

1-USING ANY COMPUTER TO ACCESS FILES OR PRINTERS SHARED FROM ANOTHER "WINDOWS.." COMPUTER

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An International
Association of Technology
& Computer User Groups

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Notes”

SUMMARY

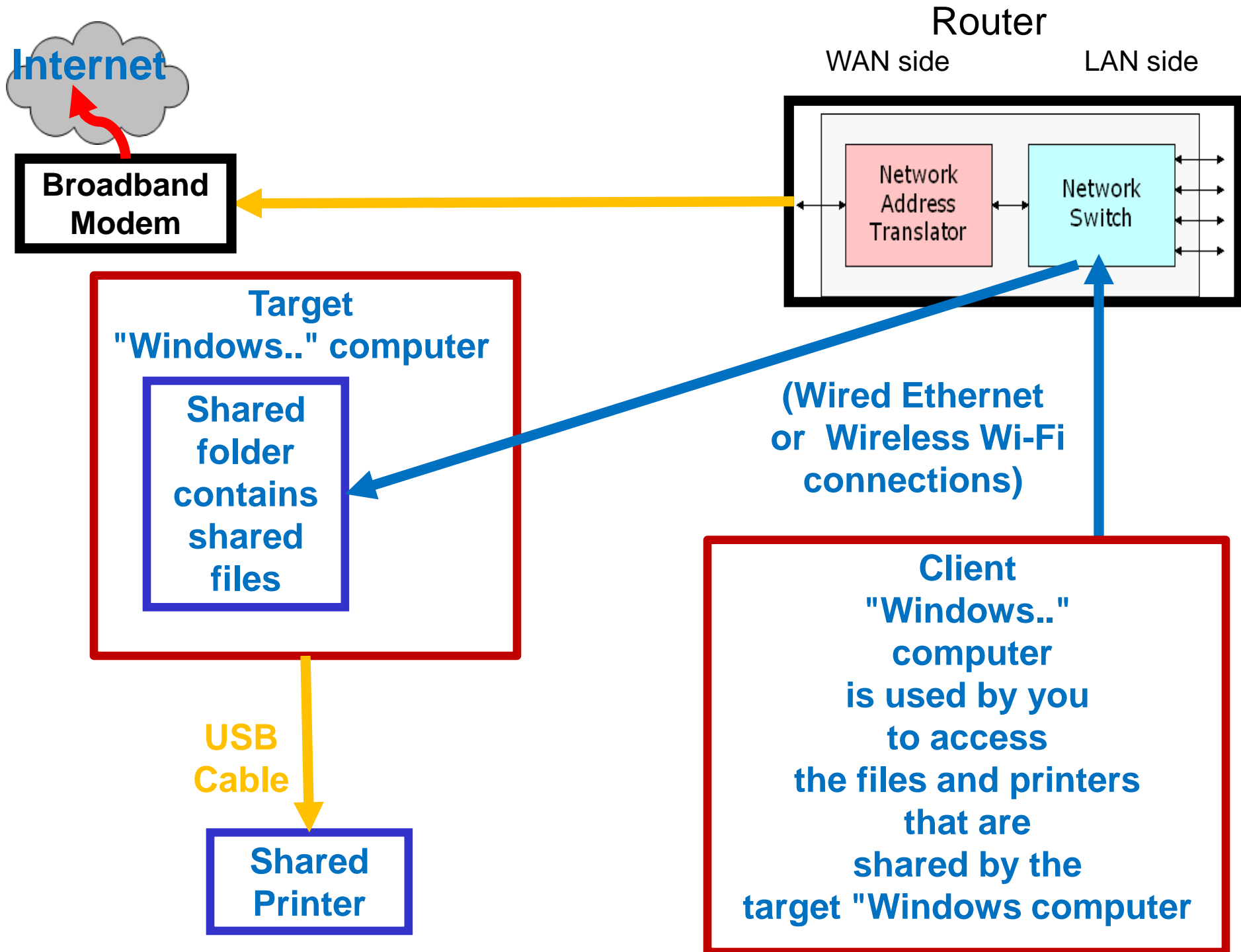
Here are our basic advice for using any "Windows.." or Linux computer to access files or printers that are shared by another Windows.. computer.

TOPICS

- Microsoft's "Server Message Block" ("SMB") Protocol for File and Printer Sharing
- File Sharing Between Windows.. computers
- File Sharing Between Windows.. and Linux computers
- Comprehensive Fix for "Server Message Block" File Sharing Woes
- Use the Private IP address of the target computer to force file and printer sharing

FILE SHARING IN "WINDOWS.."

- "Server Message Block" ("SMB") protocol
- Most attempts to share files and printers over a local network fail due to various incompatibilities between Windows versions, hardware issues, and Microsoft's horrible documentation



- FILE SHARING IN "WINDOWS.." (continued)
- "Server Message Block" ("SMB") has "on/off" listing in "Windows Defender Firewall" where it is called "File and Printer Sharing". The default there is to have both "Private" and "Public" checked.

FILE SHARING IN "WINDOWS.." (continued)

- ("File Explorer"
in "Windows 8", "Windows 10", and
"Windows 11"
is analogous to
"Windows Explorer"
in "Windows XP", "Windows Vista",
and "Windows 7")

FILE SHARING IN "WINDOWS.." (continued)

- Computers with shared folders and shared printers shared by means of "Server Message Block" ("SMB") show up in "Network" in "File Explorer"

"WIRELESS ISOLATION"

- Wireless Wi-Fi "public networks" such as at Starbucks block "SMB" file sharing
= "Wireless Isolation"
- Home routers and the router part of broadband modems do not block "SMB" file sharing (usually)

"WIRELESS ISOLATION" (continued)

- By default, home routers do not have "wireless isolation" with the exception that some of the more expensive home routers allow you to have "wireless isolation" for the "guest network"

"WIRELESS ISOLATION" (continued)

- The end result is:
Never expect to do "Server Message Block" file sharing or "Server Message Block" printer sharing at a "Starbucks" or a hotel

"WIRELESS ISOLATION" (continued)

- To do "Server Message Block" file sharing file sharing or printer sharing at a "Starbucks", bring your own "Wireless Internet Service Provider" ("WISP") router: Then the attach your Windows.. computers to the WISP router's wired Ethernet side or to the WISP router's "wireless access point".

"SERVER MESSAGE BLOCK" BASICS

- Windows XP: SMB ver. 1
- Windows Vista: SMB ver. 2,
and SMB ver. 1
- Windows 7: SMB ver. 2
and SMB ver. 1
- Windows 8: SMB ver. 3, SMB ver. 2,
and SMB ver. 1
- Windows 10 & 11: SMB ver. 3,
SMB ver. 2,
and SMB ver. 1

"SERVER MESSAGE BLOCK" BASICS

(continued)

- File sharing between different versions of "Windows.." use the "lowest common denominator"

"SERVER MESSAGE BLOCK" BASICS (continued)

- To do "Server Message Block" file sharing between a "Windows 10.." computer and a "Windows XP.." computer, you have to turn on "SMB 1" in the "Windows 10" computer in "..Windows Features.." in "Programs and Features" in the "Control Panel"

"SERVER MESSAGE BLOCK" BASICS

(continued)

- To do "Server Message Block" file sharing between "Windows XP.." computer and higher version of "Windows", you also have to change the "workgroup" of the "Windows XP" computer from "MSHOME" to "WORKGROUP"

FILE SHARING OPTIONS FOR VARIOUS EDITIONS OF "WINDOWS.."

- Windows XP
to and from Windows XP:
Use SMB ver. 1

FILE SHARING OPTIONS (continued)

- Windows XP
to and from "Windows Vista" and
higher:
Use SMB ver. 1
after changing "workgroup" in
"Windows XP" to "WORKGROUP"
AND turning on SMB ver. 1 in the
Windows Vista, 8, 10, or 11
computer

FILE SHARING OPTIONS (continued)

- Windows 7
to and from
Windows 7 or Windows 8:
Use SMB vers. 2

FILE SHARING OPTIONS (continued)

- Windows 8
to and from
Windows 7 or Windows 8:
Use SMB ver. 2

FILE SHARING OPTIONS (continued)

- Windows 7
to and from
Windows 10 or 11:
Use SMB ver. 2

FILE SHARING OPTIONS (continued)

- Windows 8
to and from
Windows 10 or 11:
Use SMB ver. 3

FILE SHARING OPTIONS (continued)

- Windows 10 or 11
to and from
Windows 10 or 11:
Use SMB ver. 3

COMPREHENSIVE FIX FOR "SERVER MESSAGE BLOCK" FILE SHARING WOES

- Step 1000:
Perform steps similar to those listed at
http://aztcs.org/meeting_notes/winhardsig/FileSharing/2-XP-access-Win10-share.pdf
- Step 2000: Do a "System Restore" to a prior "restore point"

COMPREHENSIVE FIX FOR "SERVER MESSAGE BLOCK" FILE SHARING WOES (continued)

- Step 3000:
Do a "refresh", a "reset", or a fresh
installation of the "Windows.."
operating system, etc.

