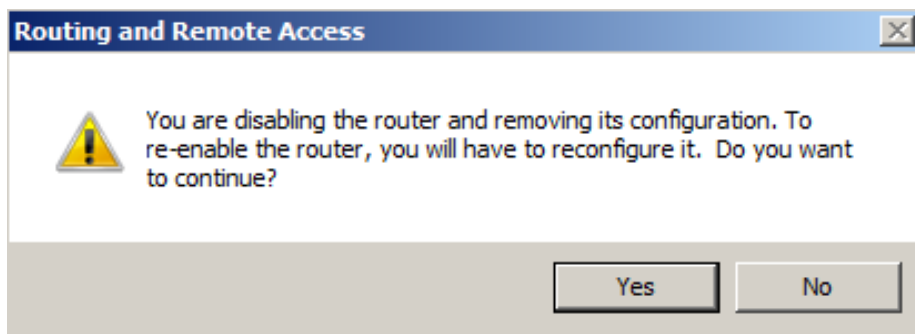
3. Double-click the shortcut to **Routing and Remote Access** on the desktop.



4. Right-click on FW (local) and select **Disable Routing and Remote Access**.



5. Select **Yes** when you are asked if you want to continue.



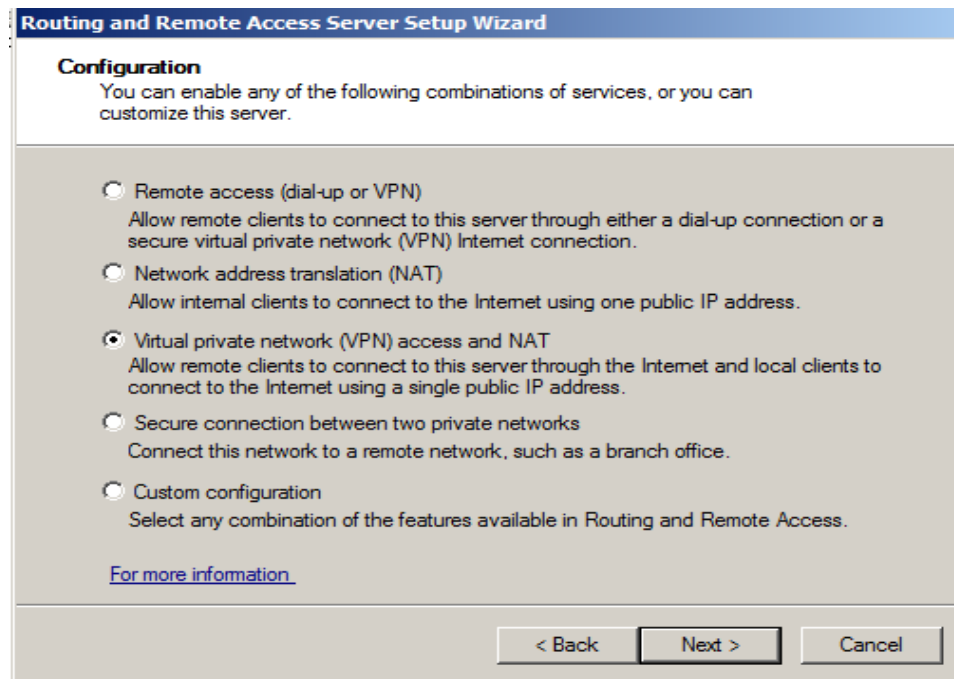
6. Right-click on FW (local) and select **Configure and Enable Routing and Remote Access**.



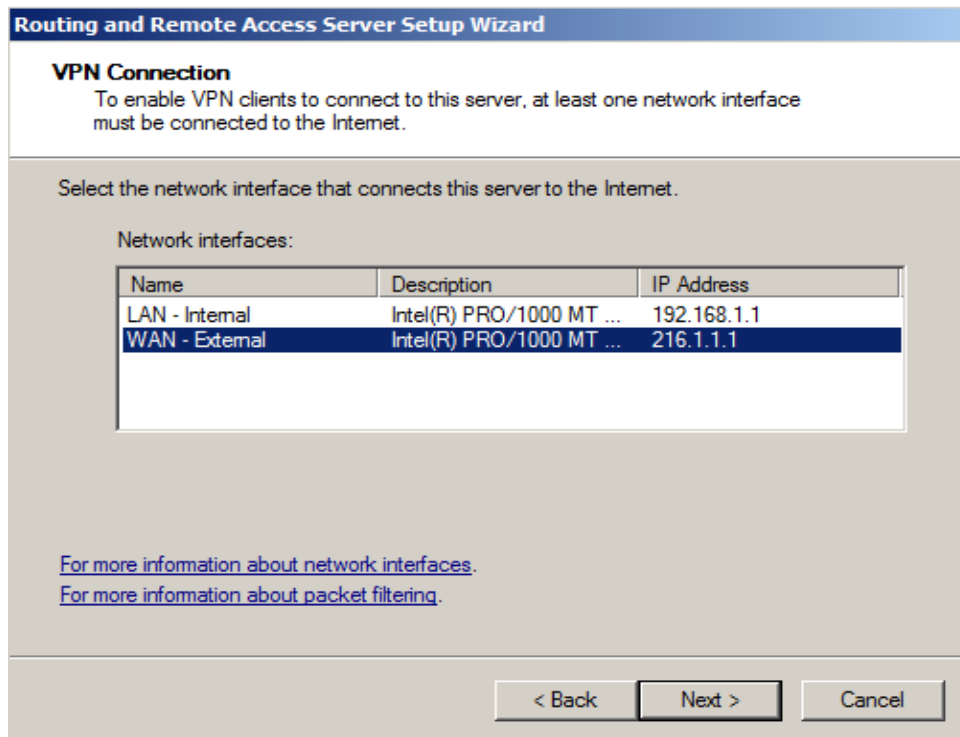
- Click **Next** to the Welcome to the Routing and Remote Access Setup Wizard.



- Choose **Virtual private network (VPN Access) and NAT**. Click **Next**.



9. Select the **WAN - External** interface and then click the **Next** button.



Routing and Remote Access Server Setup Wizard

VPN Connection
To enable VPN clients to connect to this server, at least one network interface must be connected to the Internet.

Select the network interface that connects this server to the Internet.

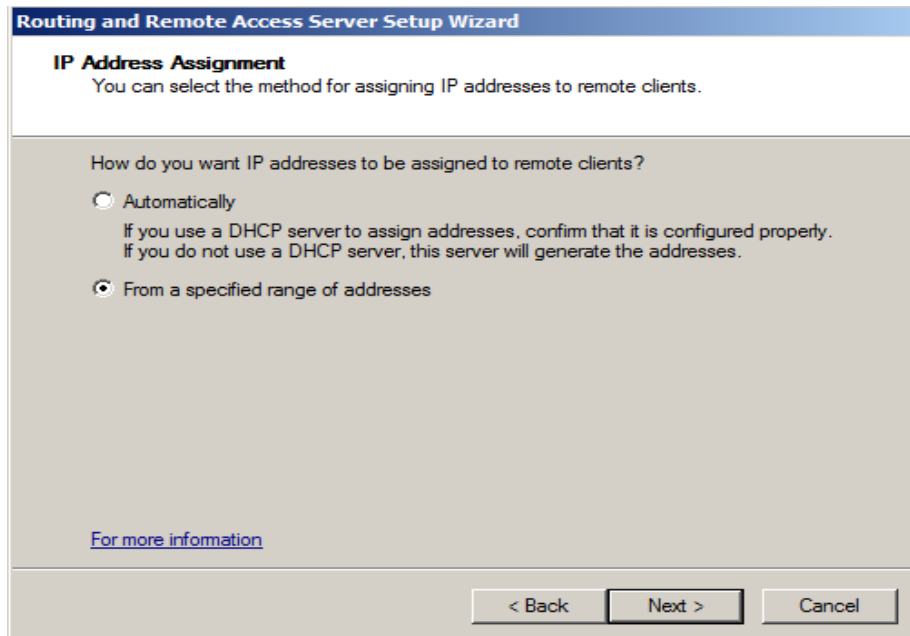
Network interfaces:

Name	Description	IP Address
LAN - Internal	Intel(R) PRO/1000 MT ...	192.168.1.1
WAN - External	Intel(R) PRO/1000 MT ...	216.1.1.1

[For more information about network interfaces.](#)
[For more information about packet filtering.](#)

< Back Next > Cancel

10. Select **From a specified range of addresses** and click the **Next** button.



Routing and Remote Access Server Setup Wizard

IP Address Assignment
You can select the method for assigning IP addresses to remote clients.

How do you want IP addresses to be assigned to remote clients?

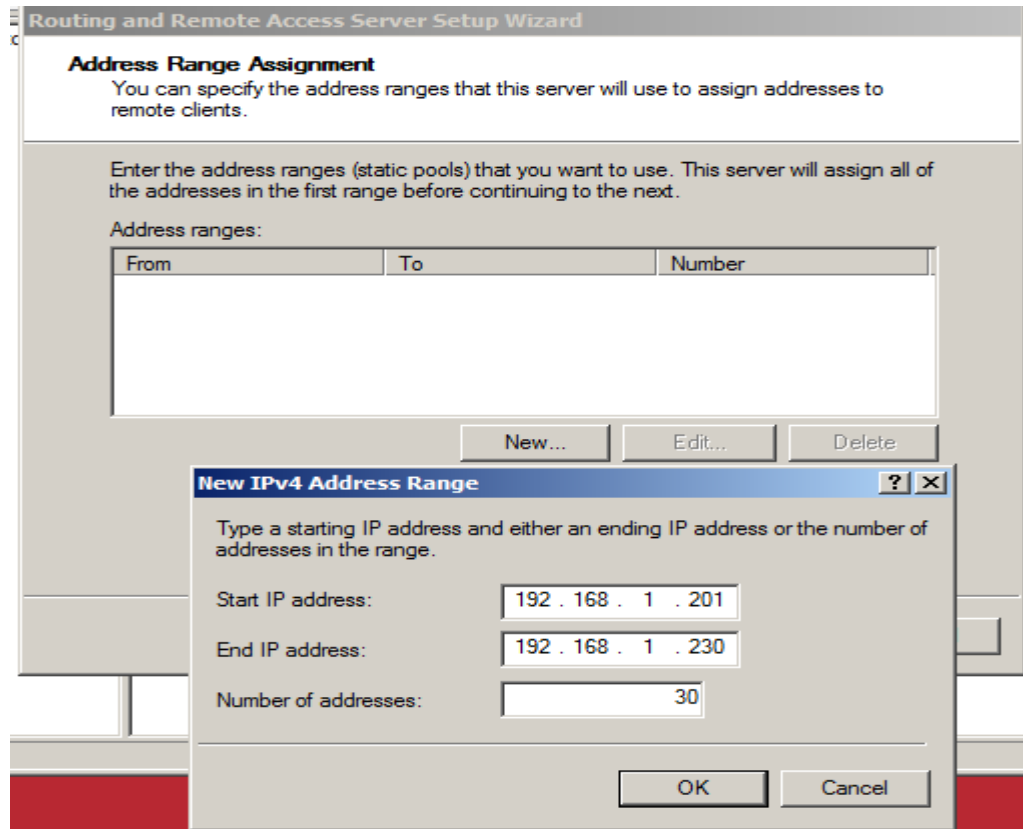
☐ Automatically
If you use a DHCP server to assign addresses, confirm that it is configured properly.
If you do not use a DHCP server, this server will generate the addresses.

