Installing Novell NetWare for Remote Windows 95/98 Clients

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It is possible for users to access their files kept on the Physics Department Windows NT and Novell NetWare network from home or from other remote locations, like a distant laboratory. This tutorial will show you the steps for configuring your remote computer and for installing the NetWare client software.

The first step is that you need to tell Windows the IP numbers for our WINS servers. WINS is a service that tells your computer where to find other Windows computers on the network. In Windows 95/98, if you right-click on the "Network Neighborhood" icon and select "Properties" you get the Network configuration window. There should be an entry here under the "Configuration" tab for the TCP/IP settings of your network card (don’t confuse this with the similar entry for any dial-up adapters you might have).

Double-clicking on this entry should open a window for those settings. If you are away from KSU the local network manager will either give you an IP address that you would enter under the "IP Address" tab, or he’ll tell you that they automatically issue numbers using DHCP, in which case you check the box that says "Obtain an IP address automatically". Under no circumstances should you have any KSU IP number (starting 129.130.*.*) here.

Under the "WINS Configuration" tab, select "Enable WINS Resolution". Now type in 129.130.4.1 and hit the "Add" button. Then type in 129.130.5.151 and "Add" again. You may need to ask the local network administrator for the local WINS server address to add here, too.
Finally you may need to enter a local gateway IP address under the "Gateway" tab. Again, the local administrator will tell you this.

With all these things set, you can click all the "OK" buttons all the way out of these windows. Windows will update the settings and may ask for a setup CD or a path to the setup files, after which it will reboot.

At this point you should be able to surf the net and you should be able to browse the Physics NT network. All of the computers with shared resources will be visible except the NetWare server, called "Trajan". This is where the new "O:" drive and personal home spaces live. The old "O:" drive on the NT server, "LAPD714" is visible.

To get NetWare working, you need to have the Novell client software installed on your computer. We are licensed to freely distribute this software to our users, so there’s no problem with anyone installing this at home, on a laptop or wherever. If you’re reading this, you must have the CD-ROM. Put it in your drive and launch the Windows Explorer.

Find and double-click the directory on the CD-ROM named "Win95v46"; in this directory double-click on "Winsetup.exe". The "Novell ZENworks and Clients" installation window will appear. Click on "English" to start the English language installation. Now click on "Windows 95/98 Client", followed by "Install Novell Client". Carefully read the License Agreement, consult your legal advisor, and then click "Yes" anyway ?.

Select the "Custom" installation option and click "Next". Select "IP Only" as the preferred protocol and be sure that the box labeled "Remove IPX if present" is checked. Click "Next" again. Now select "NDS (NetWare 4.x or higher)" and click "Next".

Now you have a list of several different add-on utilities and services to choose from. The boxes for "Novell Workstation Manager" and "Novell Distributed Print Services" should be pre-selected; make sure they are checked. Do not select anything else! Click on "Install" and the software will be copied into your computer.

At this point you will be prompted to tell the client where to connect to. Click "Yes" when asked if you would like to set these properties. The
"Novell NetWare Client Properties" box appears. Our "Preferred Server" is called "Trajan", our "Preferred Tree" is "Phys", and our "Name Context" is "KSU". Once these are entered, click "OK". More file copying will happen; when this is finished you'll be prompted to reboot. Click "Reboot" and be sure that your machine really does restart.

If you are connected to our network, when Windows returns you should see the Novell "splash screen" briefly appear, and you will then get a Novell logon prompt. Click the "Advanced" button. Make sure that the "Tree", "Context" and "Server" fields are all filled in as described above. Enter your Username and Password. Windows should log you in.

If you're connected to somebody else's network, you'll probably get the Novell logon prompt, but it won't log you into the local server. If the Novell logon fails, it should then offer you a generic Windows logon. That should work, and you can continue as below.

If you aren't connected to a network, you'll get a generic Windows 95 logon prompt. Again, enter your username and password. Windows may complain about not finding the NT domain server and may prompt you for your network logon; just click "OK" all the way through this. It doesn't matter right now.

Once again, right-click on the "Network Neighborhood" icon and select "Properties". Double-click on "Novell Network Client" under the "Configuration" tab. Select the "Service Location" tab in the window that pops up and find the "Directory Agent List" box. Enter "129.130.5.99" in this box and click "Add". Check the check boxes labeled "Static" and "Active Discovery". Click "OK" to close this window and "OK" again to finish.

Your machine may want the Windows installation CD-ROM (or the location of the Windows setup files) at this point. Once it finishes copying files, your installation is complete. The paranoid may want one final reboot at this point.

If you are connected to a network, you can now log onto the Novell system at any time by right-clicking the Novell icon in the tray and selecting "NetWare Login". On start-up, you should get a Novell logon prompt that,
as above, should work on the Physics network but might not on somebody else’s. Again, you should then get a Windows logon prompt, after which you can call up a Novell logon prompt by right-clicking the icon in the tray.

If you are connecting by dial-up telephone line, you’ll get that generic Windows logon prompt at startup and you’ll need to use Windows Dial-Up networking to establish a connection. Once connected, you can right-click the Novell tray icon or the "Network Neighborhood" icon to get to the Novell logon prompt. The logon is slow over a dial-up line, so please be patient (and don’t use it if you don’t really need it). With a 28.8k modem, it takes around 5 to 6 minutes to complete the full logon and mapping of network disk drives. We’re working on ways to streamline and customize this in the future. For now, be patient and use this time to go to the kitchen and get a snack.