USE \\<PRIVATE IP ADDRESS>

- After sharing a file or folder in the "target" computer, use it's private IP address of the "target" computer to "brute force" the computer that you are using to get the computer that you are using to find the shared files

USE \\<PRIVATE IP ADDRESS> (continued)

- Otherwise you may have to wait hours or days before the shared files show up in the computer that you are using.

- Big Step 700:
Run ipconfig to determine the private IP address of the target computer that is sharing its files
- Step 701:
From inside the target "Windows 10" computer, use the RIGHT mouse button to click on the "Start button":

- Big Step 700:

Run ipconfig to determine the private IP address of the target computer that is sharing its files (continued)

- Step 702:

From inside the target "Windows 10" computer, a "Windows key + x" menu will be displayed:

Apps and Features

Power Options

Event Viewer

System

Device Manager

Network Connections

Disk Management

Computer Management

Windows PowerShell

Windows PowerShell (Admin)

Task Manager

Settings

File Explorer

Search

Run

Shut down or sign out



Desktop



- Big Step 700:

Run ipconfig to determine the private IP address of the target computer that is sharing its files (continued)

- Step 703:

Use the LEFT mouse button to click on either "Windows Powershell" or "Command Prompt" in the "Windows key + x" menu:

Apps and Features

Power Options

Event Viewer

System

Device Manager

Network Connections

Disk Management

Computer Management

Windows PowerShell

Windows PowerShell (Admin)

Task Manager

Settings

File Explorer

Search

Run

Shut down or sign out



Desktop



- Big Step 700:

Run ipconfig to determine the private IP address of the target computer that is sharing its files (continued)

- Step 704:

A "Powershell" or "Command Prompt" window will be displayed:


 Windows PowerShell

Windows PowerShell

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PS C:\Users\testuser>

- Big Step 700:
Run ipconfig to determine the private IP address of the target computer that is sharing its files (continued)
- Step 706:
Use the LEFT mouse to click once inside the "Powershell" or "Command Prompt" window: a blinking cursor will be shown inside the window:

 Select Windows PowerShell

Windows PowerShell

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PS C:\Users\testuser> 



- Big Step 700:

Run ipconfig to determine the private IP address of the target computer that is sharing its files (continued)

- Step 707:
Use the keyboard to type in ipconfig

 Windows PowerShell

Windows PowerShell

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PS C:\Users\testuser> **ipconfig**_

- Big Step 700:

Run ipconfig to determine the private IP address of the target computer that is sharing its files (continued)

- Step 708:

Press the enter key of the keyboard:

 Windows PowerShell

Windows PowerShell

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PS C:\Users\testuser> ipconfig

Windows IP Configuration

Ethernet adapter Ethernet0:

```
Connection-specific DNS Suffix  . : localdomain
Link-local IPv6 Address . . . . . : fe80::b0ed:392e:c71f:bacf%2
IPv4 Address. . . . . : 192.168.174.148
Subnet Mask . . . . . : 255.255.255.0
Default Gateway . . . . . : 192.168.174.2
```

Tunnel adapter Teredo Tunneling Pseudo-Interface:

```
Connection-specific DNS Suffix  . :
IPv6 Address. . . . . : 2001:0:9d38:90d7:3c16:1a1c:3f57:516b
Link-local IPv6 Address . . . . . : fe80::3c16:1a1c:3f57:516b%3
Default Gateway . . . . . : ::
```

PS C:\Users\testuser>

- Big Step 700:

Run ipconfig to determine the private IP address of the target computer that is sharing its files (continued)

- Step 709:

Write down the IPv4 address of the lowest-numbered Ethernet or Wireless network adapter:

- Big Step 700:

Run ipconfig to determine the private IP address of the target computer that is sharing its files(continued)

- Step 709 (continued) :

In this example, the IPv4 address of my Windows 10 computer is 192.168.174.148 but yours will be different:

```
Link-local IPv6 Address . . . . . : fe80::bcca:592c:  
IPv4 Address. . . . . : 192.168.174.148
```

- Big Step 700:

Run ipconfig to determine the private IP address of the target computer that is sharing its files (continued)

- Step 710:
Type
exit

```
PS C:\Users\testuser> exit
```

- Big Step 700:
Run ipconfig to determine the private IP address of the target computer that is sharing its files (continued)
- Step 711:
Press the enter key of the keyboard

- Big Step 800:

From the client computer that needs to access the shared files go to \\<private ip address of the computer that is sharing the files>

- Step 801:

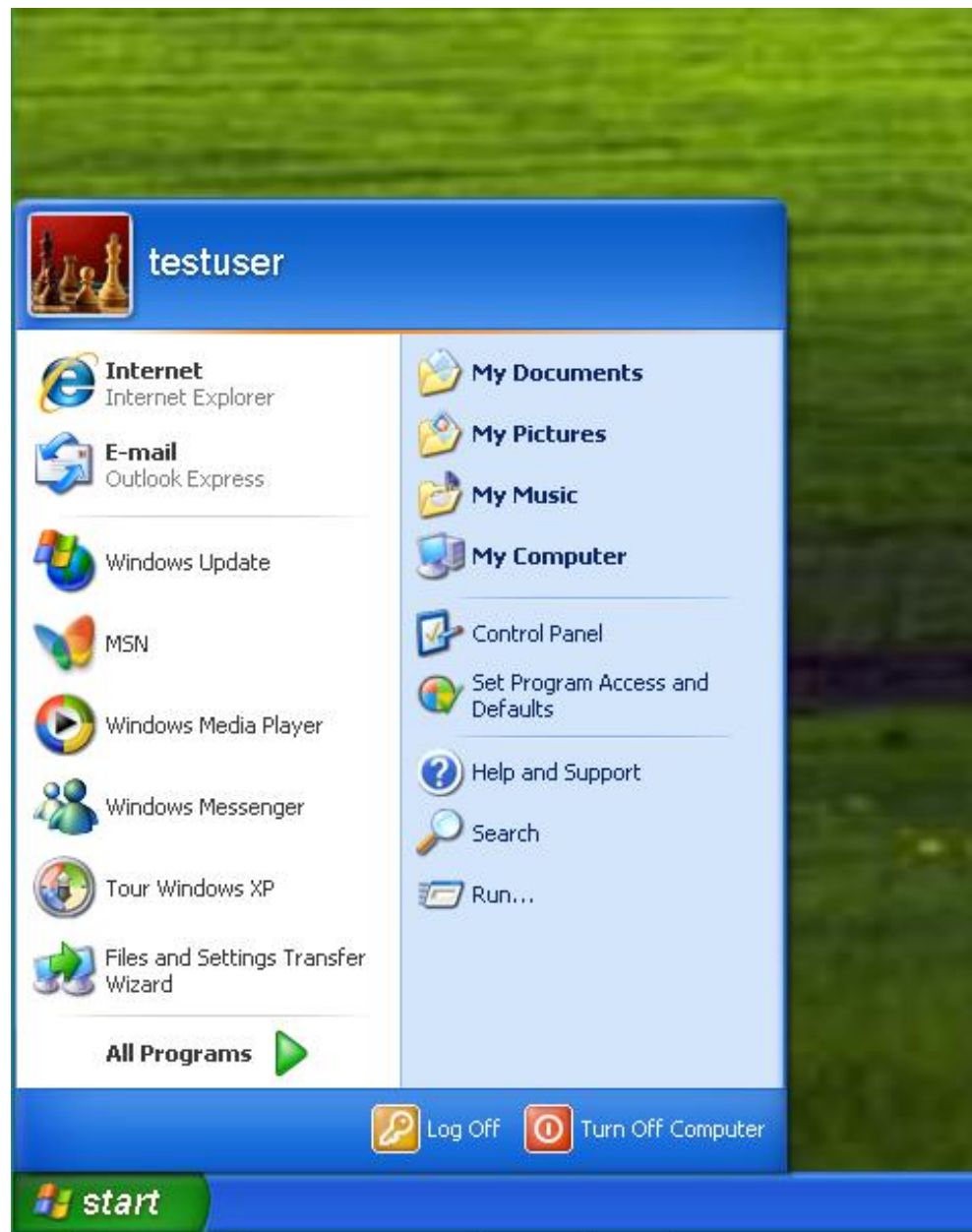
From inside the "Windows XP" computer, click on the "Start button"