☒ From a specified range of addresses

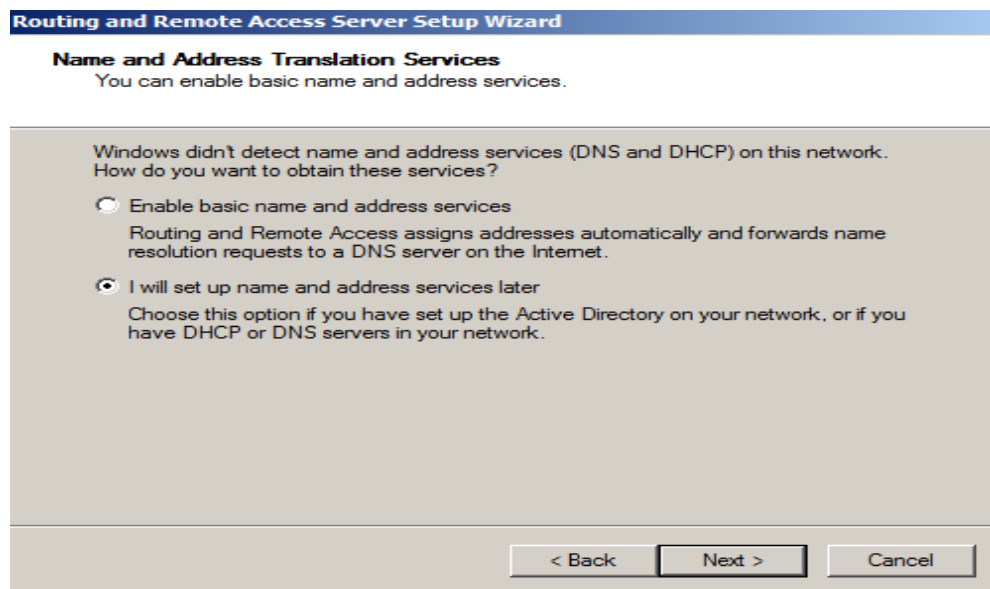
[For more information](#)

< Back Next > Cancel

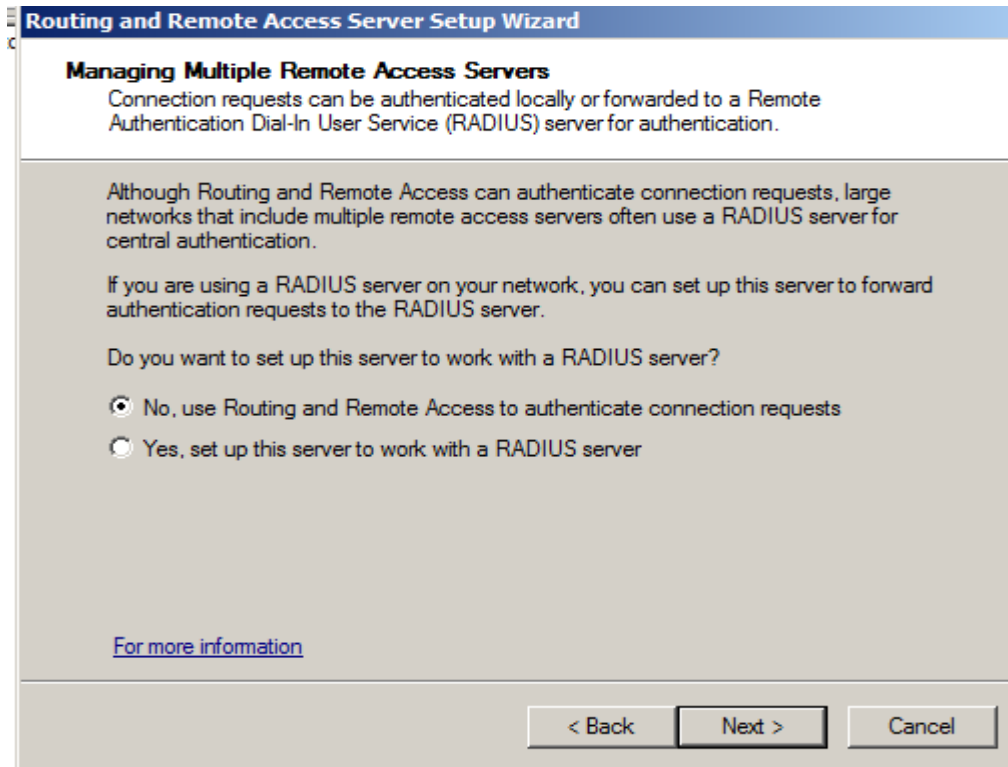
11. Click **New**. Enter the Start IP address: **192.168.1.201** and the End IP address: **192.168.1.230**. Click **OK** and click **Next**.



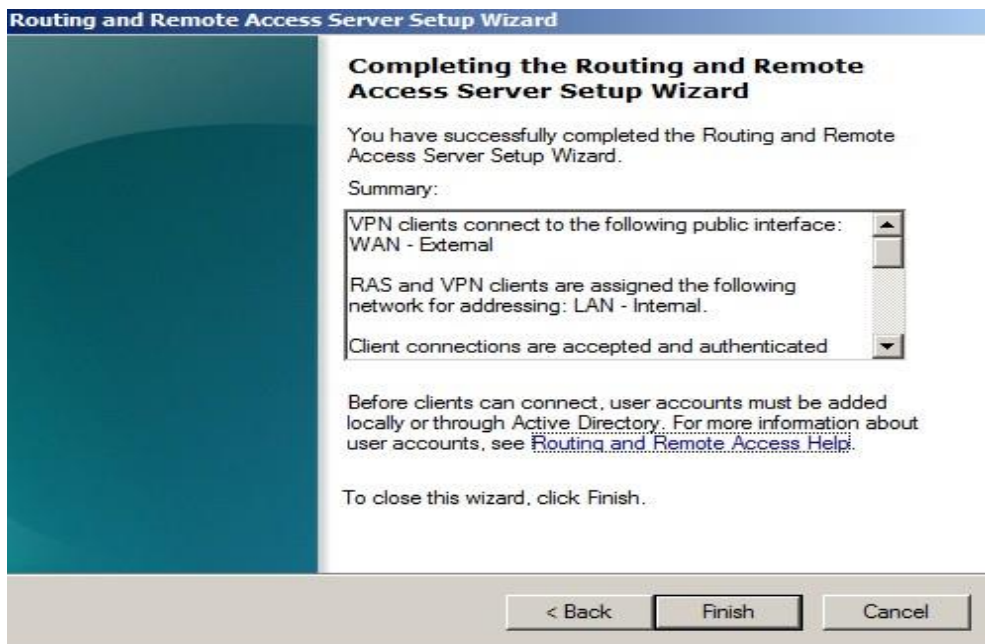
12. Select **I will set up name and address services later** and click the **Next** button.



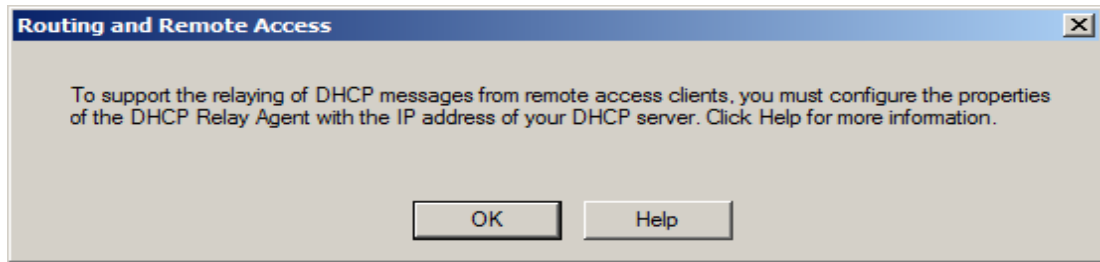
13. Select **No**, use Routing and Remote Access to authenticate connection requests and click the **Next** button.



14. Click **Finish** to complete the setup of Routing and Remote Access.



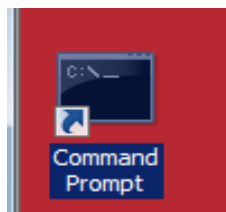
15. Click **OK** to the warning message about the DHCP relay agent.



16. The Routing and Remote Access FW (local) machine will now turn green again.

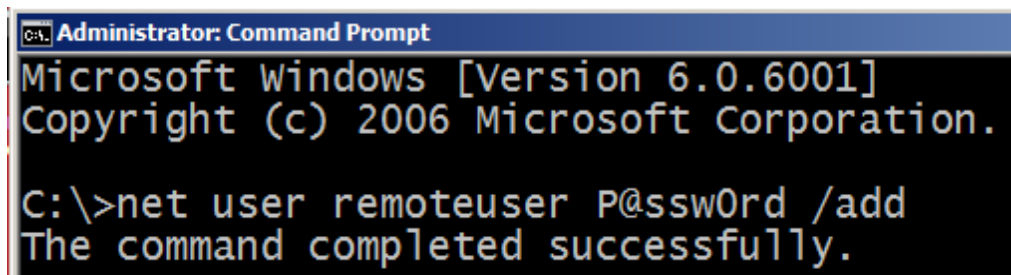


17. On the desktop, double-click the Command Prompt shortcut.

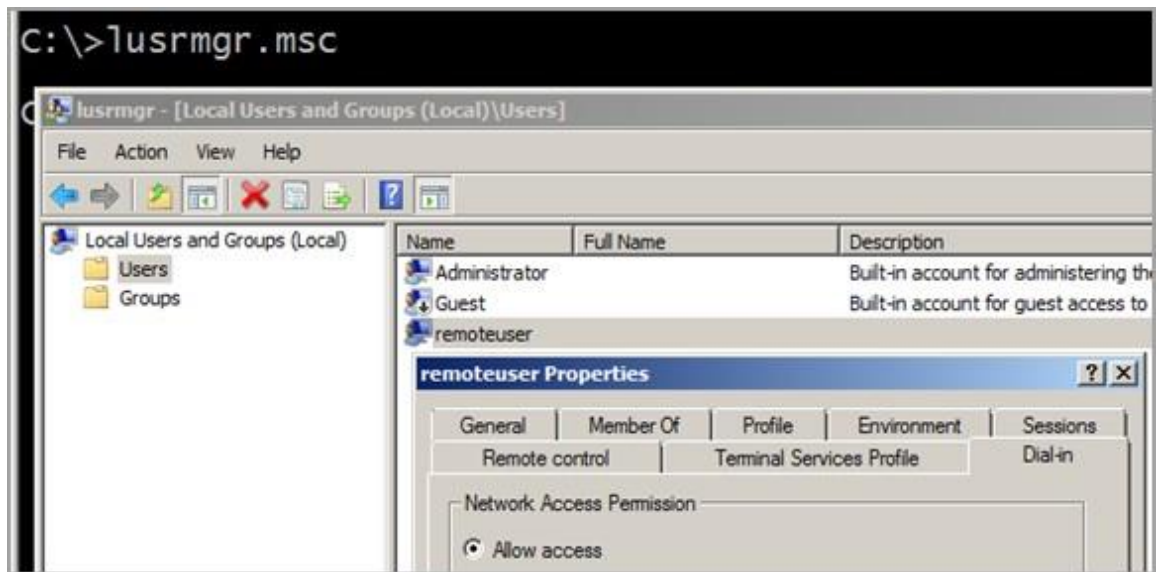


18. On the Windows 2008 Firewall, type the following to add a remote user account:

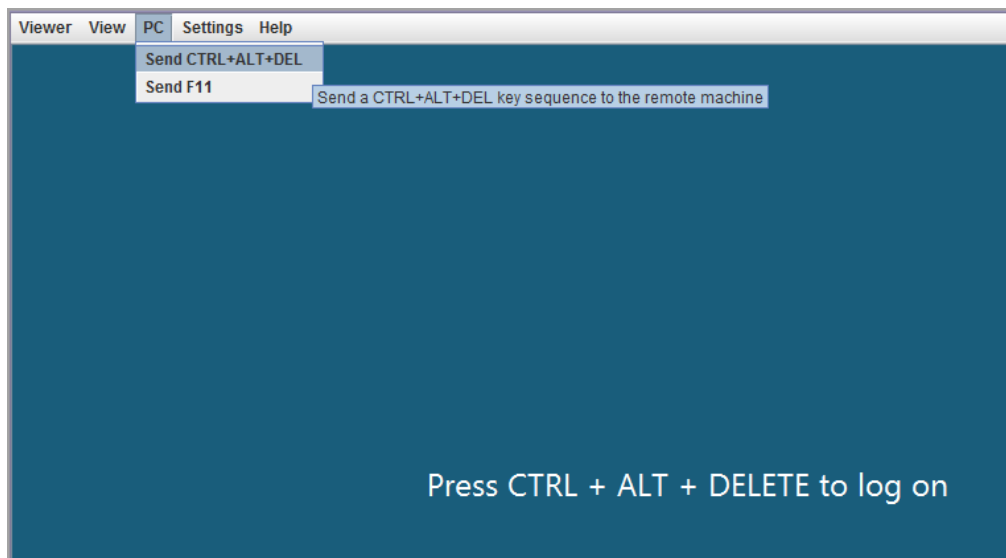
C:\>net user remoteuser P@ssw0rd /add



19. Type the following to manage the remote user: C:\>lsrmgr.msc
20. Double-click the **Users** folder. Double-click on **remoteuser**. Click the **Dial-in** tab. Click the button marked **Allow access**. Click **Apply** and then **OK**. Close the Local User Manager.



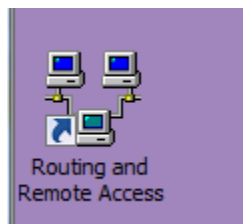
21. Click on the **Windows 2008 Sniffer** icon on the topology. Click **PC**, and then **Send Ctrl+Alt+Del** in the top-left corner of the screen in order to log on to the Windows 2008 server.



22. Enter **sniffer** for the Administrator password to the Windows 2008 Server.



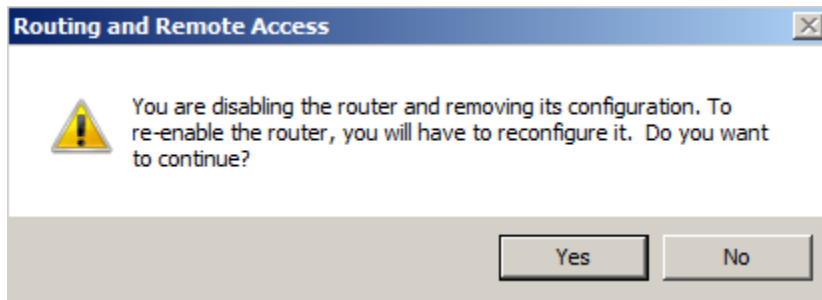
23. On the Sniffer, double-click the shortcut to **Routing and Remote Access** on the desktop.



24. Right-click on **FIREWALL2** and select **Disable Routing and Remote Access**.



25. Select **Yes** when you are asked if you want to continue.



26. Right-click on FIREWALL2 and select **Configure and Enable Routing and Remote Access**.



27. Click **Next** to the Welcome to the Routing and Remote Access Setup Wizard.



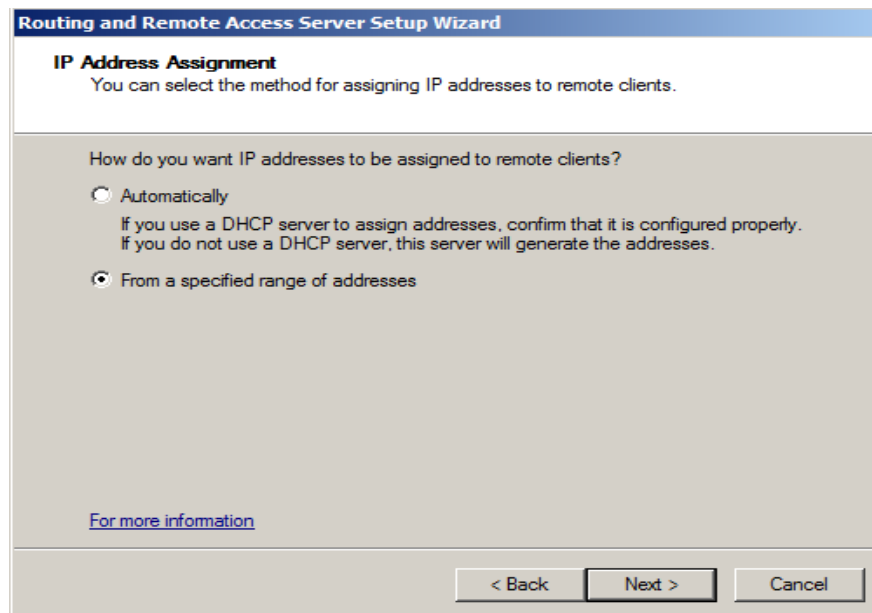
28. Choose **Secure Connection between two private networks**. Click **Next**.



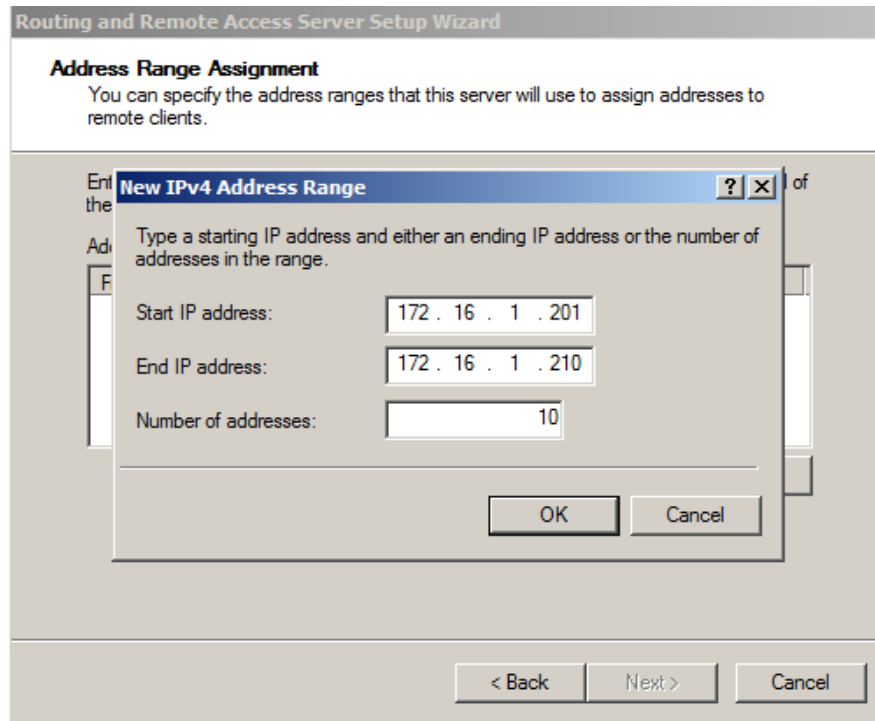
29. Leave the Demand Dial Connections selection as **Yes** and click **Next**.



30. Select **From a specified range of addresses** and click the **Next** button.



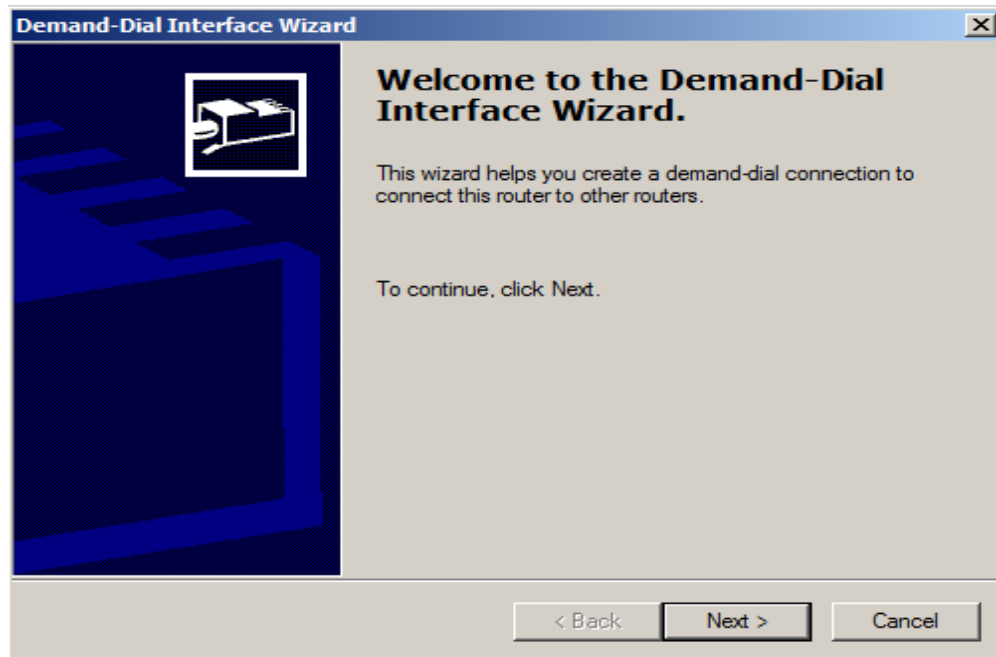
31. Click **New**. Type the Start IP address: **172.16.1.201** and the End IP address: **172.16.1.210**. Click **OK** and click **Next**.



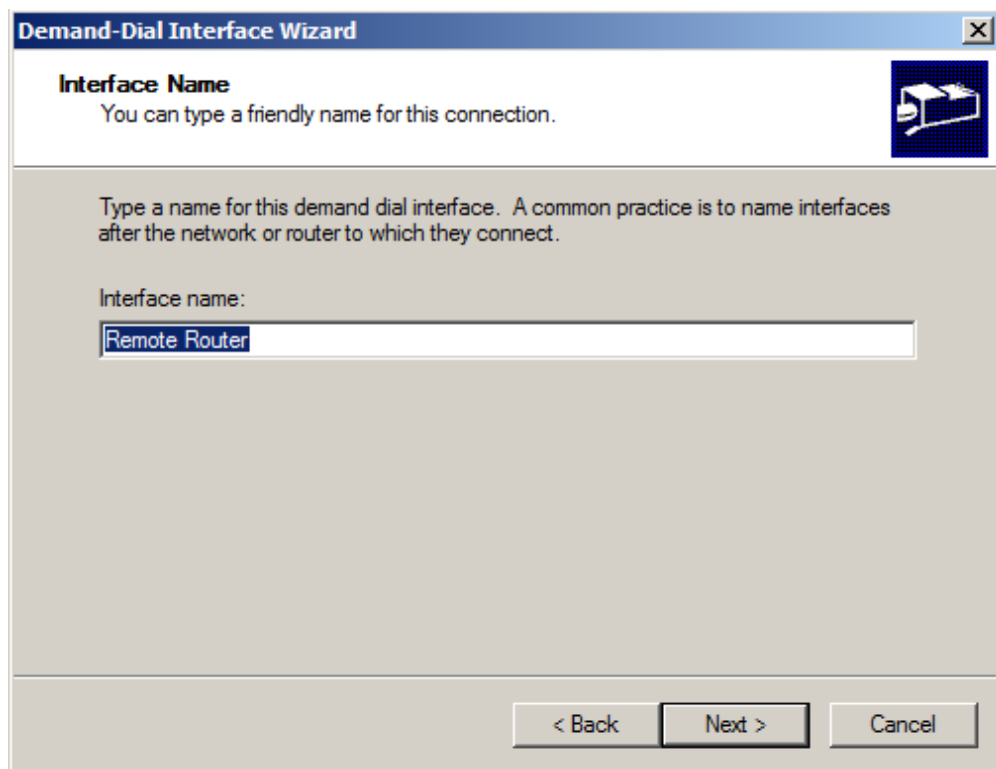
32. Click **Finish** on the Access Server Setup Wizard.



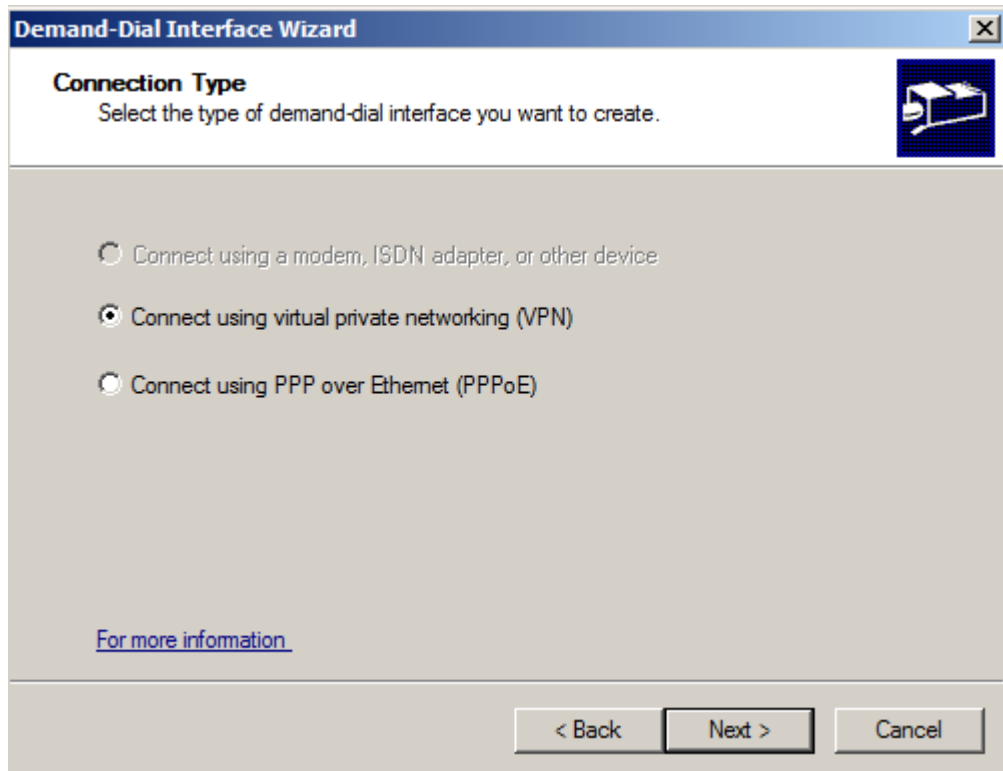
33. Click **Next** at the **Welcome to the Demand Dial Interface Wizard** screen.



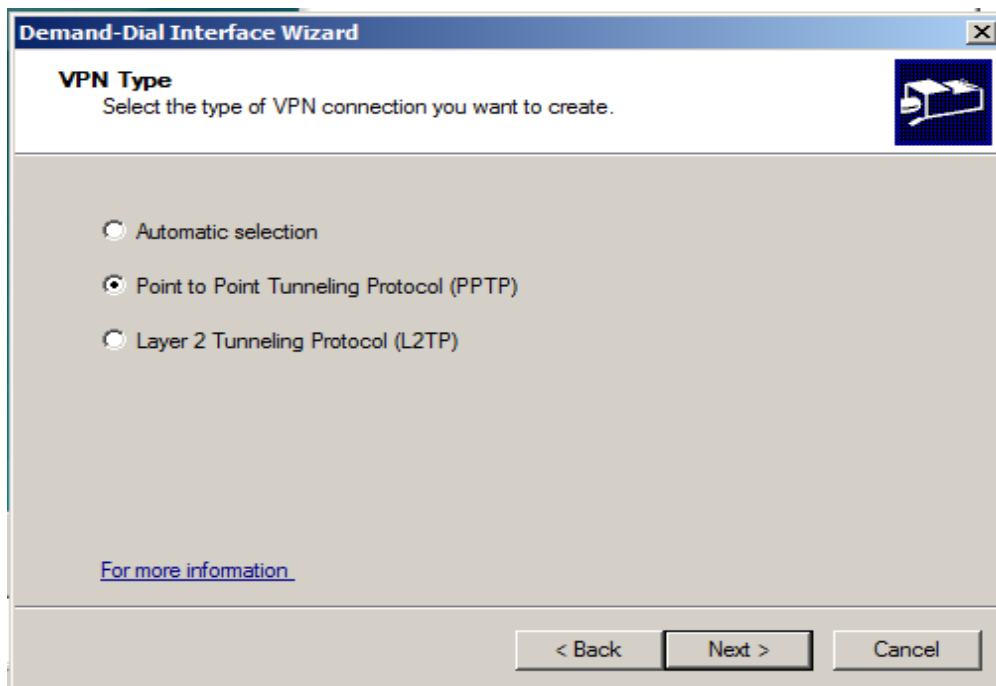
34. Click **Next** at the **Interface Name** Screen.



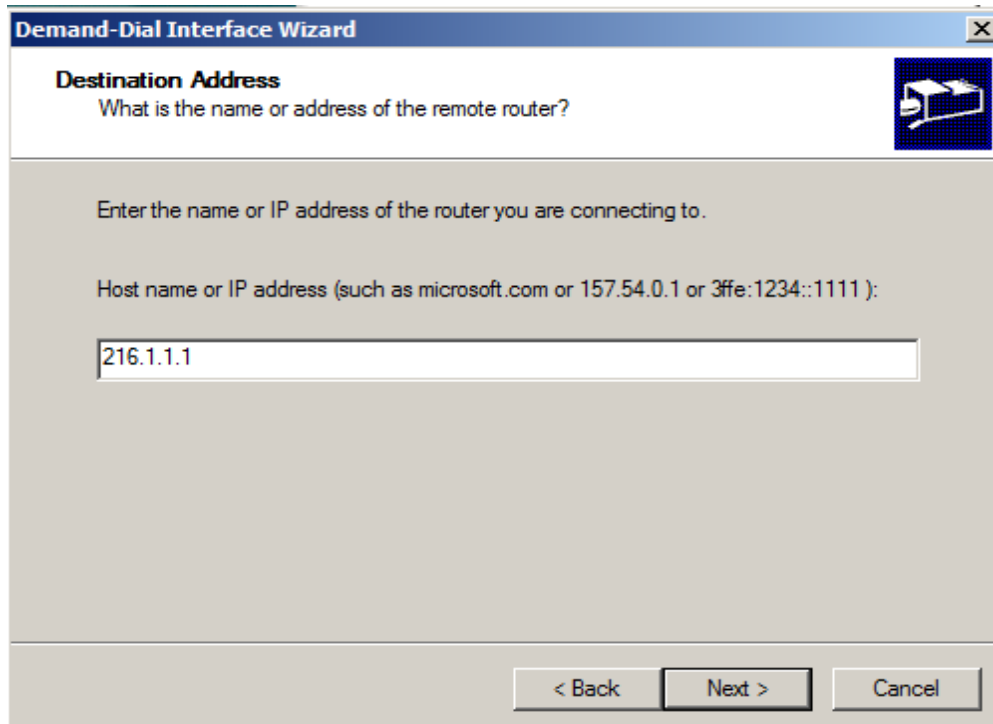
35. Select **Connect using virtual private networking (VPN)** and click **Next**.



36. Select **Point to Point Tunneling Protocol (PPTP)** and click **Next**.



37. In the **Destination Address**, type **216.1.1.1**, and click Next.



The screenshot shows the 'Demand-Dial Interface Wizard' window, specifically the 'Destination Address' step. The title bar reads 'Demand-Dial Interface Wizard'. Below the title bar, the section is titled 'Destination Address' with a subtitle 'What is the name or address of the remote router?'. A text box contains the IP address '216.1.1.1'. At the bottom, there are three buttons: '< Back', 'Next >', and 'Cancel'.

Demand-Dial Interface Wizard

Destination Address
What is the name or address of the remote router?

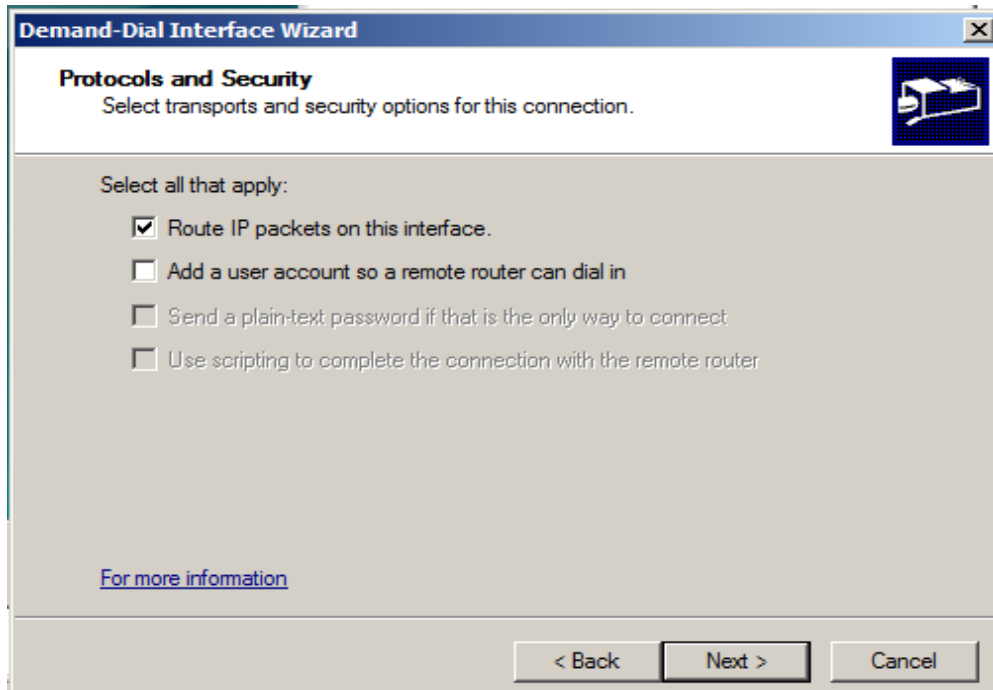
Enter the name or IP address of the router you are connecting to.

Host name or IP address (such as microsoft.com or 157.54.0.1 or 3ffe:1234::1111):

216.1.1.1

< Back Next > Cancel

38. Click **Next** to **Route IP Packets on this Interface**.



The screenshot shows the 'Demand-Dial Interface Wizard' window, specifically the 'Protocols and Security' step. The title bar reads 'Demand-Dial Interface Wizard'. Below the title bar, the section is titled 'Protocols and Security' with a subtitle 'Select transports and security options for this connection.'. Under the heading 'Select all that apply:', there are four checkboxes. The first checkbox, 'Route IP packets on this interface.', is checked. The other three checkboxes are unchecked. At the bottom, there are three buttons: '< Back', 'Next >', and 'Cancel'. A link 'For more information' is also present.

Demand-Dial Interface Wizard

Protocols and Security
Select transports and security options for this connection.

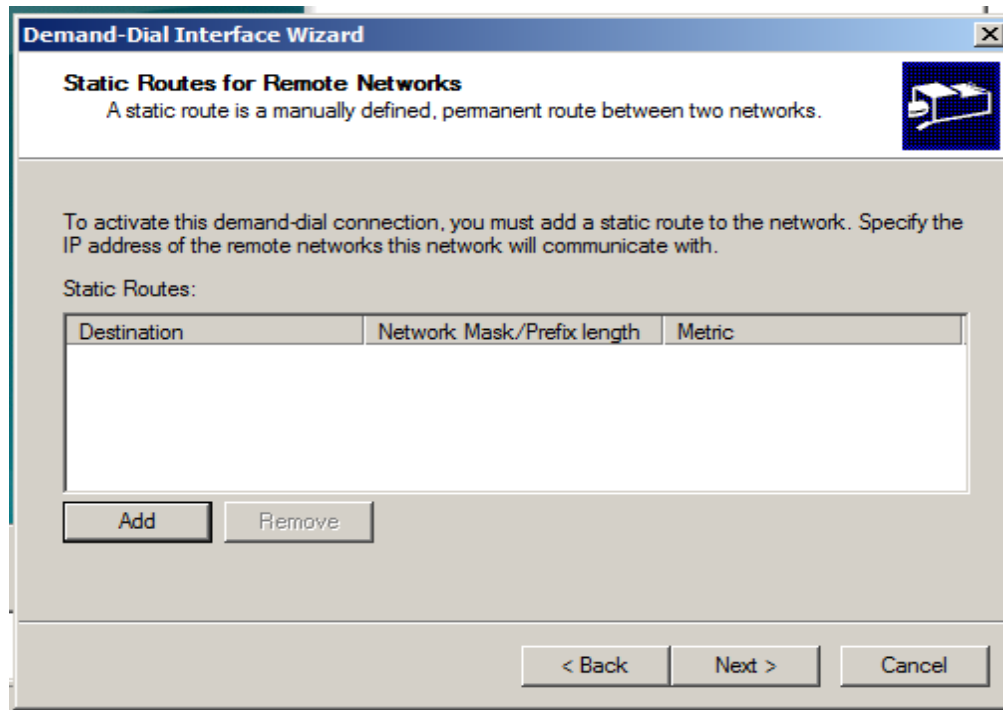
Select all that apply:

- ☒ Route IP packets on this interface.
- ☐ Add a user account so a remote router can dial in
- ☐ Send a plain-text password if that is the only way to connect
- ☐ Use scripting to complete the connection with the remote router

[For more information](#)

< Back Next > Cancel

39. Click **Next** at the **Static route for Remote Networks** screen. We will add the static route later.



Demand-Dial Interface Wizard

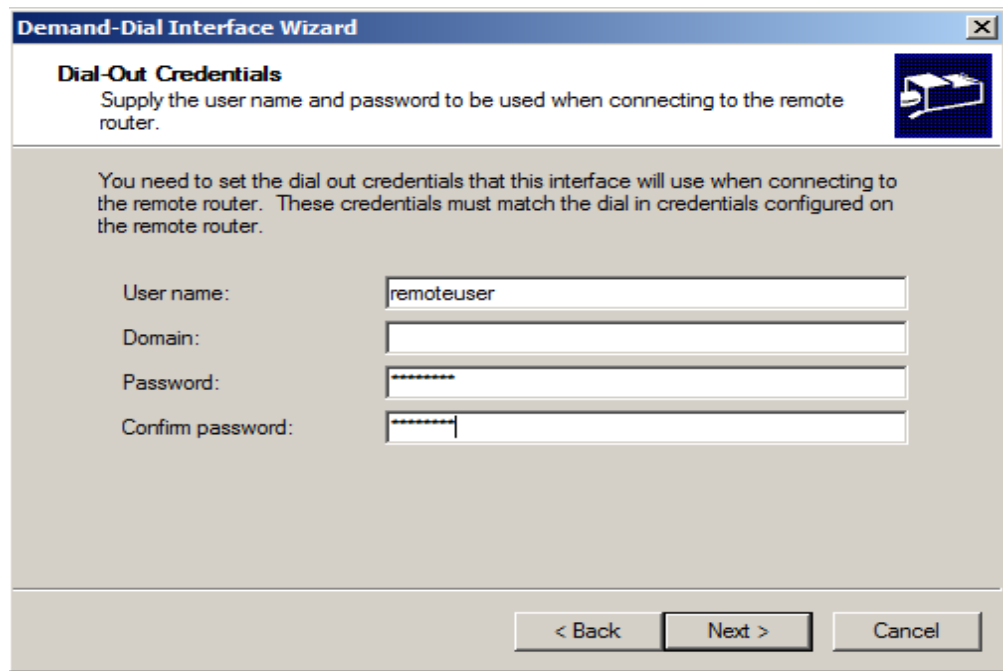
Static Routes for Remote Networks
A static route is a manually defined, permanent route between two networks.

To activate this demand-dial connection, you must add a static route to the network. Specify the IP address of the remote networks this network will communicate with.

Static Routes:

Destination	Network Mask/Prefix length	Metric

40. For the username, type **remoteuser**. Leave the domain field blank. For the password and the confirmation password, type **P@ssw0rd** and click **Next**.



Demand-Dial Interface Wizard

Dial-Out Credentials
Supply the user name and password to be used when connecting to the remote router.

You need to set the dial out credentials that this interface will use when connecting to the remote router. These credentials must match the dial in credentials configured on the remote router.

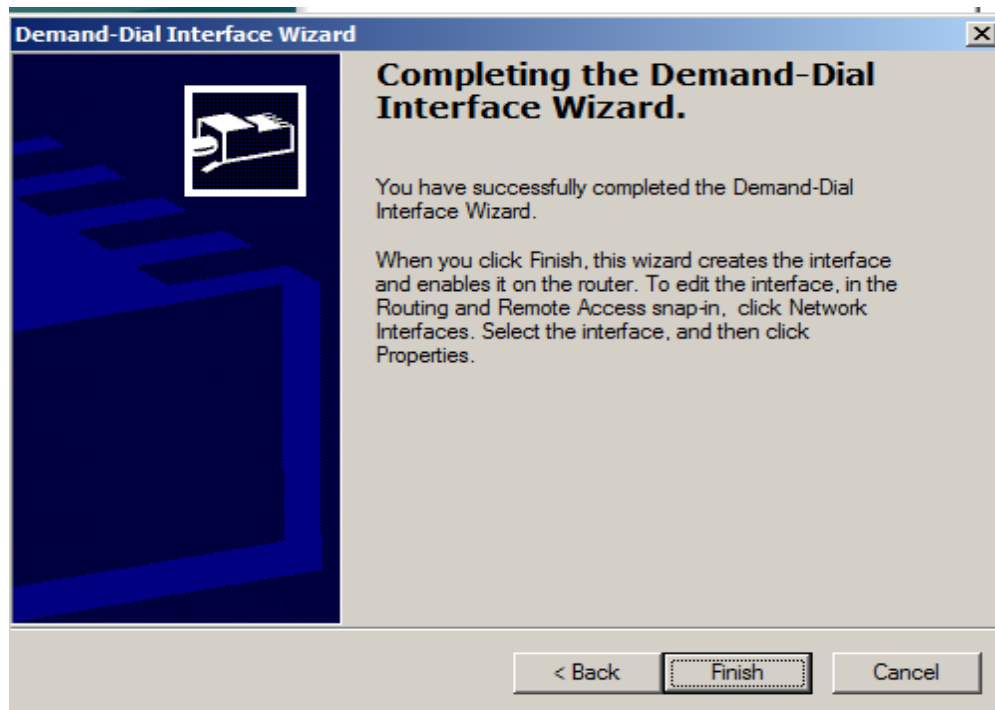
User name:

Domain:

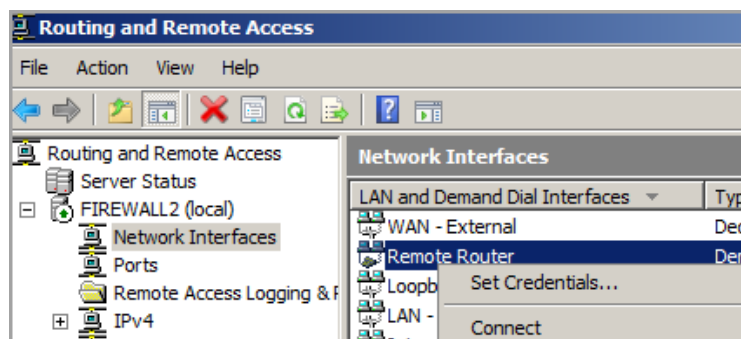
Password:

Confirm password:

41. Click **Finish** to complete the **Demand Dial Interface Wizard**.



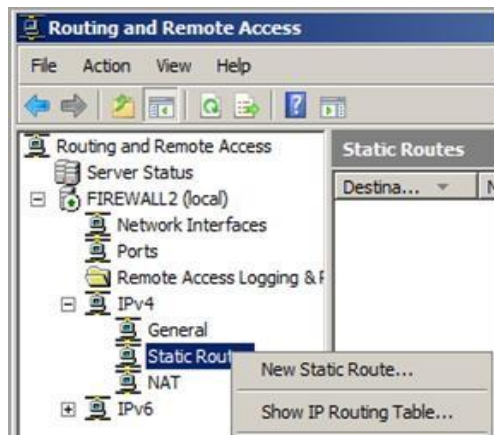
42. Expand **FIREWALL2 (local)**, click on **Network Interfaces**, Right-click on **Remote Router** and click **Connect**.



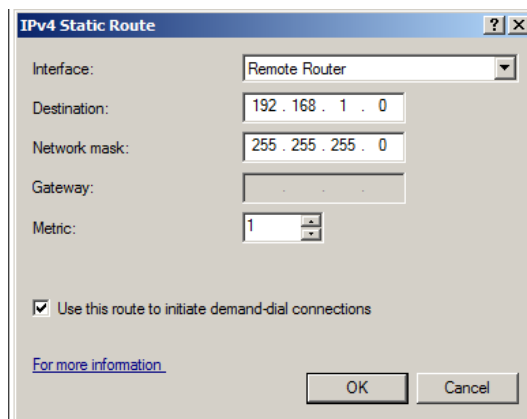
43. After a few seconds, the status of the router should change to Connected.

WAN - External	Dedicated	Enabled	Connected	Intel(R) PRO/1000 M
Remote Router	Demand-dial	Enabled	Connected	
Loopback	Loopback	Enabled	Connected	
LAN - Internal	Dedicated	Enabled	Connected	Intel(R) PRO/1000 M
Internal	Internal	Enabled	Connected	

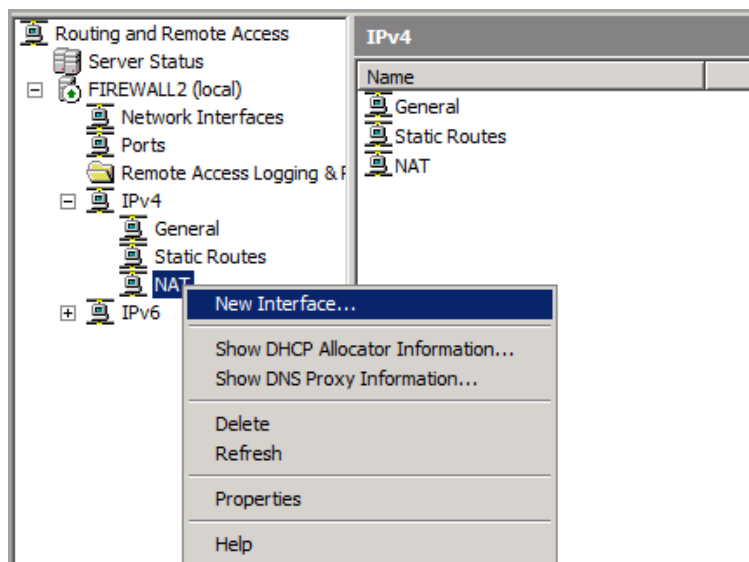
44. Expand IPv4, right-click **Static Routes** and select **New Static Route**.



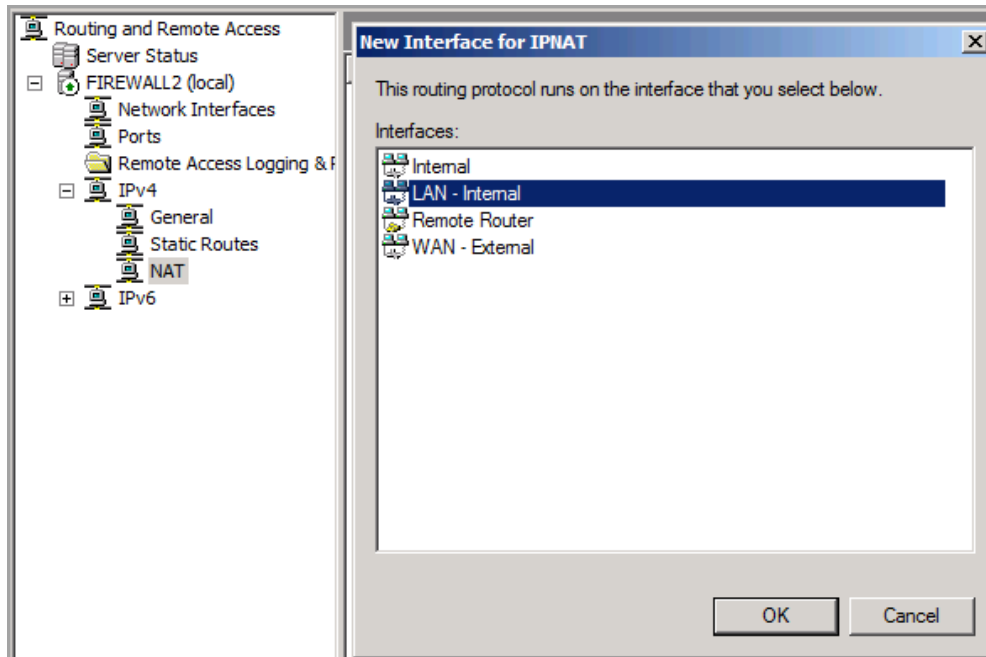
45. For Interface, select **Remote Router**, for the Destination type **192.168.1.0** and for the Network Mask, type **255.255.255.0**. Type **1** for the metric. Click OK.



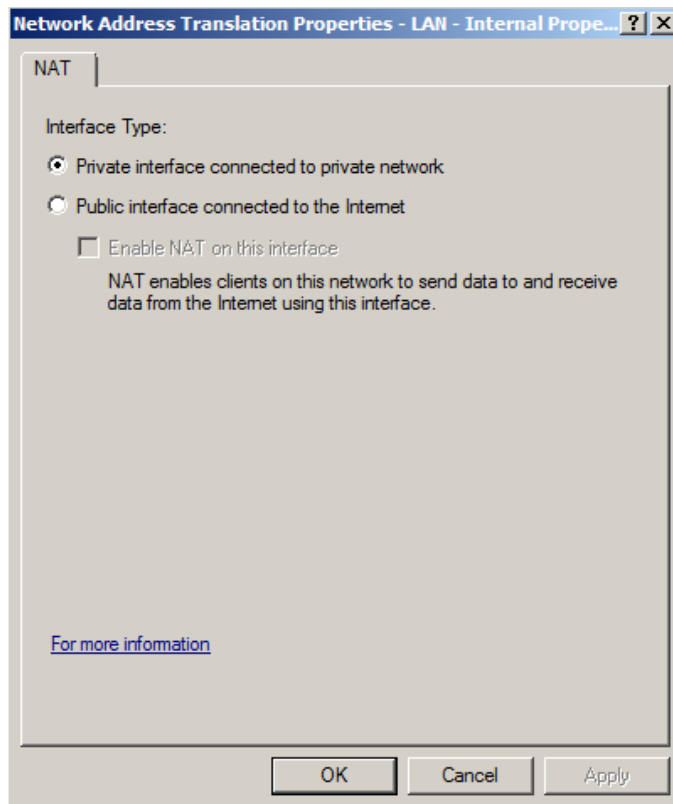
46. Under IPv4, right-click on **NAT** and select **New Interface**.



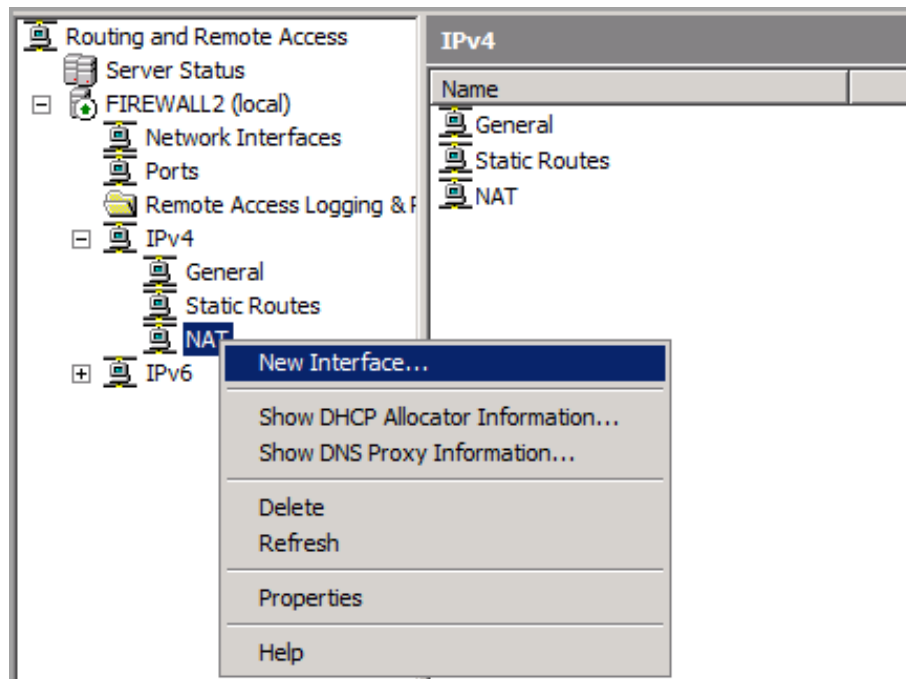
47. Select **LAN – Internal** and click **OK**.



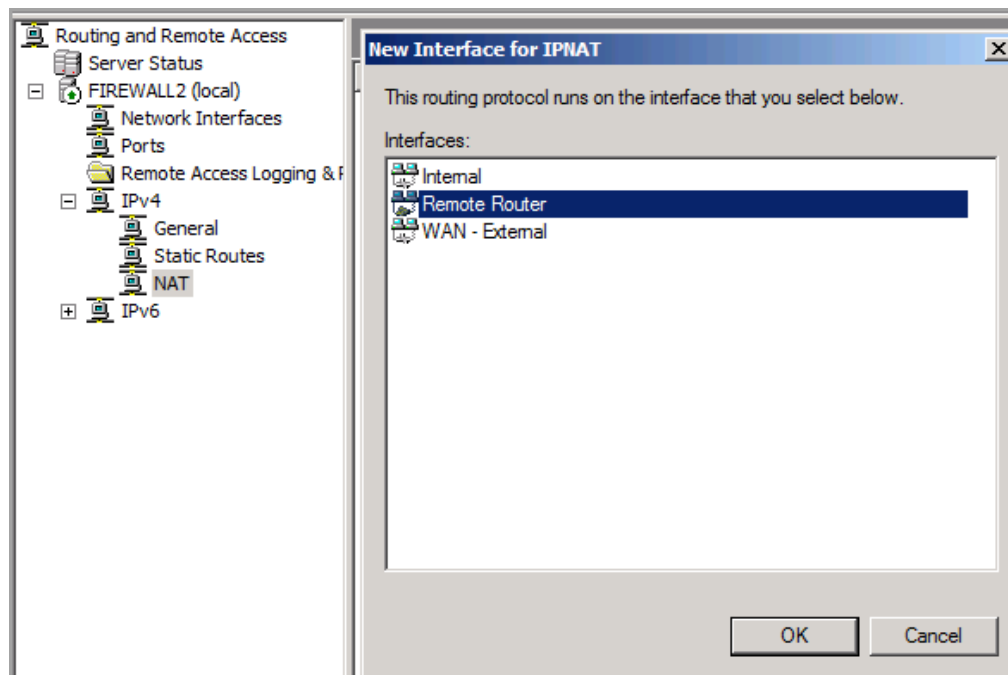
48. Click **Private interface connected to the private network** and click **OK**.



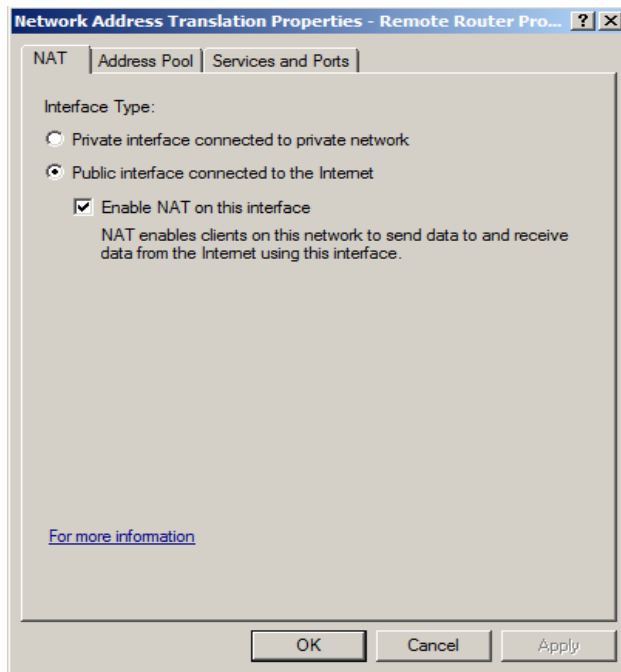
49. Under IPv4, right-click on **NAT** and select **New Interface**.



50. Select **Remote Router** and click **OK**.



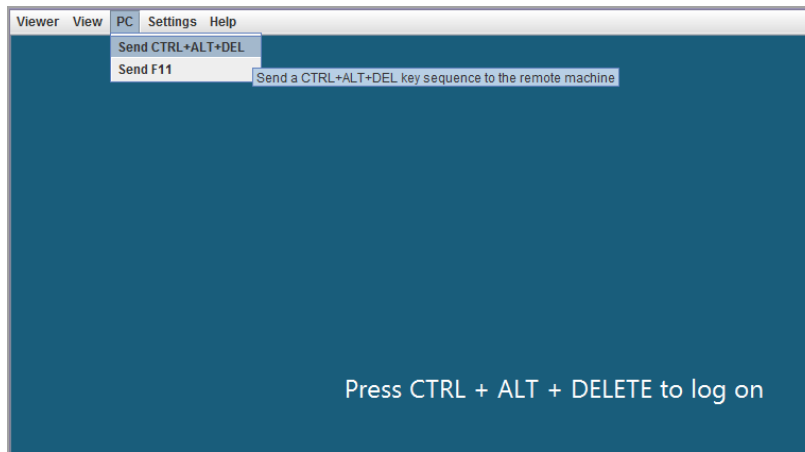
51. Click **Public interface connected to the Internet**. Leave the box checked that states **Enable NAT on this interface** and click **OK**.



52. Return to the **Windows 8 Internal Machine**. After a few minutes, the pings should respond. After you receive replies, press **Ctrl+ C** to stop the continuous ping.

```
Request timed out.
Request timed out.
Request timed out.
Request timed out.
Request timed out.
Request timed out.
Request timed out.
Request timed out.
Request timed out.
Request timed out.
Reply from 192.168.1.100: bytes=32 time=1ms TTL=127
Reply from 192.168.1.100: bytes=32 time<1ms TTL=127
Reply from 192.168.1.100: bytes=32 time<1ms TTL=127
Reply from 192.168.1.100: bytes=32 time<1ms TTL=127
Reply from 192.168.1.100: bytes=32 time<1ms TTL=127
Reply from 192.168.1.100: bytes=32 time<1ms TTL=127
Reply from 192.168.1.100: bytes=32 time<1ms TTL=127
Reply from 192.168.1.100: bytes=32 time<1ms TTL=127
Reply from 192.168.1.100: bytes=32 time<1ms TTL=127
Reply from 192.168.1.100: bytes=32 time<1ms TTL=127
Reply from 192.168.1.100: bytes=32 time<1ms TTL=127
Reply from 192.168.1.100: bytes=32 time<1ms TTL=127
Reply from 192.168.1.100: bytes=32 time<1ms TTL=127
Reply from 192.168.1.100: bytes=32 time<1ms TTL=127
Reply from 192.168.1.100: bytes=32 time<1ms TTL=127
```

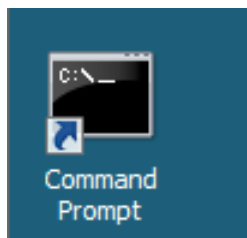

53. Click on the **Internal Windows 2008 Server** icon in the topology. Click **PC**, and then **Send Ctrl+Alt+Del** in the top-left corner of the screen in order to log on to the Windows 2008 server.



54. Enter **P@ssw0rd** for the Administrator password on the Windows 2008 Server Internal Machine.



55. Double-click on the shortcut to the Command Prompt on the desktop.



56. Type the following command:

C:\>ping 172.16.1.175

```
C:\>ping 172.16.1.175

Pinging 172.16.1.175 with 32 bytes of data:
Request timed out.
Request timed out.
Request timed out.
Request timed out.

Ping statistics for 172.16.1.175:
    Packets: Sent = 4, Received = 0, Lost = 4 (100% loss),
```

We have configured the VPN, so the branch users can access the resources on the main office's internal network. We are not allowing internal machines on the main office site to connect back to the workstations (Windows 8 and Ubuntu) on the branch site. That can be accomplished via static routes or by creating another VPN connection.

2.2 Conclusion

Setting up a VPN between a main office and a branch office can be beneficial because users can share resources and companies can avoid the cost of duplicate infrastructure. The encrypted connection will help prevent attackers on the Internet from examining traffic between the main and the branch offices. In some cases, depending on the configuration, static routes may need to be configured to allow clients on different internal networks to access machines on other internal subnets, if necessary.

2.3 Discussion Questions

1. What benefits does a VPN provide?

Ans: VPN is a Virtual Private Network it has several benefits To make it more difficult for hackers to intercept on your communications, VPNs encrypt all traffic between your device and the VPN server.

2. Do you use a Public or Private IP address when connecting to a VPN server?

Ans: Normally, you will use a private IP address that the VPN server has given you when connecting to it. Usually hidden from the public eye, this private IP address is used to create a secure connection between your device and the VPN server.

3. What does a successful ping indicate?

Ans: A successful ping indicates that there's a network connection between the source and destination devices, and that the destination device is responding to ICMP requests. This can be useful for testing network connectivity and troubleshooting network issues.

4. What does a request time out indicate?

Ans: request time out indicates that the destination device didn't respond to the ICMP request within a certain period.



3 Using Main Office Services from the Branch Location

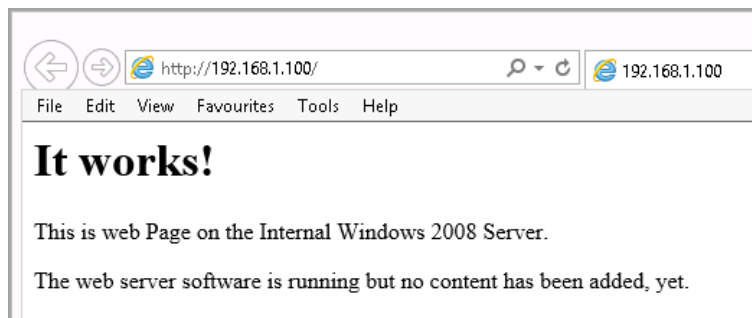
Now that we have successfully connected the branch office to the VPN server at the main office, branch users can access some of the company's internal resources, all over a secure connection. In this scenario, the workstations will still only have a single IP address. The VPN connection between the servers provides the connectivity.

3.1 Using Services

1. On the **Windows 8 Internal Machine**, double-click on the **Internet Explorer** shortcut on the desktop.



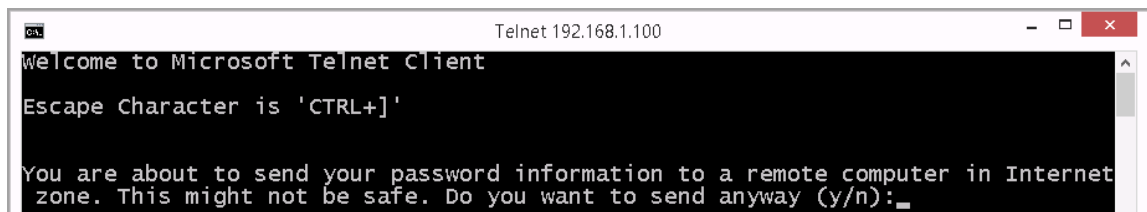
2. Type **http://192.168.1.100** in the URL bar to connect to the internal web site.



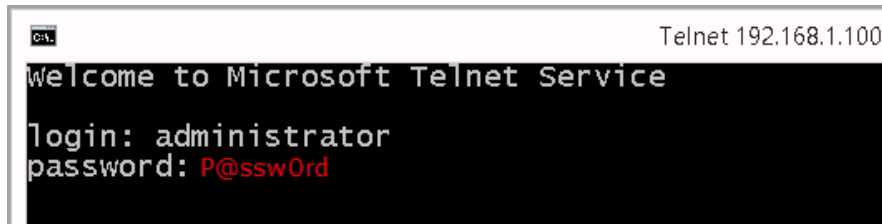
3. Open a command prompt and type the following command to telnet to Windows 2008 Internal Machine:
C:\>telnet 192.168.1.100

```
C:\>telnet 192.168.1.100
```

4. Type **n** to the message, *"Do you want to send anyway?"*



5. Type **administrator** for the username and **P@ssw0rd** for the password.



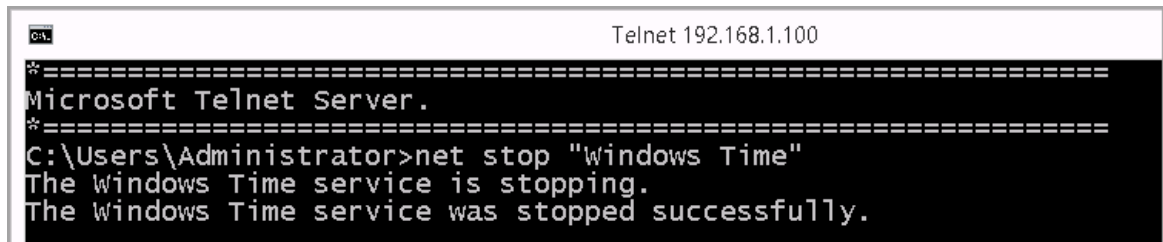
```

C:\> Telnet 192.168.1.100

Welcome to Microsoft Telnet Service

login: administrator
password: P@ssw0rd
  
```

6. Type the following command to stop the Windows Time service:
C:\Users\Administrator>net stop "Windows Time"



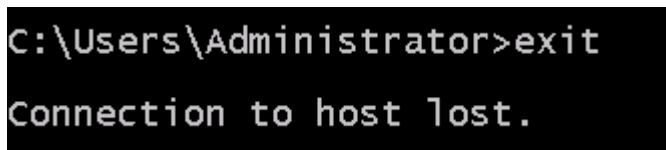
```

C:\> Telnet 192.168.1.100

Microsoft Telnet Server.

C:\Users\Administrator>net stop "Windows Time"
The Windows Time service is stopping.
The Windows Time service was stopped successfully.
  
```

7. Type **exit** to leave the telnet session.
C:\Users\Administrator>exit
Close the Administrator Command prompt.

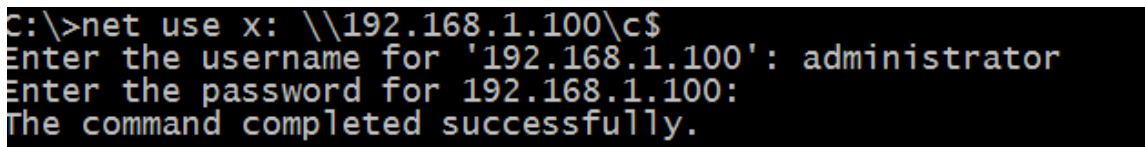


```

C:\Users\Administrator>exit

Connection to host lost.
  
```

8. Open another command prompt and type the following command:
C:\>net use x: [\\192.168.1.100\c\\$](#)
When you are asked to enter the user name, type **administrator**
When you are asked for the password, type **P@ssw0rd**



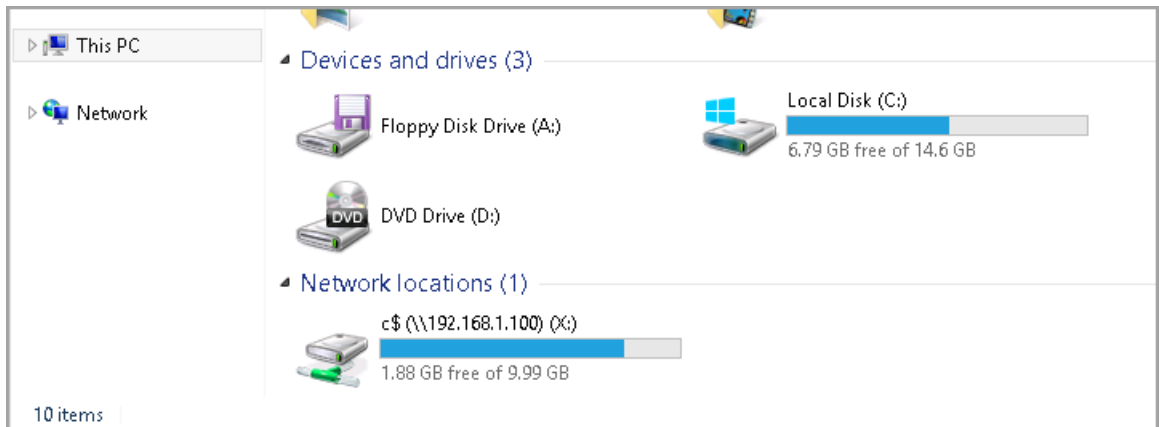
```

C:\>net use x: \\192.168.1.100\c$
Enter the username for '192.168.1.100': administrator
Enter the password for 192.168.1.100:
The command completed successfully.
  
```

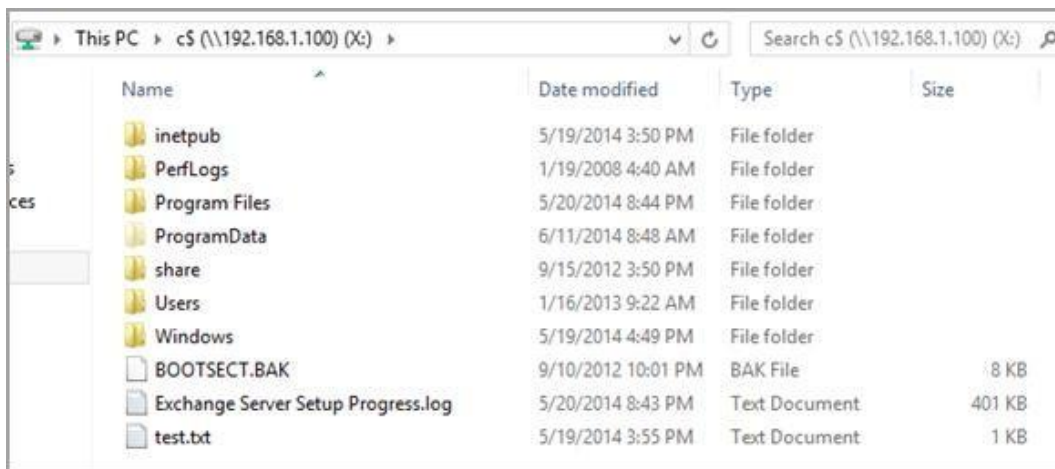
9. Click on the File Explorer Folder.



10. Scroll down and double-click the Network Locations link, **c\$ (\\192.168.1.100)(X:).**



11. View the C: Drive of the Remote Computer.



12. Close all open windows and PC Viewers. End the reservation.

3.1 Conclusion

In this section of the lab, we connected to the resources on the internal network, including an internal website, a share on the Domain Controller, and used telnet internally. VPN connections allow users from a branch office to use resources as if they were on the physical network, all over an encrypted connection on the Internet.

3.1 Discussion Questions

1. What is the command to map a drive?
Ans: The command used to map a drive is `z:\\computer\\folder`.
2. How can you view a mapped drive?
Ans: To view a map drive command is `-net use`.
3. What is the command to stop the Windows Time Service?
Ans: Enter Windows + R and type `services.msc`
4. What command will allow you to leave a telnet session?
Ans: The command used to leave a telnet session is `telnet> close`.

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<http://lifelacker.com/5940565/why-you-should-start-using-a-vpn-and-how-to-choose-the-best-one-for-your-needs>
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