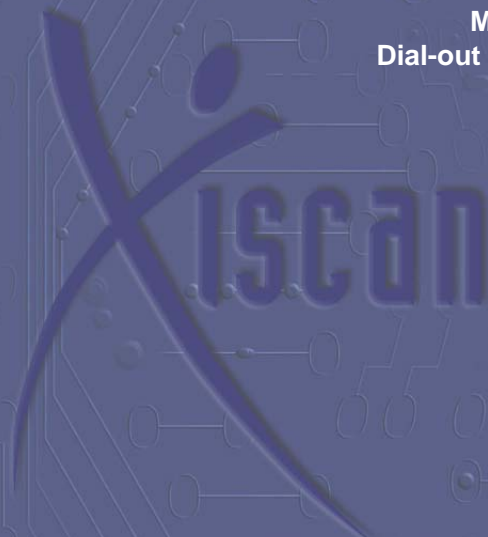


**Modem Security
Dial-out Demonstration**



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Modem Security Dial-out Demonstration

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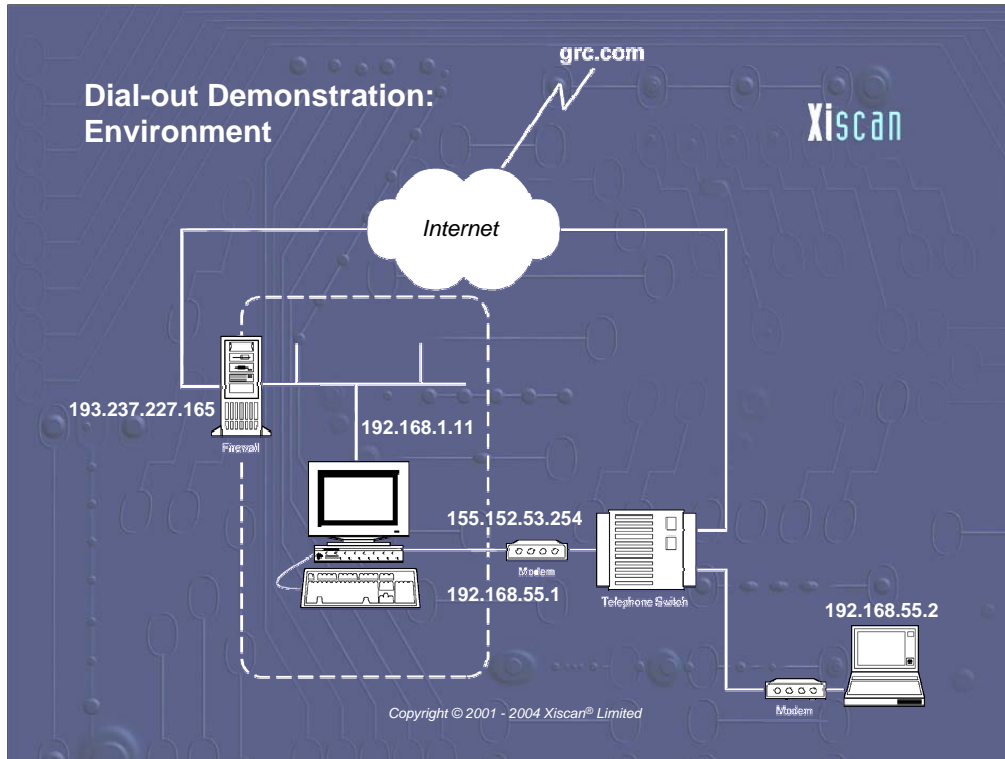
Demonstrate what a firewall gives you...

...that a modem takes away

Compare external visibility when connecting to the Internet:

- via a firewall
- via a direct dial-out connection

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Dial-out Demonstration: Terminology

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Port

An agreed, unique number used as the basis to identify and communicate with a running program
(e.g. *http runs on port 80*)

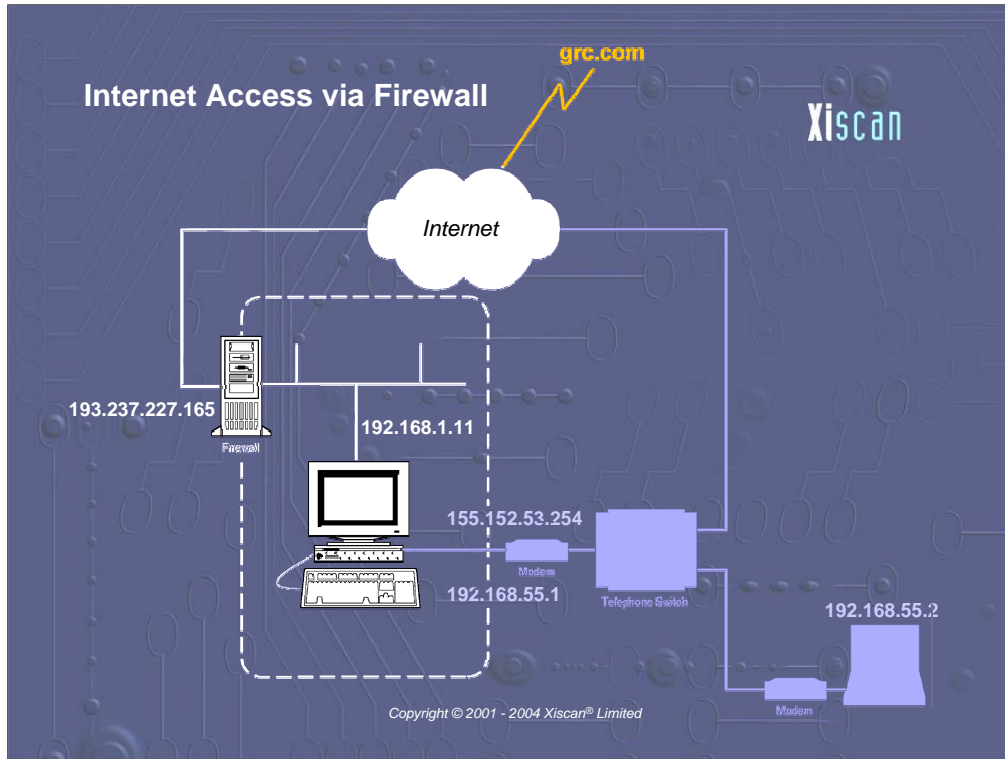
Probe

An interrogation process to determine the programs running on a system (by identifying 'open' ports)

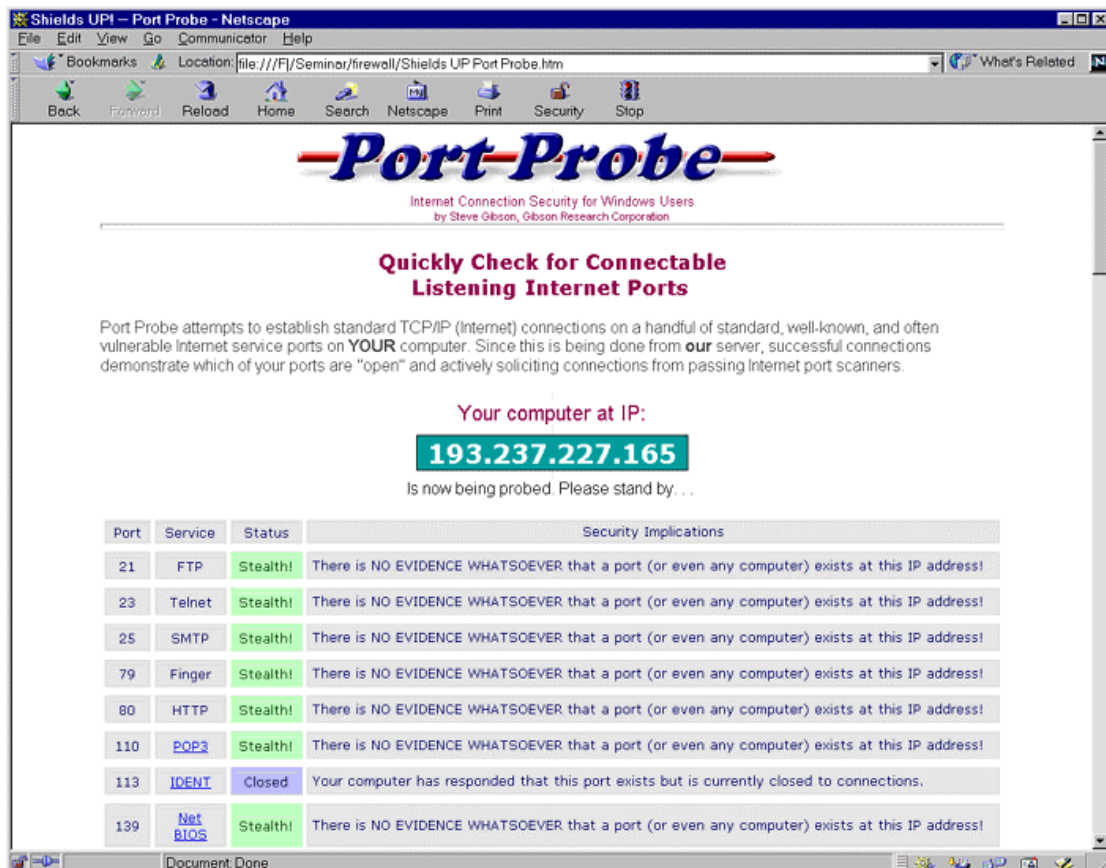
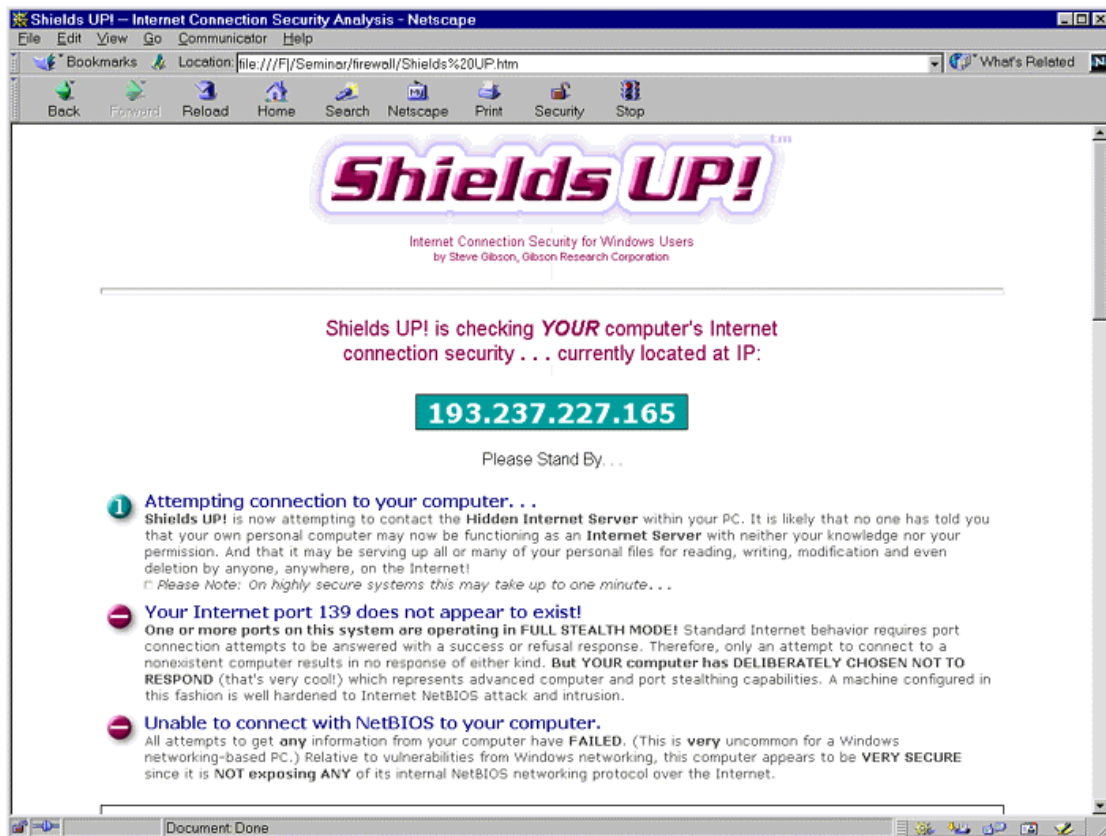
NetBios/NetBEUI

Networking services, often used as a means of sharing resources (such as printers, or disks or folders).

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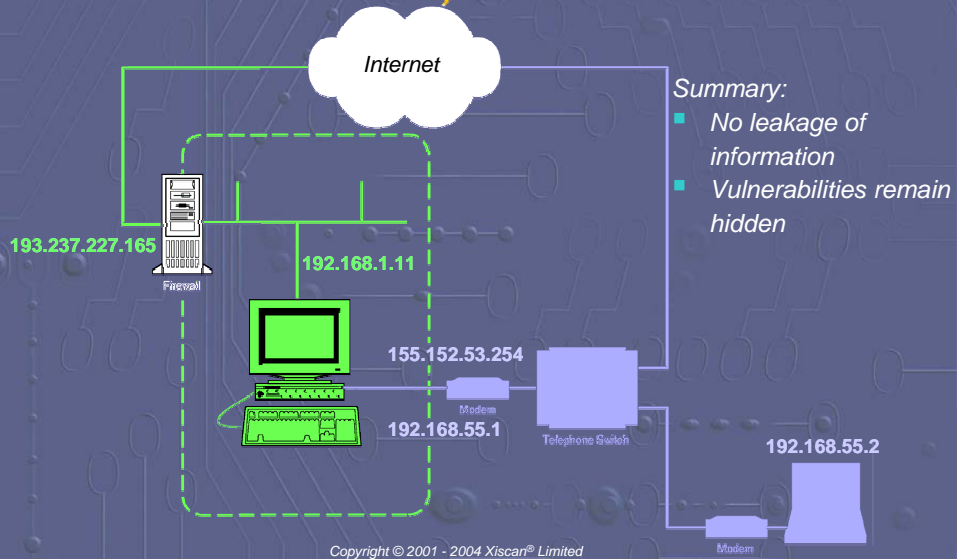
Connection through the firewall...

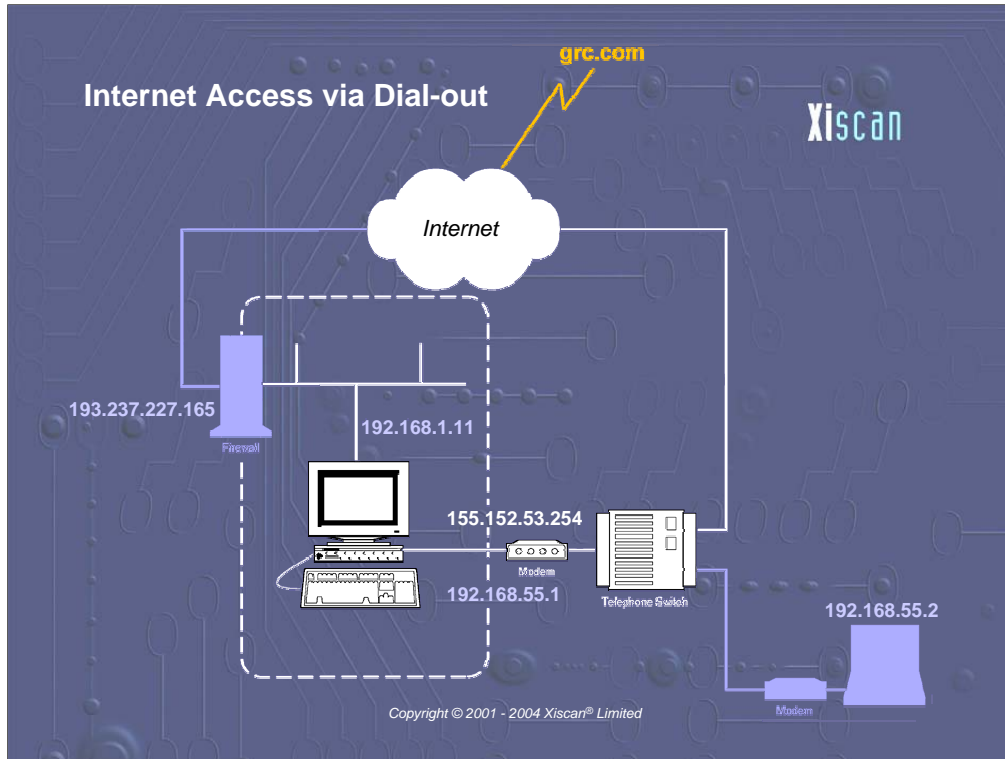


Internet Access via Firewall Conclusion

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Connection through a dial-out connection:

Shields UP! - Internet Connection Security Analysis - Netscape

File Edit View Go Communicator Help

Location: file:///F:/Seminar/nofirewall/Shields UP Internet Connection.htm

Back Forward Reload Home Search Netscape Print Security Stop

The phrase you must remember is:
"My port 139 is wide OPEN!"

- 2 Remotely connected to your NetBIOS system!**
This computer is exposing its internal NetBIOS networking protocol over the Internet. This is called "NetBIOS over TCP/IP" or "NBT" for short. This is a security risk because it gives **anyone in the world** a point of entry to your system. Connecting to your computer is **NOT** something that anyone on the Internet should be allowed to do... but we've just done it! The following pages provide information about the consequences and your options for increasing your system's security.
- 3 Your computer's name is: S&MINTRANET / MegaCorp Sales & Marketing IntraS&MINTRANET.**
This is an example of some of the information about you and your computer that is leaking out onto the Internet and is openly available to **anyone**. Such information is commonly used as a starting point for guessing your name and/or your passwords and learning more about who you are.
- 4 Your computer is exposing 3 shared resources!**
The following 3 "shares" (file system directories or printers) are being actively exposed and advertised by the **Hidden Internet Server** now running inside your computer:

Your computer's private resources are being served up to the entire Internet by software which identifies itself as: **Microsoft Windows Network.**

- S&MINTRANET — Your User Name
- S&MINTRANET — Your Computer's Name
- SALES&MARKETING — Your Workgroup
- MY DOCUMENTS **! This resource is WIDE OPEN for access by anyone in the world!**
- DOWNLOADS **! This resource is WIDE OPEN for access by anyone in the world!**
- C **! This resource is WIDE OPEN for access by anyone in the world!**

Document Done

Shields UP! - Port Probe - Netscape

File Edit View Go Communicator Help

Location: file:///F:/Seminar/nofirewall/Shields UP Port Probe.htm

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Port Probe

Internet Connection Security for Windows Users
by Steve Gibson, Gibson Research Corporation

Quickly Check for Connectable Listening Internet Ports

Port Probe attempts to establish standard TCP/IP (Internet) connections on a handful of standard, well-known, and often vulnerable Internet service ports on **YOUR** computer. Since this is being done from **our** server, successful connections demonstrate which of your ports are "open" and actively soliciting connections from passing Internet port scanners.

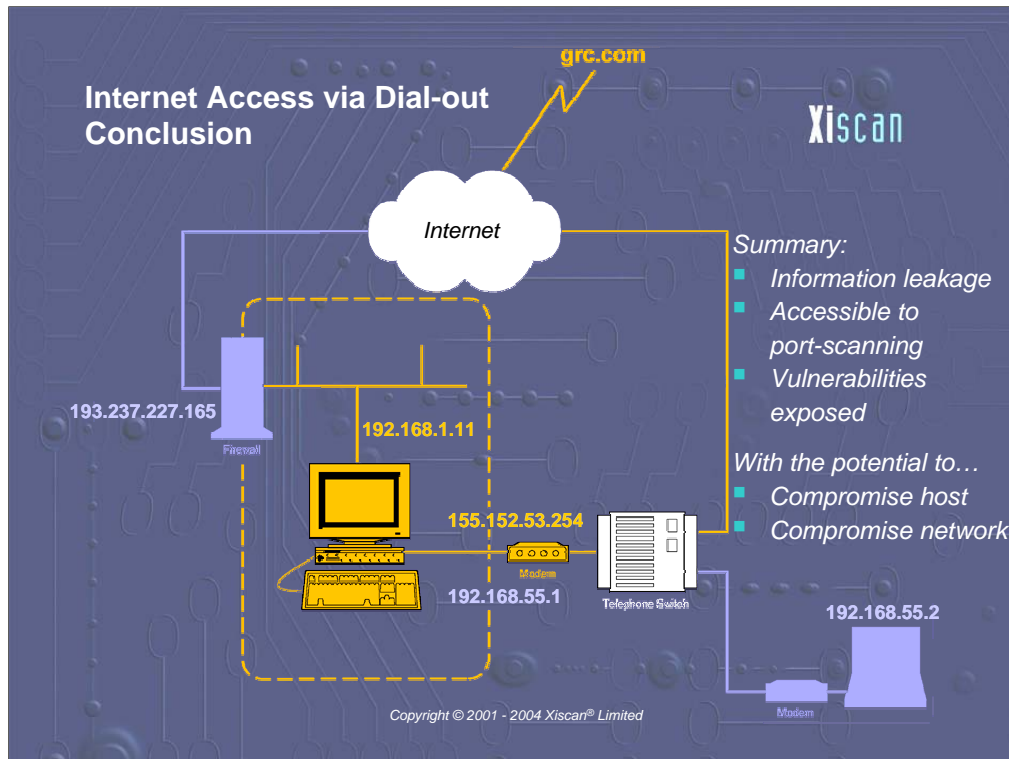
Your computer at IP:

158.152.53.244

Is now being probed. Please stand by. . .

Port	Service	Status	Security Implications
21	FTP	Closed	Your computer has responded that this port exists but is currently closed to connections.
23	Telnet	Closed	Your computer has responded that this port exists but is currently closed to connections.
25	SMTP	Stealth!	There is NO EVIDENCE WHATSOEVER that a port (or even any computer) exists at this IP address!
79	Finger	Closed	Your computer has responded that this port exists but is currently closed to connections.
80	HTTP	OPEN!	The web is so insecure these days that new security "exploits" are being discovered almost daily. There are many known problems with Microsoft's Personal Web Server (PWS) and its Frontpage Extensions that many people run on their personal machines. So having port 80 "open" as it is here causes intruders to wonder how much information you might be willing to give away.
110	POP3	Closed	Your computer has responded that this port exists but is currently closed to connections.
113	IDENT	Closed	Your computer has responded that this port exists but is currently closed to connections.
139	Net BIOS	OPEN!	As you probably know by now, the NetBIOS File Sharing port is the single largest security hole for networked Windows machines. The payoff from finding open Windows shares is so big that many scanners have been written just to find open ports like this one. Closing it should be a priority for

Document Done



What kind of information leaks out?:

- User name
- Computer name
- Workgroup
- Organisation
- Shared directories
- Network protocols