Remote Access

David Caesar-Dare & Deb Meisels

with special thanks to

Jimmy Lamake

OUR CHOICES

- Microsoft Remote Desktop

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- CrossLoop

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- LogMeIn

Microsoft Remote Desktop

- One of the best features of Windows XP Professional and Windows Vista is Remote Desktop.

- From any Internet connection, you can use Remote Desktop to access your home computer, bring up information you need, and continue with everyday life.

The Good News

The Remote Desktop Connection software is pre-installed with Windows XP Pro and Vista.

Basic Networking Terms

- WAN Address = Wide Area Network Address (External Address)
- LAN Address = Computers may be on a router (Internal Address)
- Client = Computer you are working from
- Host = Computer you are trying to access
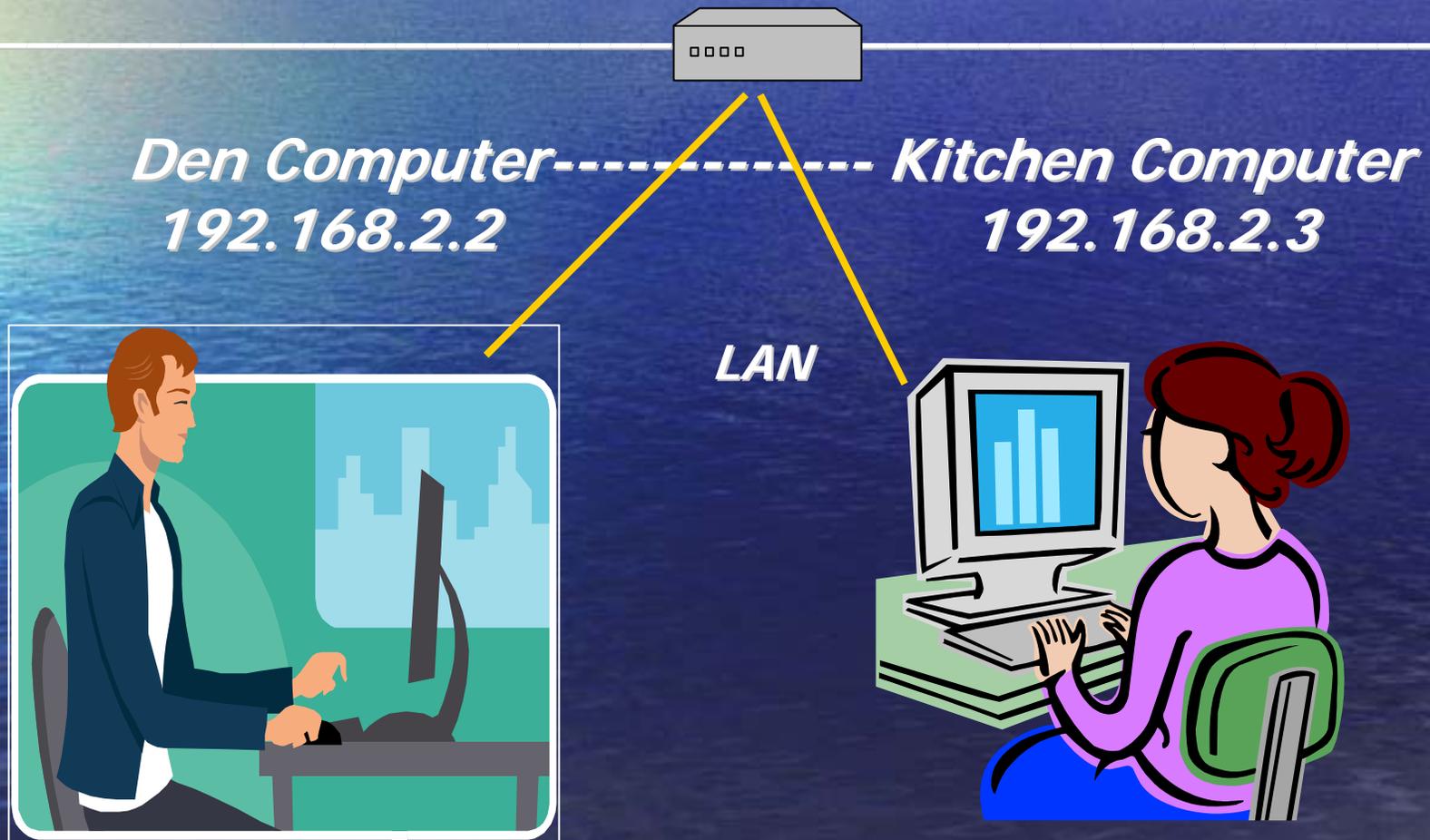- Port = Entry point of a computer

IP Address

- Every machine on the Internet has a unique identifying number, called an IP Address.
- A typical IP address looks like this:
  216.27.61.137

- Just as a phone number is unique:
  1.914.946.5511
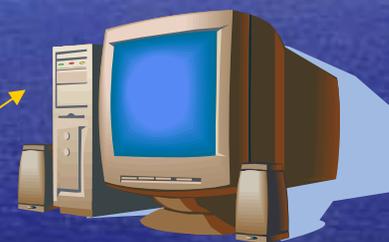
Scenario 1
Two Computers Inside a LAN

Den Computer------------ Kitchen Computer
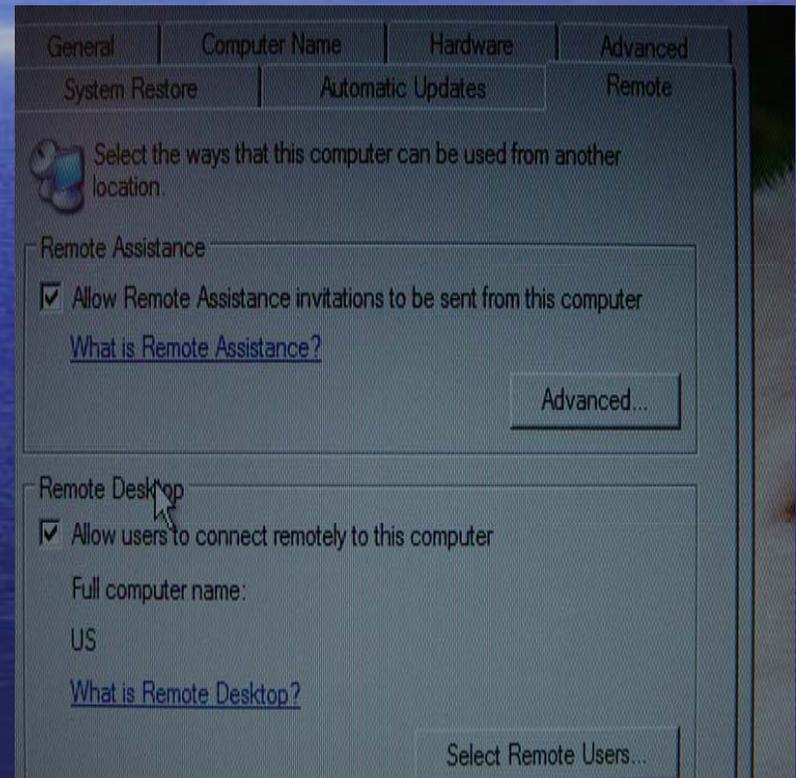192.168.2.2   192.168.2.3

LAN

Configure Host Machine

- Host must be XP Pro, 2003 Server, Media Center, or Vista

- Account on Host machine must have a password

- Start / Control Panel / User Accounts

Configure Remote Desktop on Host

- Right click on My Computer
- Select Properties
- Click "Remote" tab
- Check "Allow users to connect remotely to this computer."

Get Your Internal IP Address

- Start / Run / CMD
- ipconfig /all

Configure XP Firewall

- Control Panel > Windows Firewall > On
➢ Uncheck "Don't Allow Exceptions"
➢ On Exceptions tab, check Remote Desktop
➢ Click OK

Configure Zone Alarm

- Open Zone Alarm
- Under Firewall, click Add
- Input Remote Desktop, an IP range, and set to Trusted
- Click Apply

Configure Other Firewalls

http://www.portforward.com/english/routers/firewalling/routerindex.ht

- 8Signs Firewall
- Agnitum Outpost Firewall Pro
- Armor2Net Firewall
- BitDefender Internet Security v10
- BullGuard
- CA Personal Firewall
- Comodo Firewall
- Lavasoft Personal Firewall
- LookNStop Personal Firewall
- McAfee Security Center
- Norton Internet Security 2007
- NVidia ActiveArmor Firewall
- Panda Antivirus N Firewall
- Sunbelt Kerio Personal Firewall
- TermiNetPersonalFirewall
- The Shield Firewall
- Trend Micro PC-cillin Internet Security
- Windows XP Firewall
- ZoneAlarm Pro Firewall

- Instructions for both Hardware and Software Firewalls are found there

Accessing Host From Client

Click Start / All Programs / Accessories / Communication / Remote Desktop

Use the Host Internal IP Address from ipconfig /all

Host Computer Name:................
Host Computer Password:.................

You are now on the Remote Desktop inside a LAN

Scenario 2
2 Computers on a WAN
With No Host Router

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2 Computers on a WAN
With No Host Router

- Using ipchicken, get Host IP address

- Update Client firewall (if not Windows) to allow access

Scenario 3
Two Computers on Different LANs

Client Computer--Internet--Router--Host Computer

69.121.66.35

69.121.66.34

WAN

School

Port forward :3389

192.168.2.1

LAN

192.168.2.2

Home
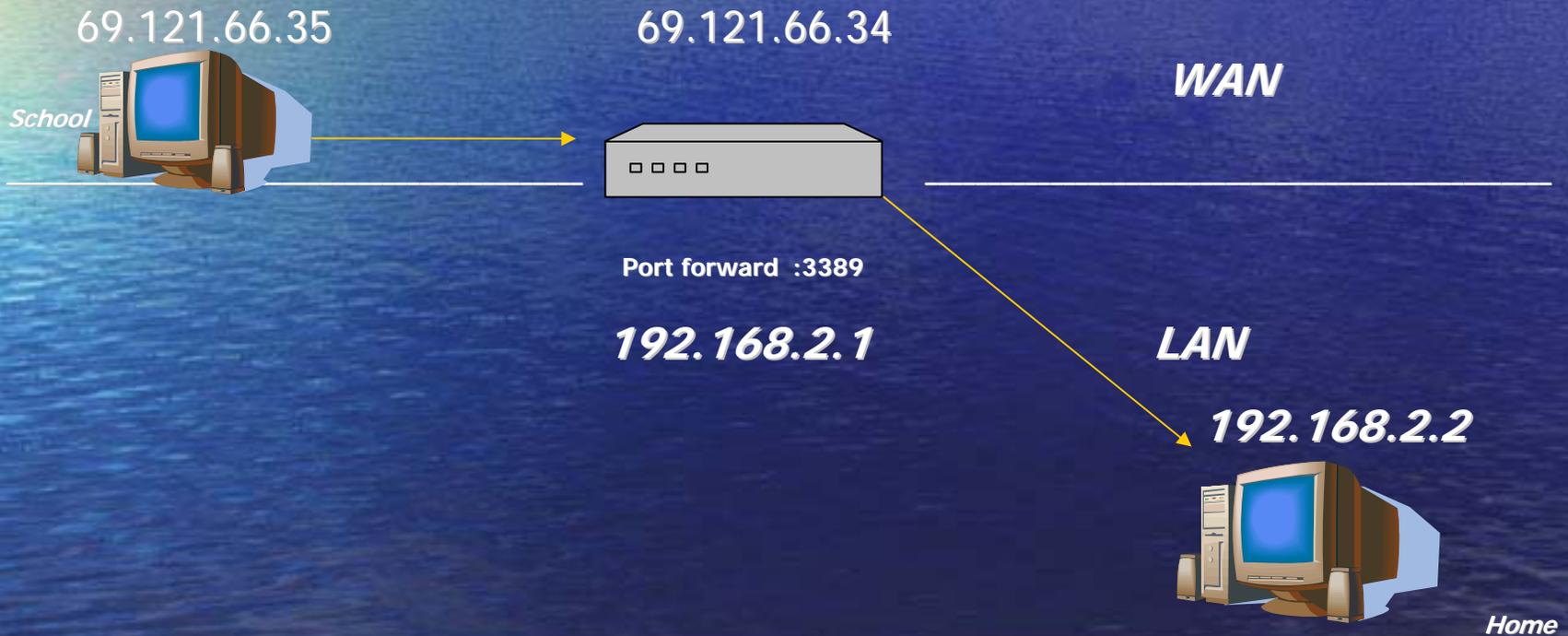
Routers Separate WAN From Your LAN

The router holds the External IP Address from your Internet provider.

WAN
69.121.66.31

192.168.2.1

LAN

192.168.2.3
192.168.2.2

Routers give out Internal IP Address for every computer inside the LAN side

WHAT IS A PORT?

- Each machine has 64,000+ ports
- Many are reserved for specific applications
- Port 3389 is reserved for remote desktop
- For multiple accounts, the port number increases by 1 (the second account would be 3390, etc.)

LinkSys Router Port Forwarding

Scenario 3
Two Computers on Different LANs

- Need to Port Forward the Host Router
- Open your browser and go to
  http://portforward.com/routers.htm

- Click on your specific router and print the settings for Remote Desktop

Scenario 3 (continued)
ADD PORT FORWARD TO YOUR ROUTER

- Open your browser and go to your router's Web page, i.e., 192.168.2.1

- Input the Router User Name:_____

- Router Password:_********_

- Input the settings from the Port Forward page and forward port 3389 to your Internal IP Address, i.e., 192.168.2.3

- www.portforward.com for your particular router.

Scenario 3
Get Your External IP Address

- External IP Address of the Host computer
  www.ipchicken.com

  69.121.66.3

Host Computer Info You Need

- Host External IP Address:____.___.___.____
- Router Model
- Router Logon and Password
- Instructions to Port Forward for the Router
- Set your Firewall to trust Port Forward
- Host Internal IP Address:____.___.___.____
- Host User Name:_____
- Host Password:_**********_

Two Computers on Different LANs on Client Computer

- Click Start / All Programs / Accessories / Communication / Remote Desktop

Input the External IP Address for the Host computer

Login and Password

- Input your info
- Host Name:_____
- Host Password:_ ********_

- You are now logged on to the remote computer.

Where do you get Remote Desktop Connection Software if you don't have it on your computer?

- **From Microsoft**

- http://www.microsoft.com/windowsxp/downloads/tools/rdclientdl.mspx

WHERE CAN YOU FIND OUT MORE ABOUT
MICROSOFT REMOTE DESKTOP?

- **www.microsoft.com**

- **www.pchell.com**

- **www.portforward.com**

- **www.youtube.com**

CrossLoop

- www.crossloop.com
- Click on Free Download
- Run, Run, English, Next
- Accept agreement, Install, Finish
- On Host, Click Host Tab, then Connect, send access code to remote person
- On Remote, click Join Tab, enter access code, then click Connect
- On Host, accept the remote computer

CrossLoop – Simple Secure Screen Sharing

- Connect any two PCs
- File transfer capability
- Switch control to make collaboration easier
- View Only and Share Control modes

What Is Unique About CrossLoop

- Ease of use - no router configuration required
- Secure and encrypted
- CrossLoop does not require Windows XP Pro

GoToMyPC

- www.gotomypc.com
- Download program on Host machine, install, and sign up with credit card
- Log in to Web site from another computer
- Click Connect.

GoToMyPC Pricing

- **Monthly Plan:** $19.95/mo.

- **Annual Plan:** $179.40/yr. **Save 25%**

LogMeIn Overview

- LogMeIn is Remote Connectivity Software

- From any Internet connection you can use it to go to any Host computer

30-Day Trial

- Free for personal or business use
- Premium Service costs.
- For 30 days, you get Free/Pro/Reach
- Add as many computers as you want
- After 30 days you'll have the free version

Create a Sign Up

- https://secure.logmein.com/home.asp
- Create an account
- Use https site (https = secure)
- Enter your email address and choose a
-    password
- Follow the setup wizard

Add a Computer

- From computer you are adding, go to www.logmein.com and log in
- Click on Add Computer
- Add the software on the Host
- Input your Access Code
- You will see a square silver icon in the sys tray of the Host computer.

Connect

- Log into www.logmein.com, click the computer you want to access, and you're in!

Go to Work

- From any client computer
- Send email
- Run programs
- Open files

Premium Products

- **LogMeIn Pro** - Securely access your PCs, hear sound, print from anywhere and share files

- **LogMeIn Hamachi** - Instantly connect multiple computers in a VPN

- **LogMeIn IT Reach** - servers over the Web

- **LogMeIn Backup** - backups to storage devices

- **LogMeIn Rescue** - Support remote PCs over the Web without pre-installing software

Feature Comparison

	Remote Desktop	CrossLoop	GoToMyPC	LogMeIn
Cost	Free	Free	$$	Free/$$
Collaboration	No	Yes	Yes	Yes
File Xfer		Yes	Yes	Yes/$$
Ease of Use	Complex	Easiest	Easy	Moderate

Another fine presentation from the dynamic duo of Dave and Deb

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