- Big Step 800:

From the client computer that needs to access the shared files, go to \\<private ip address of the computer that is sharing the files> (continued)

- Step 802:

The "Start menu" of "Windows XP" will be displayed:

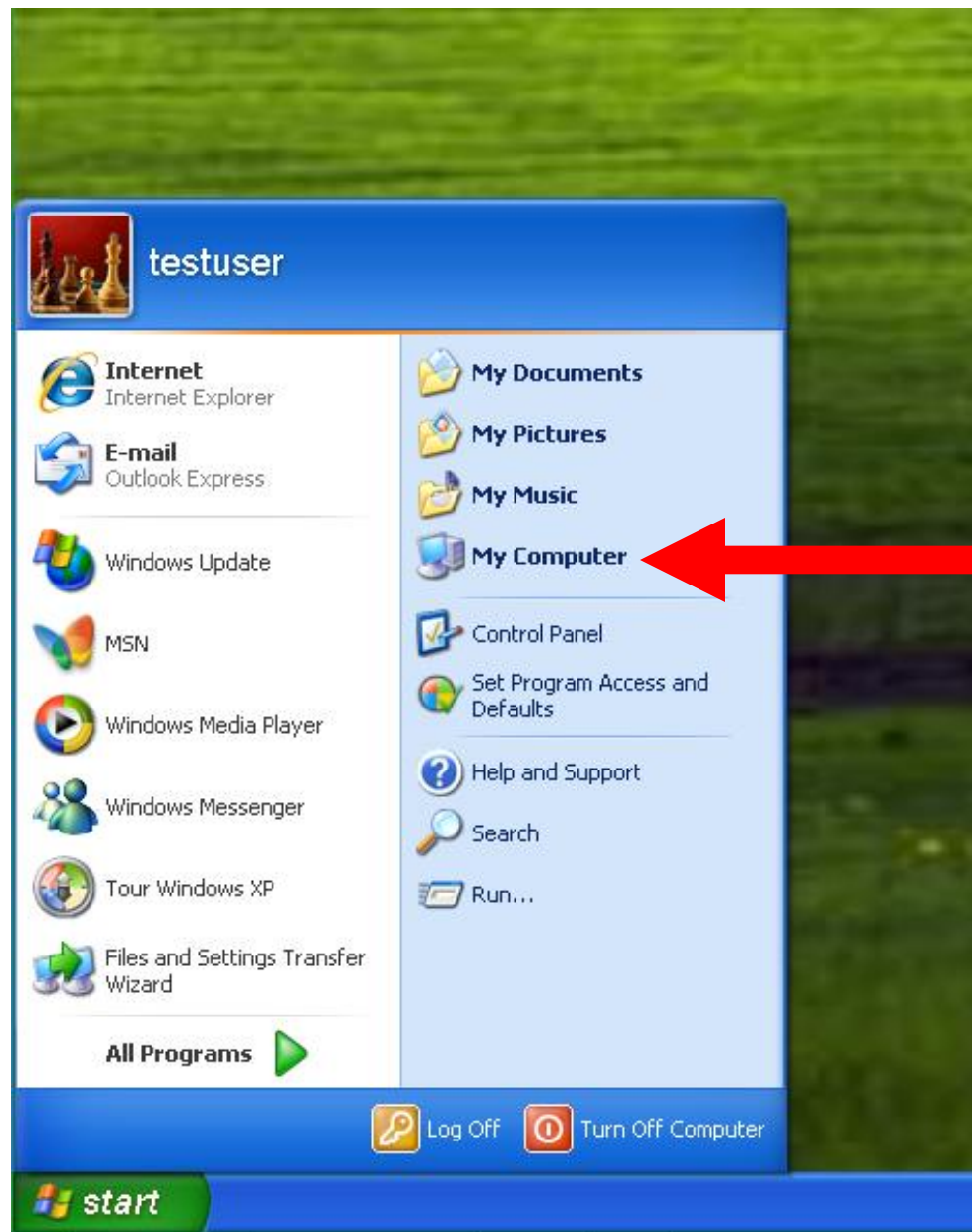


- Big Step 800:

From the client computer that needs to access the shared files, go to \\<private ip address of the computer that is sharing the files> (continued)

- Step 803:

Double-click on any "Windows Explorer" location such as "My Computer" or "My Documents":

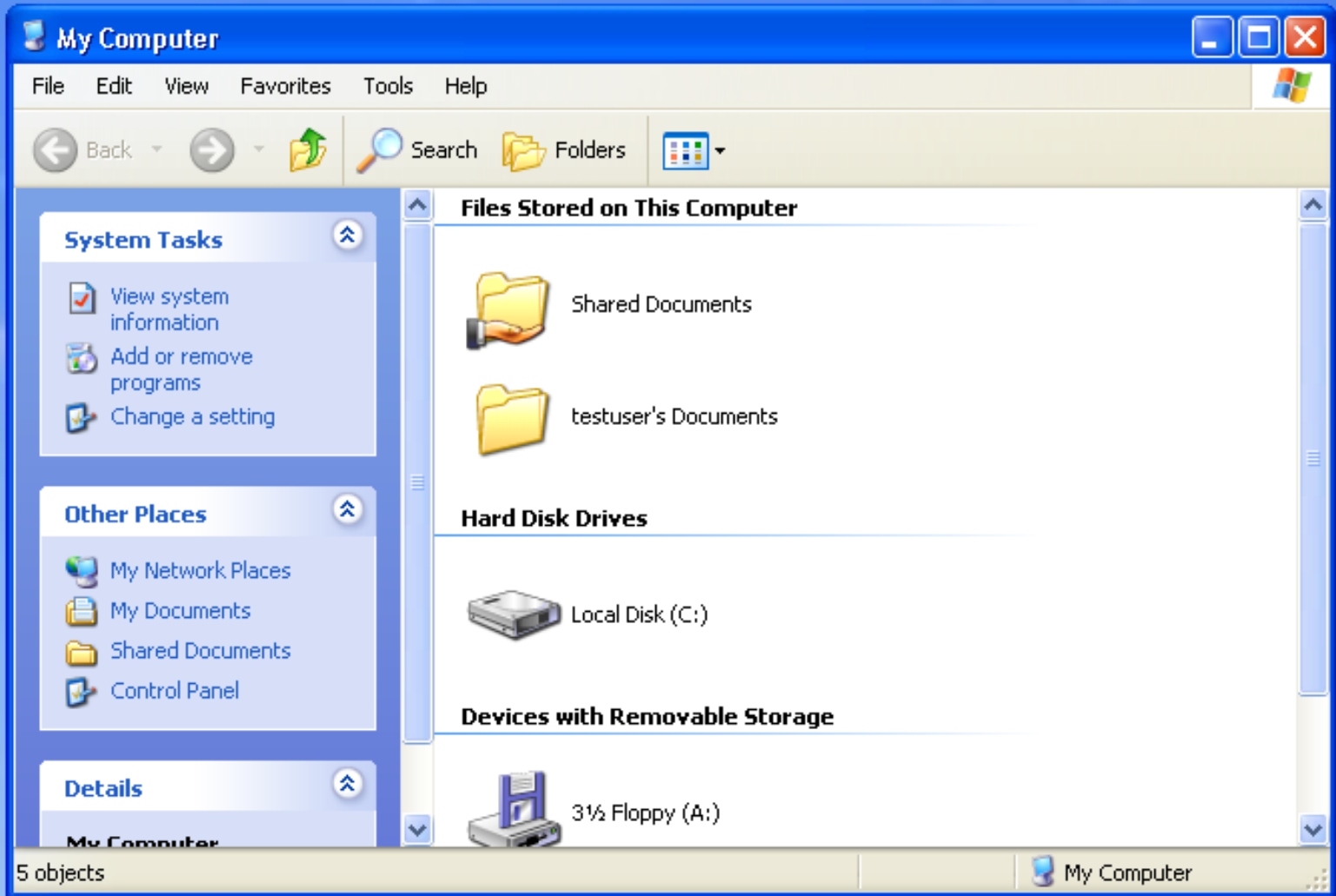


- Big Step 800:

From the client computer that needs to access the shared files, go to \\<private ip address of the computer that is sharing the files> (continued)

- Step 804:

A "Windows Explorer" window will be displayed:

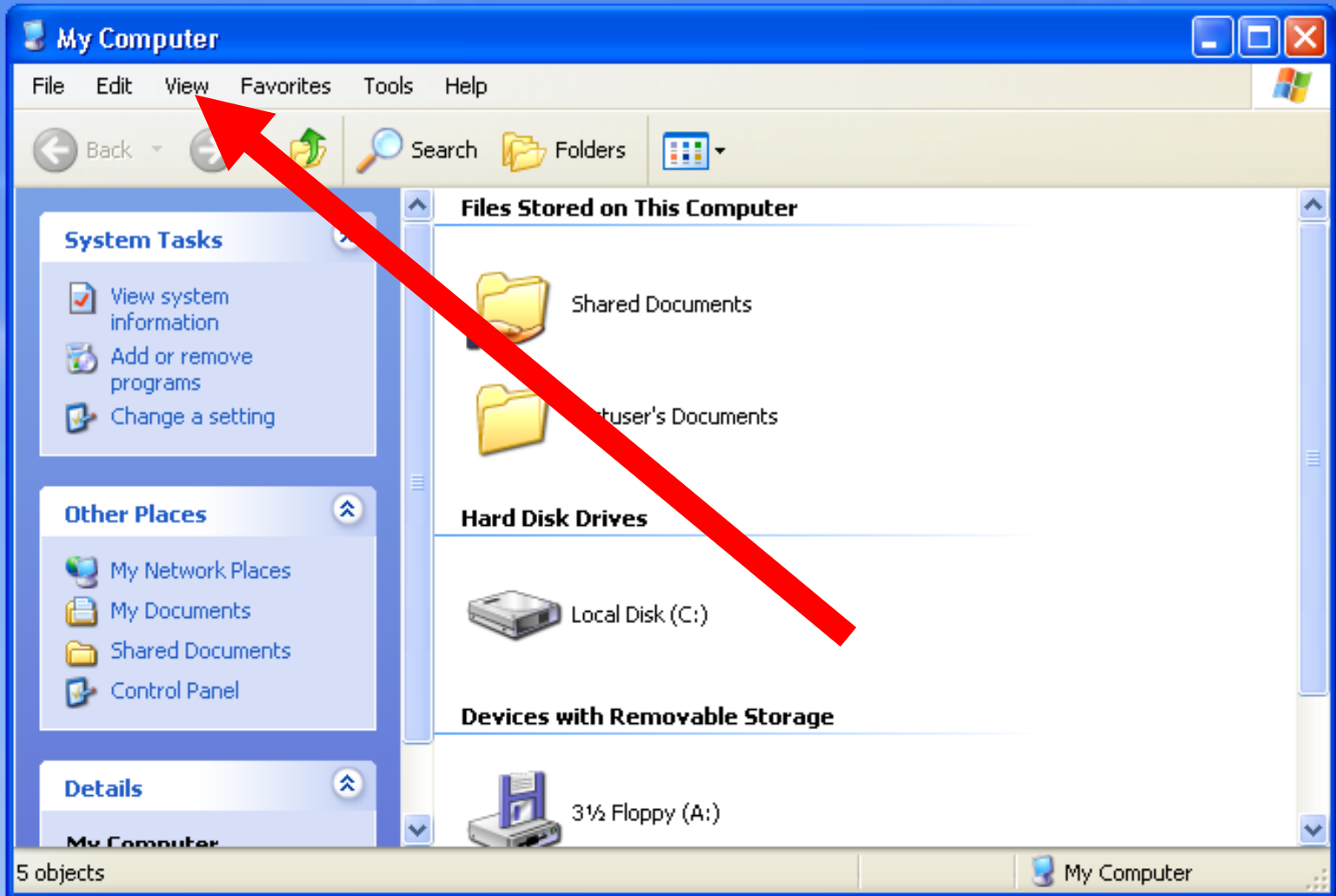


- Big Step 800:

From the client computer that needs to access the shared files, go to \\<private ip address of the computer that is sharing the files> (continued)

- Step 805:

Click on "View" in the pull-down menu bar:

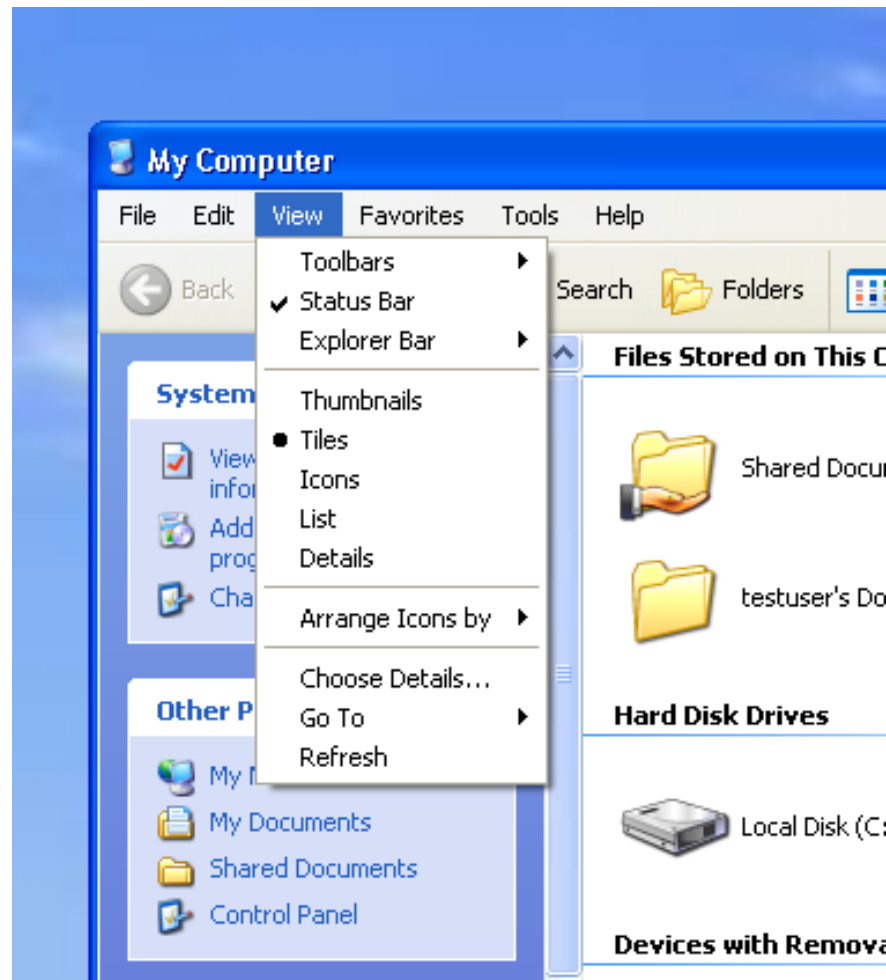


- Big Step 800:

From the client computer that needs to access the shared files, go to \\<private ip address of the computer that is sharing the files> (continued)

- Step 806:

The "View" pull-down menu will be displayed:

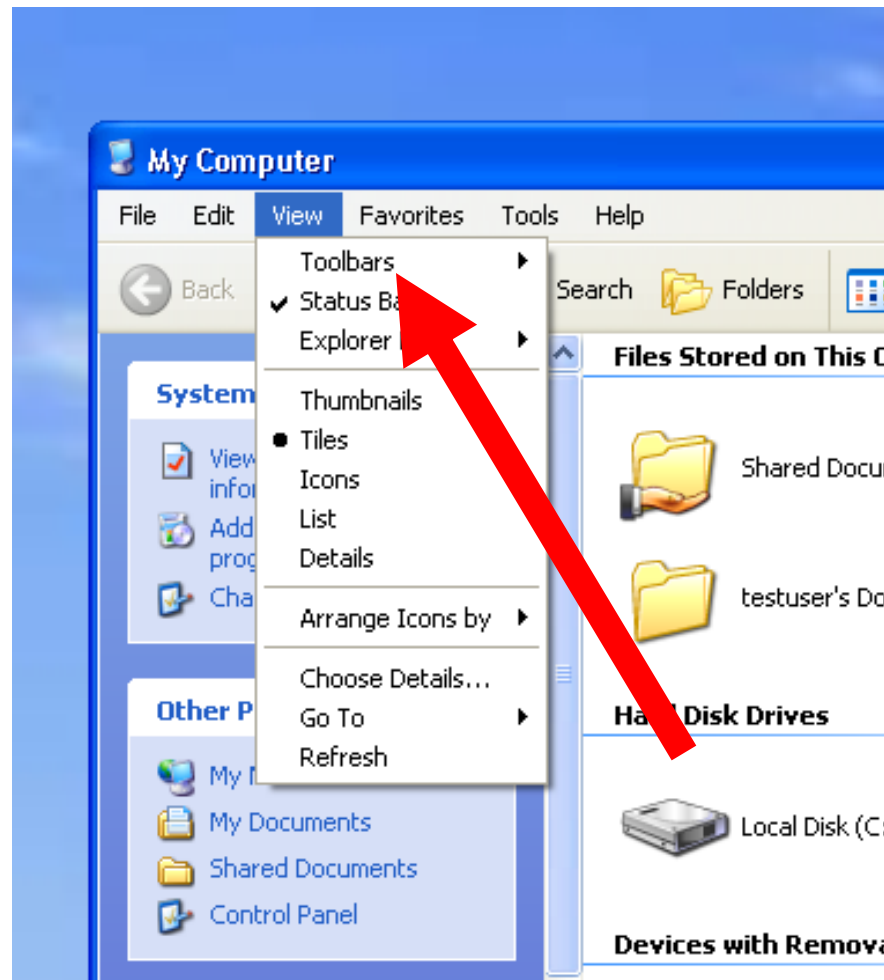


- Big Step 800:

From the client computer that needs to access the shared files, go to \\<private ip address of the computer that is sharing the files> (continued)

- Step 807:

Click on "Toolbars" in the "View" pull-down menu:

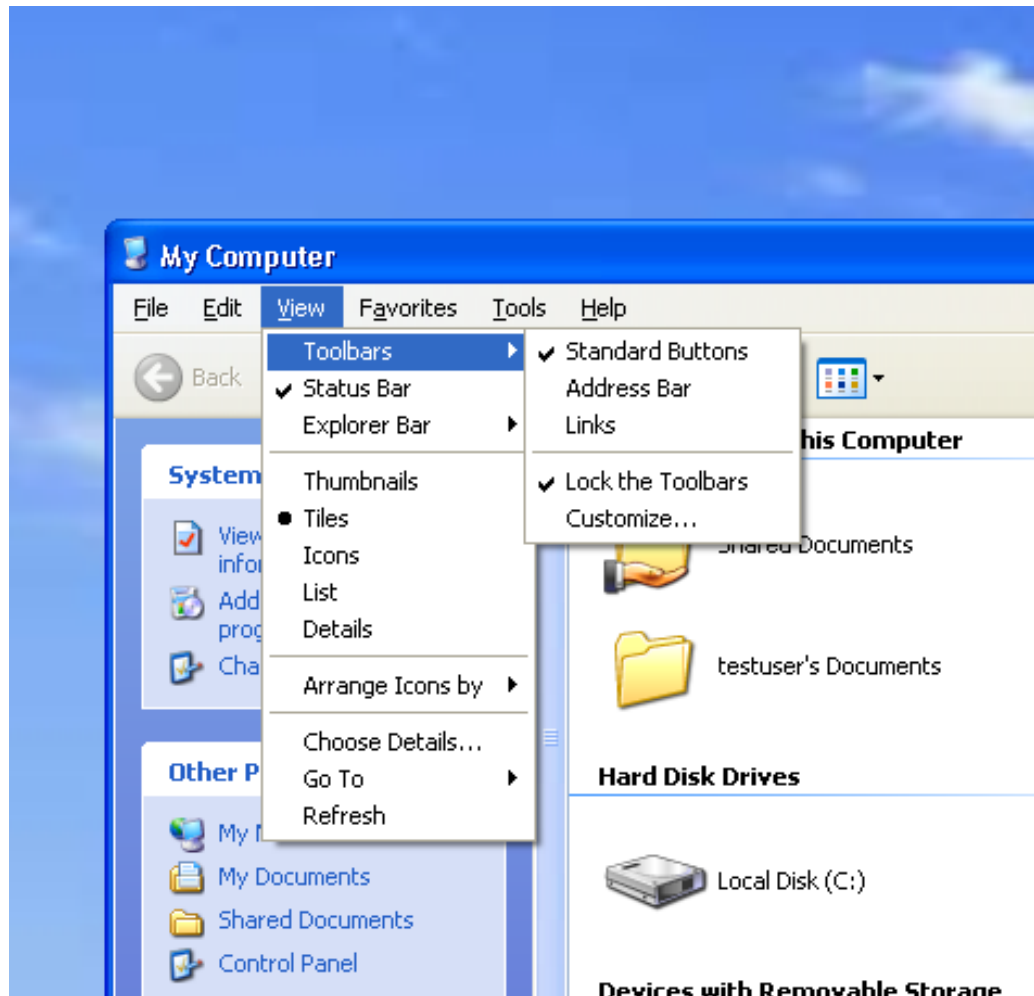


- Big Step 800:

From the client computer that needs to access the shared files, go to \\<private ip address of the computer that is sharing the files> (continued)

- Step 808:

A pop-out menu will appear to the right of the "View" pull-down menu:

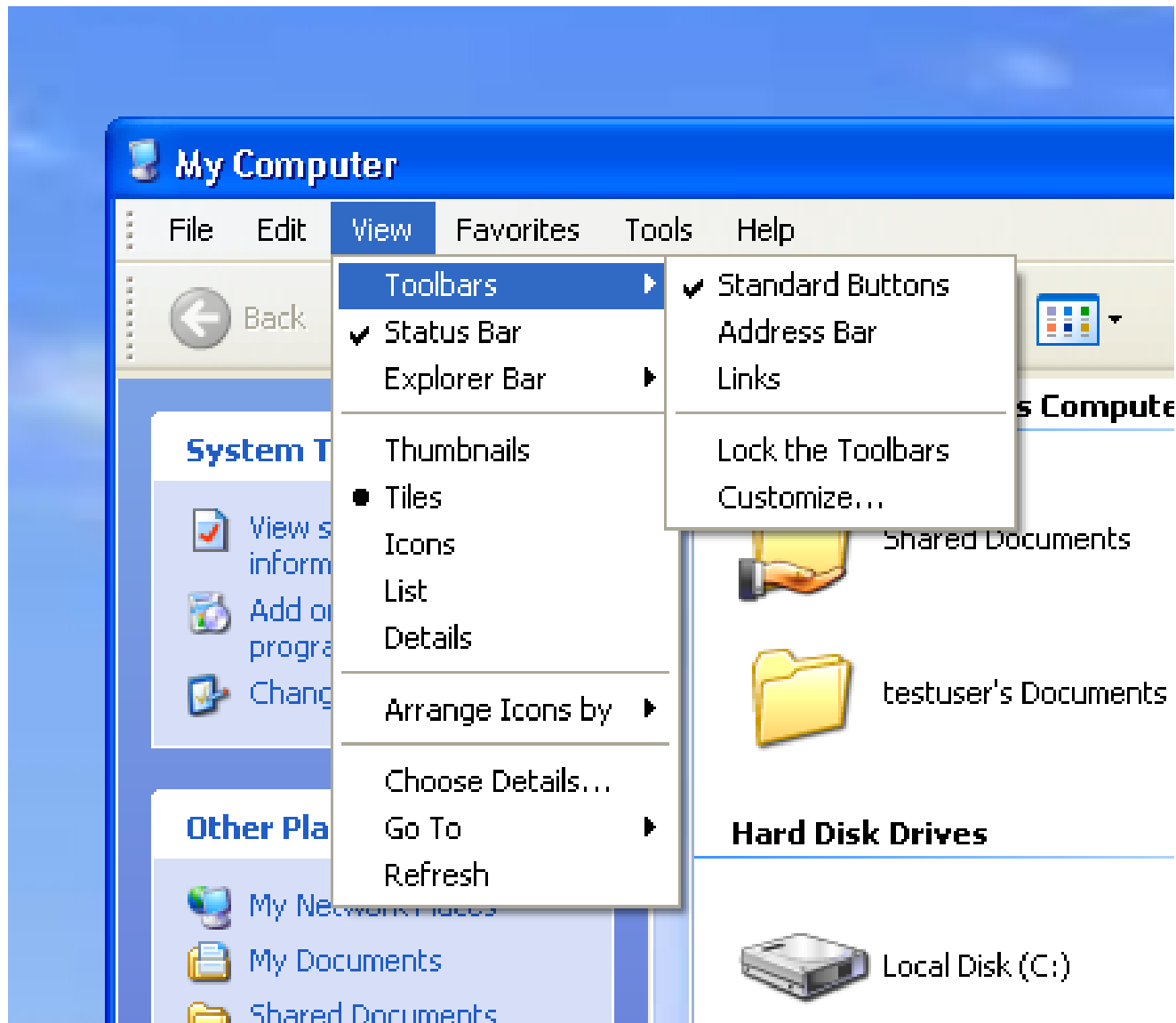


- Big Step 800:

From the client computer that needs to access the shared files, go to \\<private ip address of the computer that is sharing the files> (continued)

- Step 809:

Make sure that "Lock the Toolbars" in pop-out menu does not have a checkmark to the left of it. If there is a checkmark there, click on it to remove it:

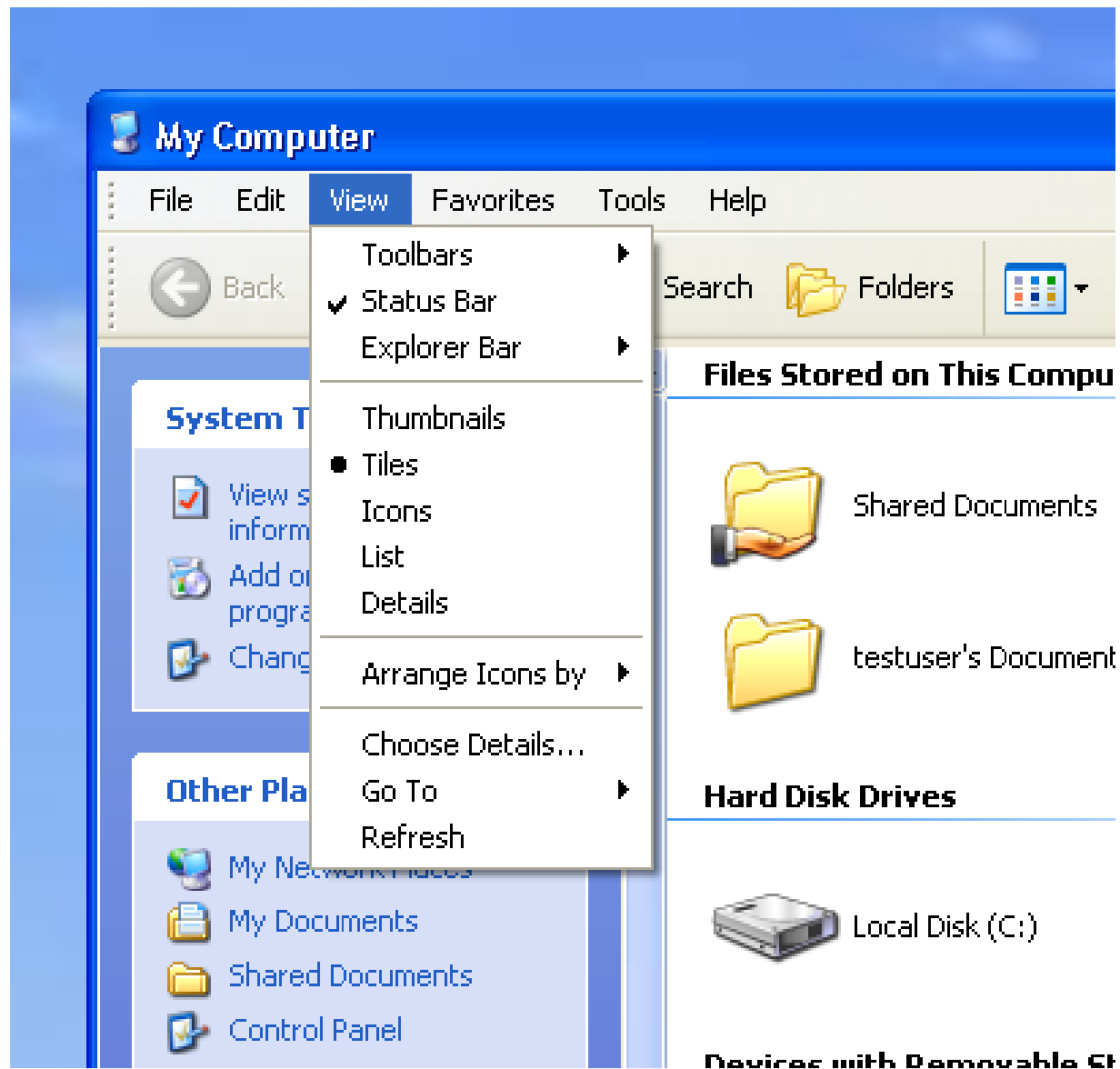


- Big Step 800:

From the client computer that needs to access the shared files, go to \\<private ip address of the computer that is sharing the files> (continued)

- Step 810:

Click on "View" in the pull-down menu bar:



- Big Step 800:

From the client computer that needs to access the shared files, go to \\<private ip address of the computer that is sharing the files> (continued)

- Step 811:

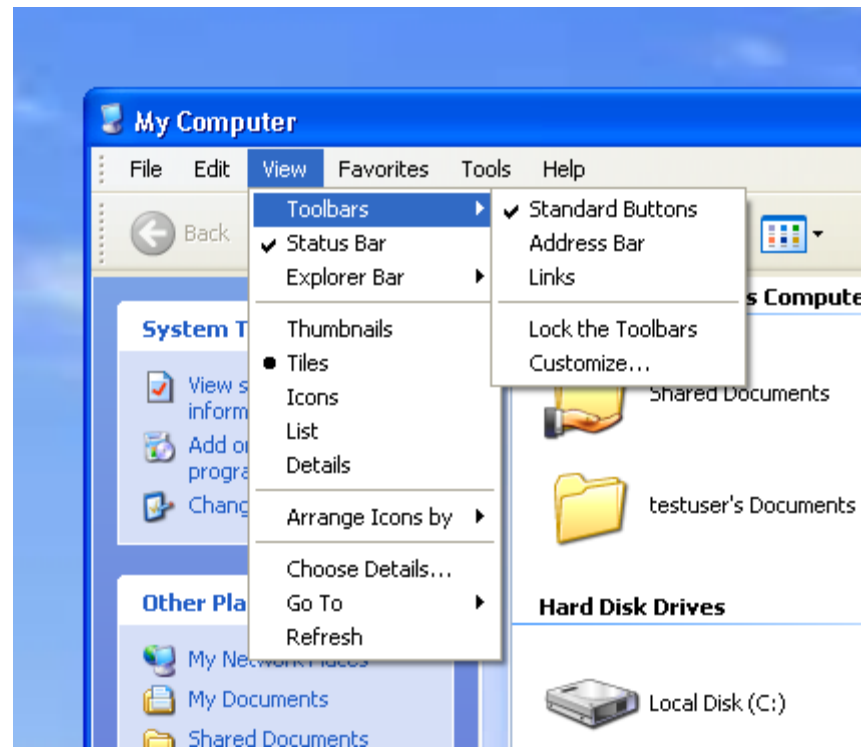
Click on "Toolbars" in the "View" pull-down menu:

- Big Step 800:

From the client computer that needs to access the shared files, go to \\<private ip address of the computer that is sharing the files> (continued)

- Step 813:

A pop-out menu will appear to the right of the "View" pull-down menu:

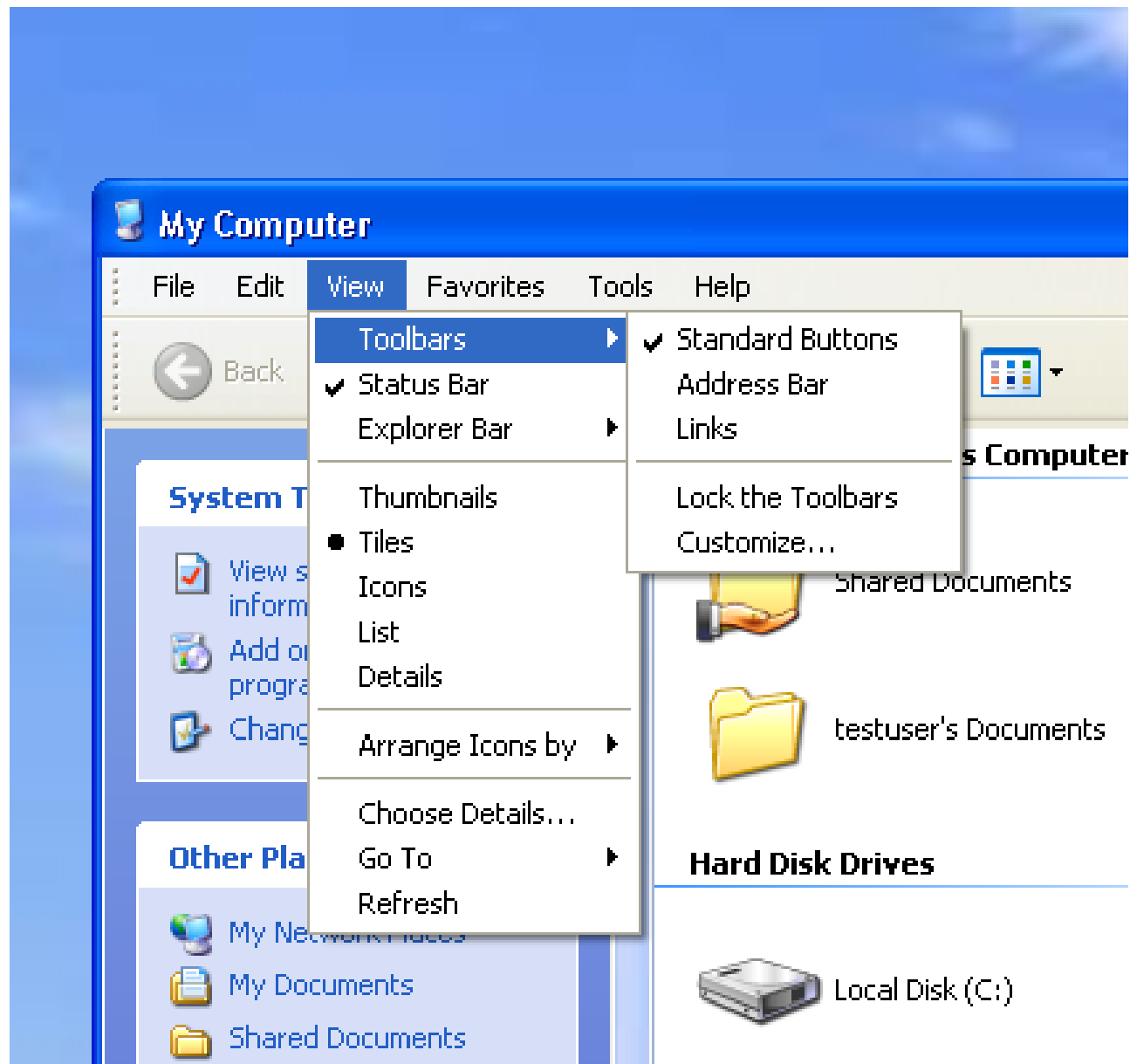


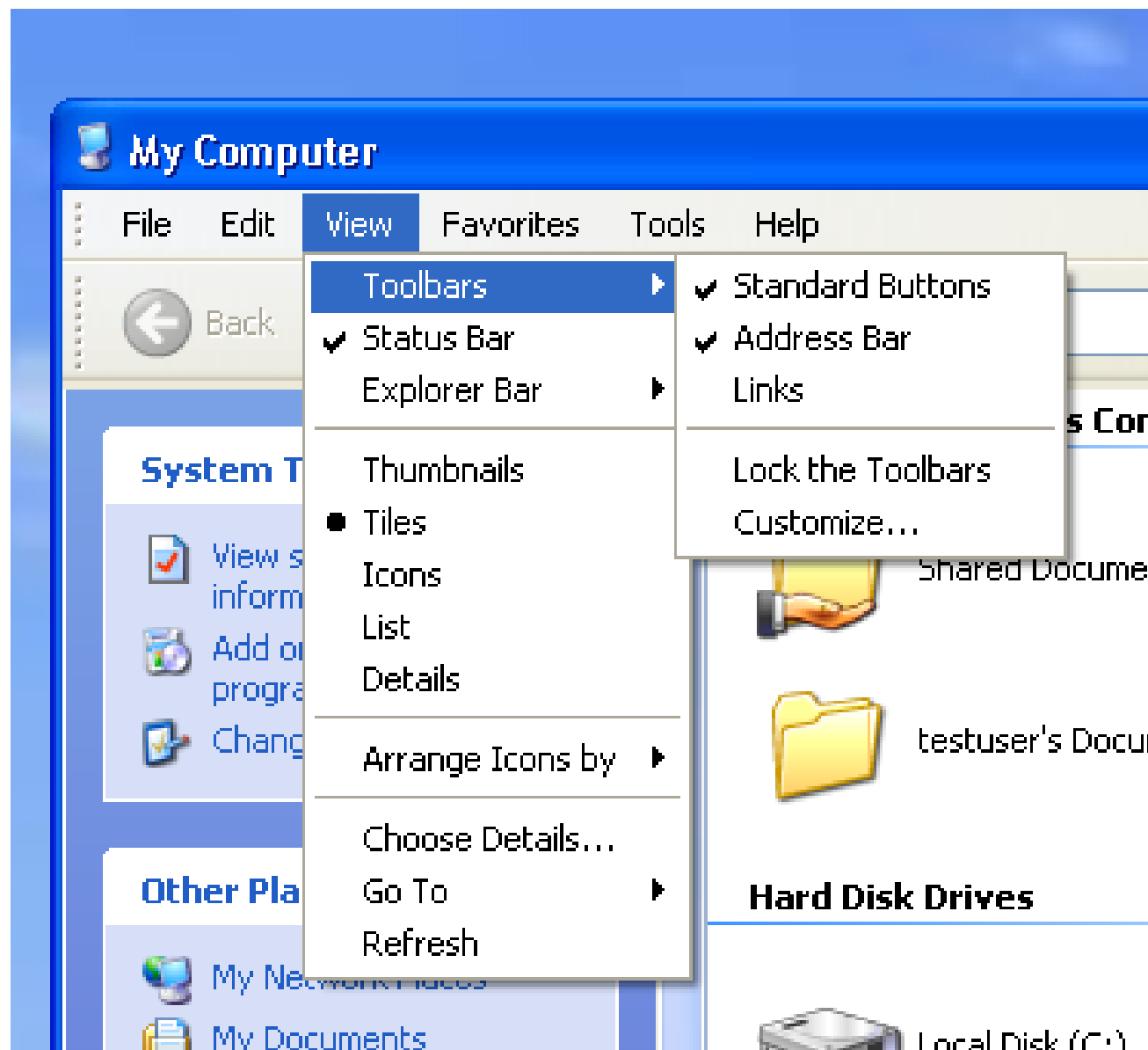
- Big Step 800:

From the client computer that needs to access the shared files, go to \\<private ip address of the computer that is sharing the files> (continued)

- Step 814:

Make sure that "Address Bar" in the pop-out menu has a checkmark to the left of it. If there is no checkmark there, click on it to put one there:



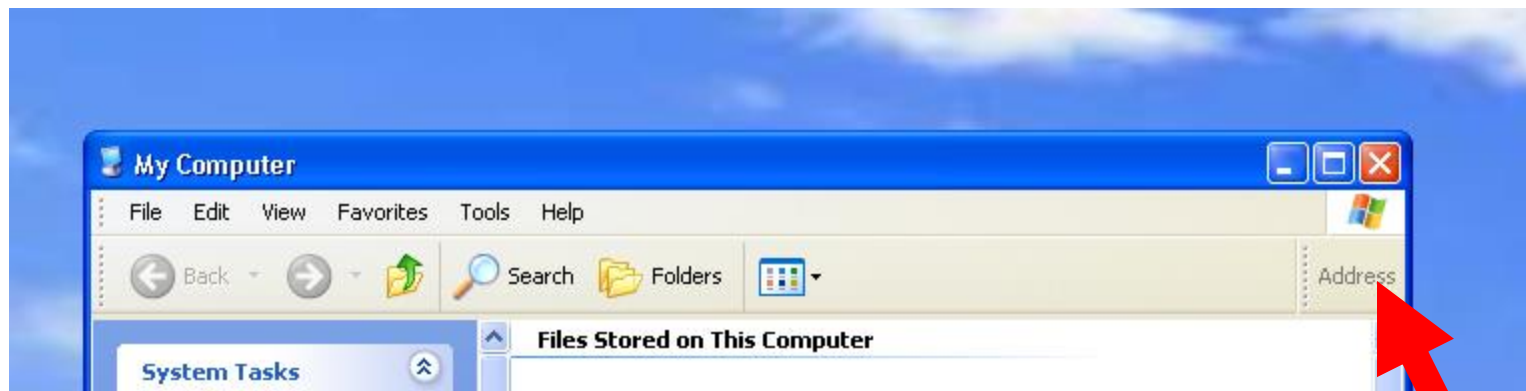


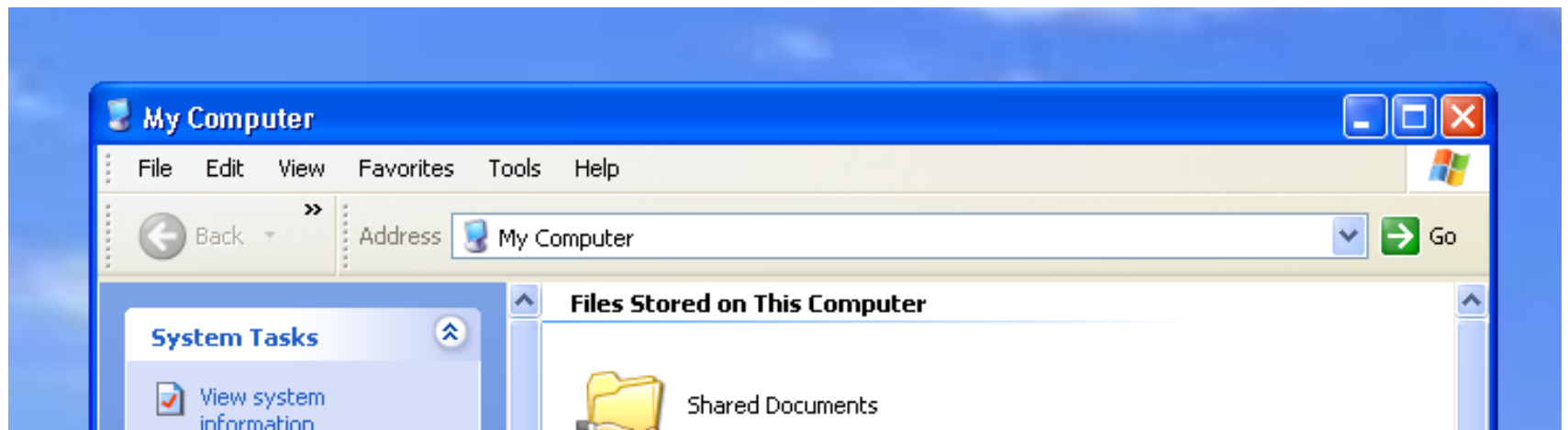
- Big Step 800:

From the client computer that needs to access the shared files, go to \\<private ip address of the computer that is sharing the files> (continued)

- Step 815:

You might have to double-click on "Address" in the bar that is just below the "Menu bar" to display the "Address" field of the "Address bar"



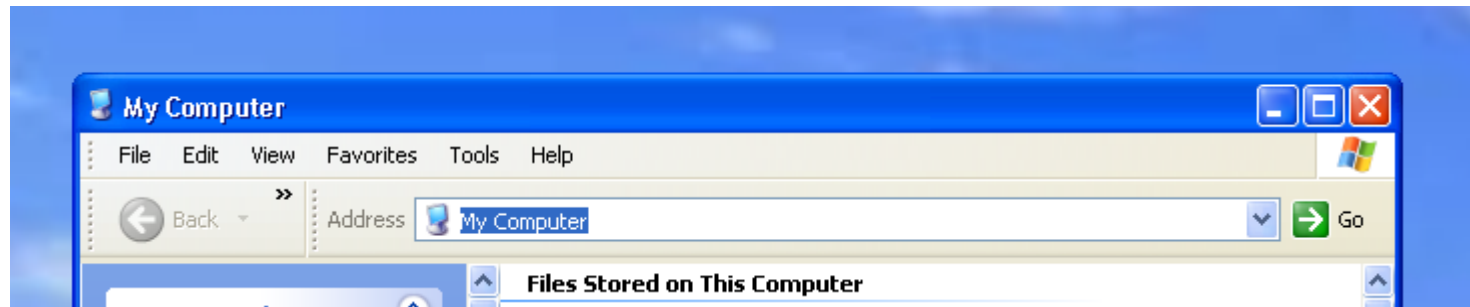


- Big Step 800:

From the client computer that needs to access the shared files, go to \\<private ip address of the computer that is sharing the files> (continued)

- Step 816:

Click once inside the "Address" field of the "Address bar"



- Big Step 800:

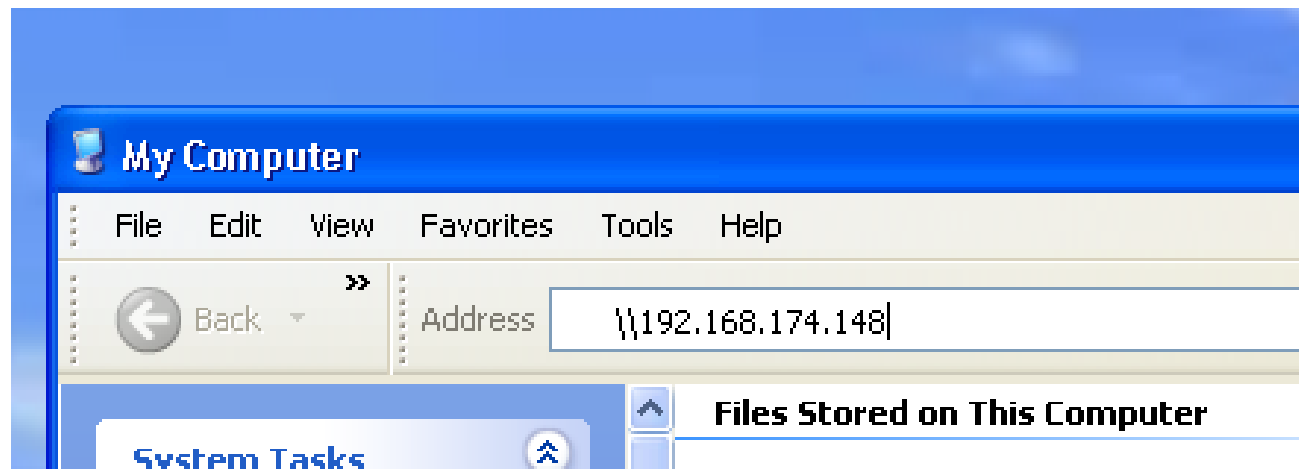
From the client computer that needs to access the shared files, go to \\<private ip address of the computer that is sharing the files> (continued)

- Step 817:

Type in

\\<IP address of the Windows 1 computer>

inside the "Address" field of the "Address bar"



- Big Step 800:

From the client computer that needs to access the shared files, go to \\<private ip address of the computer that is sharing the files> (continued)

- Step 818:

Press the enter key of the keyboard

- Big Step 800:

From the client computer that needs to access the shared files, go to \\<private ip address of the computer that is sharing the files> (continued)

- Step 819:

Enter in a valid username and password for the "Windows 10" computer, if prompted to do so:





- Big Step 800:

From the client computer that needs to access the shared files, go to \\<private ip address of the computer that is sharing the files> (continued)

- Step 820:

You should now be able to use your Windows XP computer to access the shared files and folders in the Windows 10 computer:

