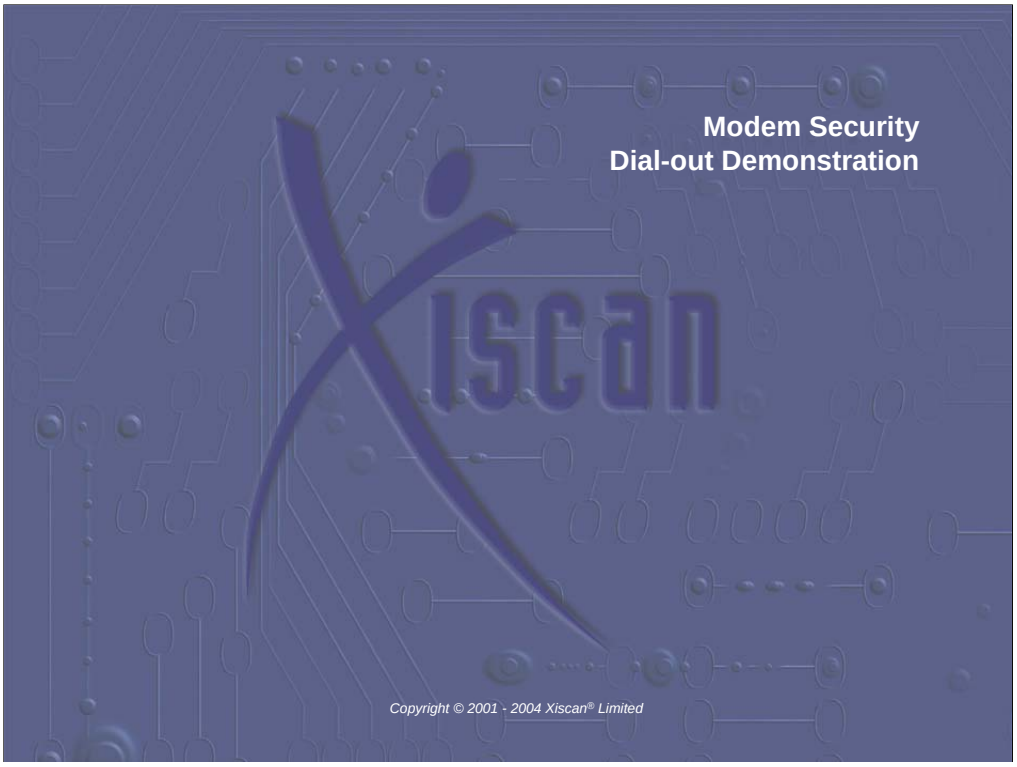
Modem Security
Dial-out Demonstration
Xiscan
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Modem Security
Dial-out Demonstration

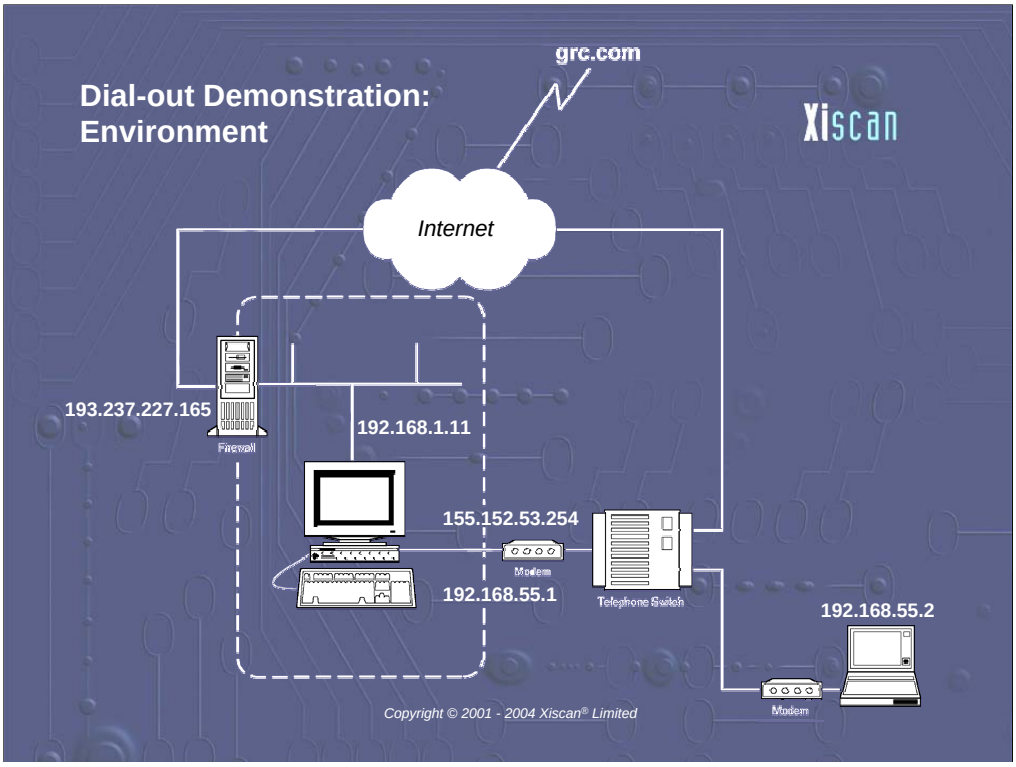
Xiscan

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


Dial-out Demonstration:
Environment
grc.com
Xiscan
Internet
193.237.227.165
Firewall
192.168.1.11
155.152.53.254
Modem
192.168.55.1
Telephone Switch
192.168.55.2
Modem
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Dial-out Demonstration: Terminology

Xiscan

Port

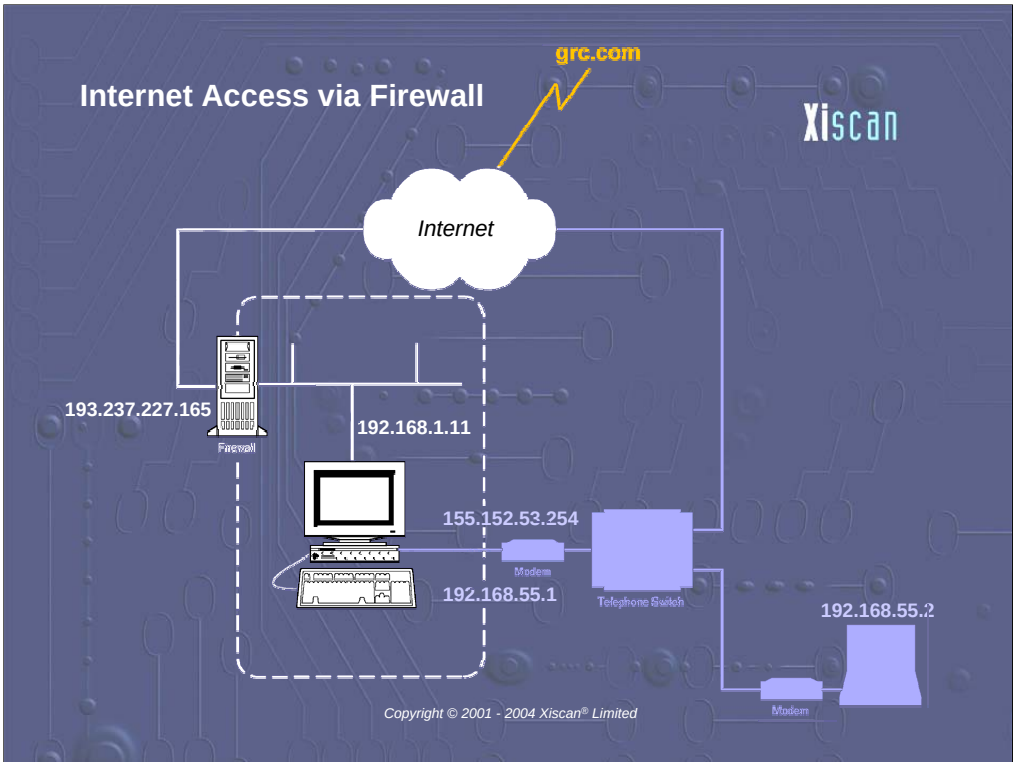
An agreed, unique number used as the basis to identify and communicate with a running program
(e.g. http runs on port 80)

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).


Internet Access via Firewall
grc.com
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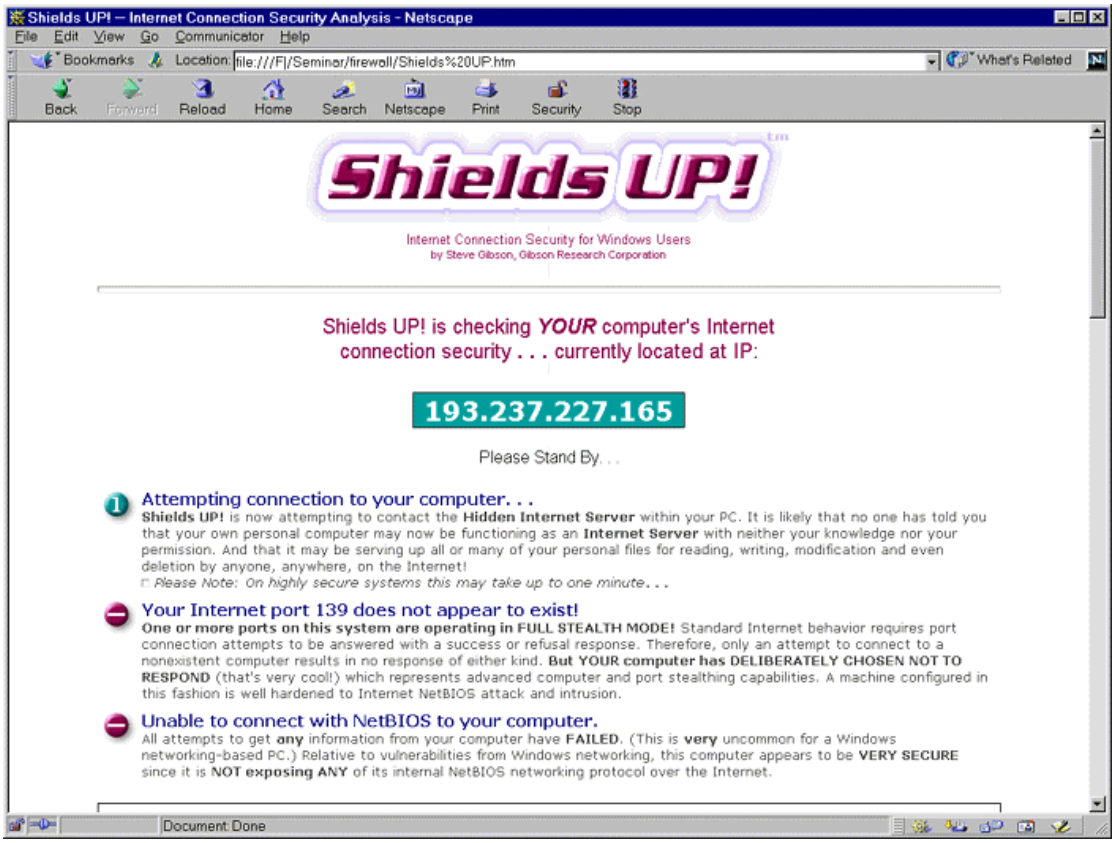
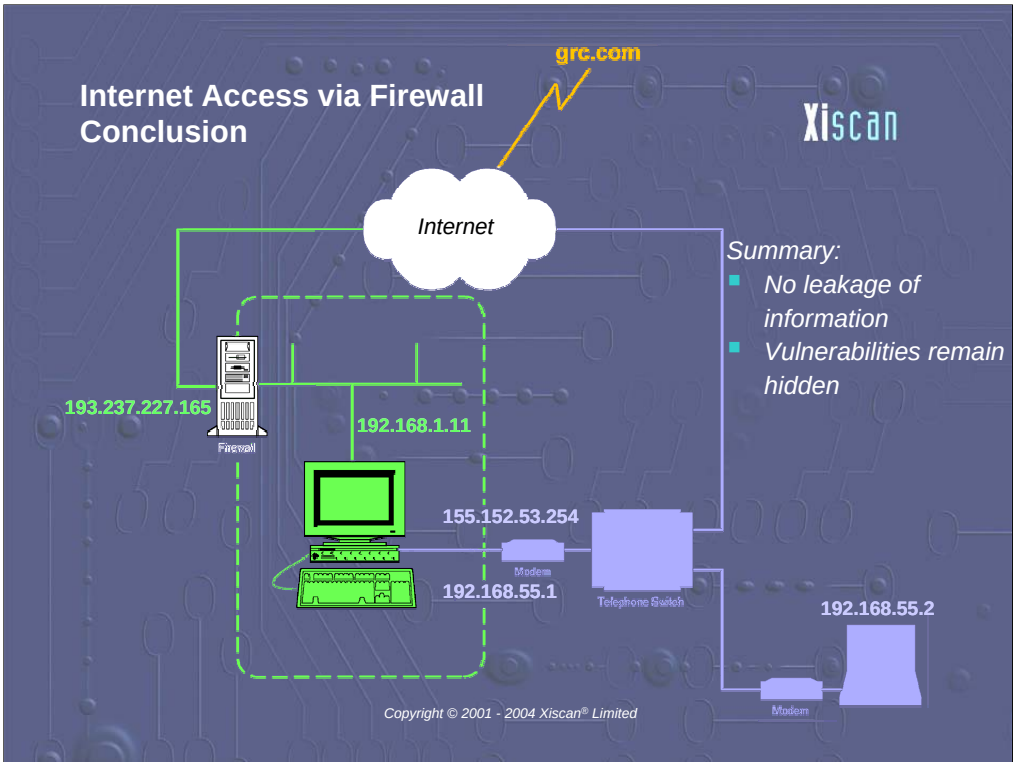
Connection through the firewall…




Internet Access via Firewall
Conclusion
grc.com
Xiscan
Internet
Summary:
No leakage of information
Vulnerabilities remain hidden
193.237.227.165
Firewall
192.168.1.11
155.152.53.254
Modem
192.168.55.1
Telephone Switch
192.168.55.2
Modem
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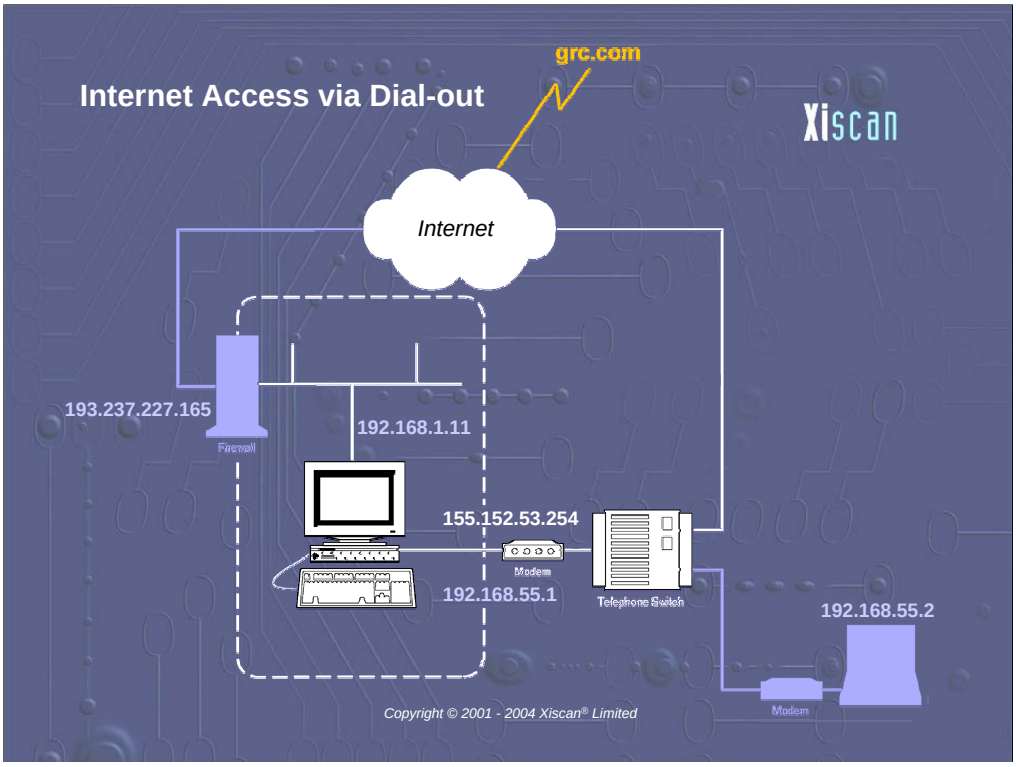
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192.168.55.2
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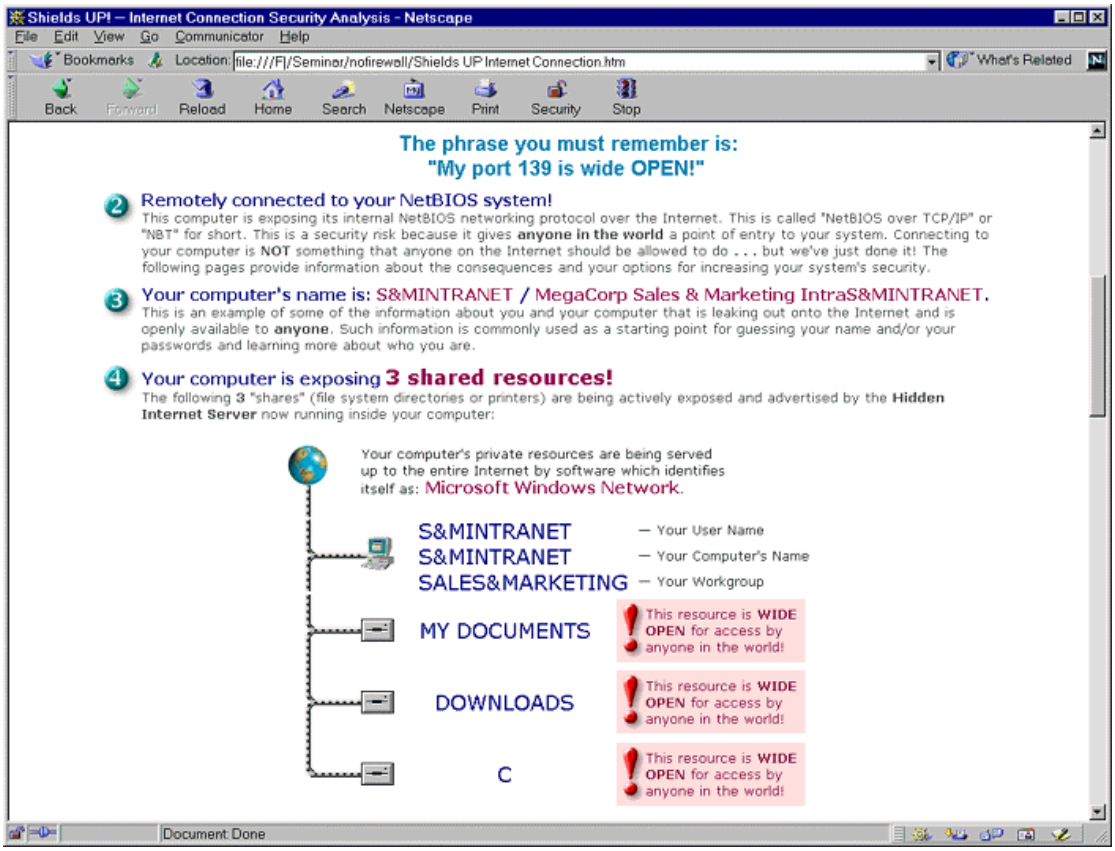
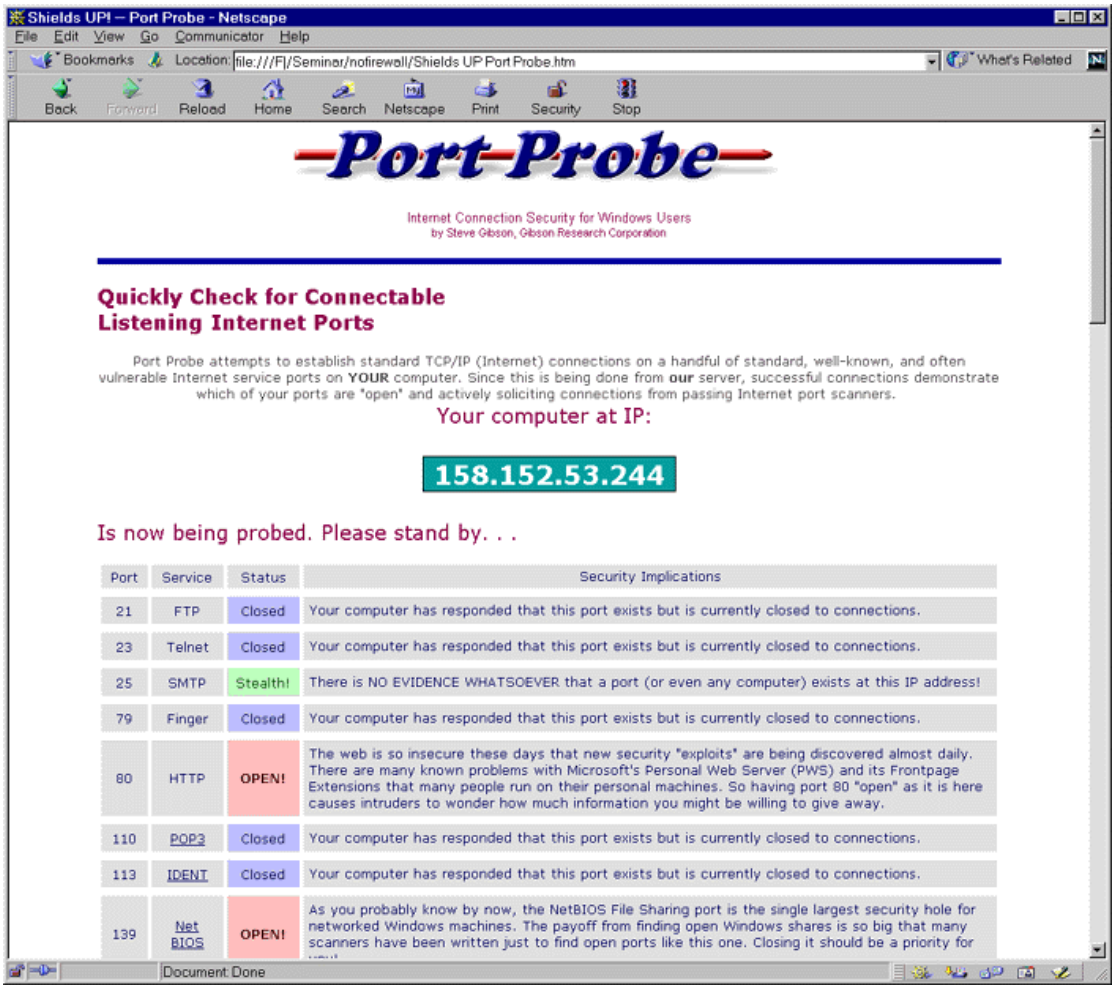
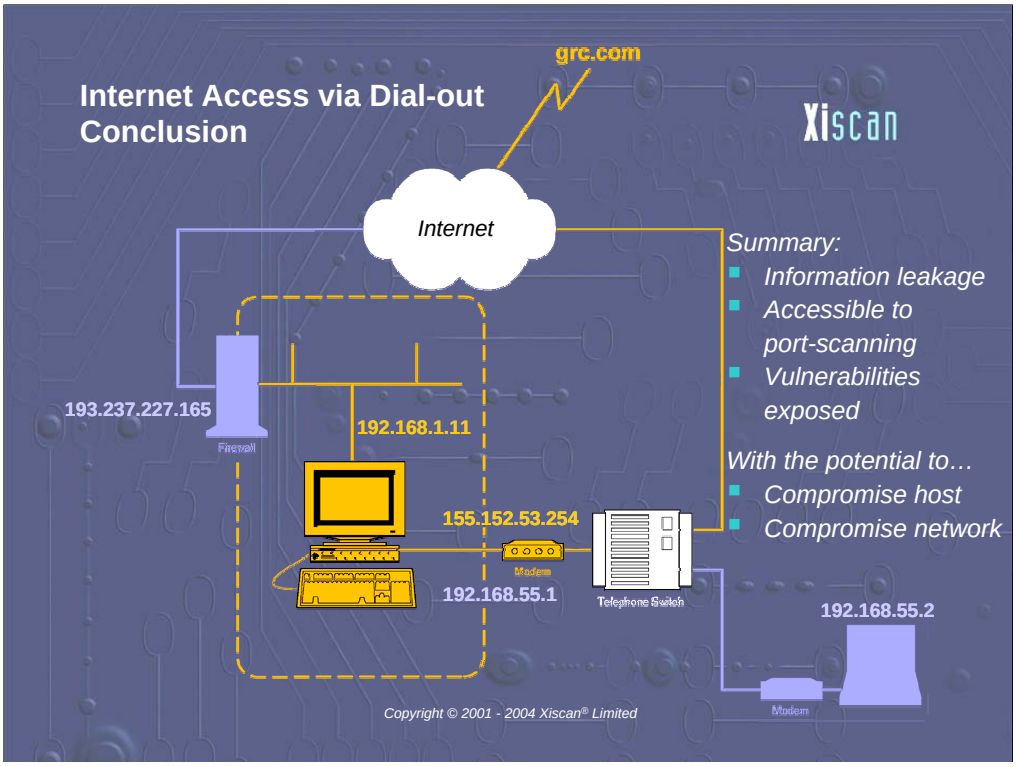
Connection through a dial-out connection:







What kind of information leaks out?:

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