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# Lab 8B: Configuring the WINS Client for Windows XP Professional

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## Objectives

After completing this lab, you will be able to:

- Configure the WINS client on a computer running Microsoft® Windows® XP Professional.
- Import a LMHOSTS file in Windows XP Professional.

## Prerequisites

Before working on this lab, you must have:

- Knowledge about the WINS server service.
- Knowledge about the WINS client service.
- Basic understanding about TCP/IP names resolution.

**Estimated time to complete this lab: 15 minutes**

## Exercise 0

### Lab Setup

Tasks	Detailed steps
1. Log on to the nwtraders domain as DomAdmin with a password of <b>dompass</b> .	<ul style="list-style-type: none"><li>a. Press CTRL+ALT+DELETE to open the logon screen.</li><li>b. Type <b>DomAdmin</b> in the <b>User Name</b> box.</li><li>c. Type <b>dompass</b> in the <b>Password</b> box, ensure that the NWTRADERS domain is selected in the <b>Log on to</b> box, and then click <b>OK</b>.</li></ul>
2. Run Labfiles.exe from the labfiles folder on the student CD-ROM to create the files and folders needed to complete this lab.	<ul style="list-style-type: none"><li>a. Click <b>Start</b>, and then click <b>Run</b>.</li><li>b. In the <b>Run</b> dialog box, type: <i>CD-ROM:\labfiles\labfiles.exe</i></li><li>c. Click <b>OK</b>.</li></ul>



## Exercise 1


### Configuring the WINS Client

In this exercise, you will configure a computer running Windows XP Professional to use a primary WINS server for NetBIOS name resolution.

#### Scenario

Your organization has an application that uses the NetBIOS protocol. This application is used by 5 percent of the computers running Windows XP Professional. Because these computers are the only computers that require NetBIOS name resolution, you have decided that WINS server address information will not be supplied by the organization's DHCP service. You need to configure the WINS client service on the 5 percent of the computers that use this application.

Tasks	Detailed steps
1. Use the <b>ping</b> utility to view the IP address of the instructor's server computer, named London.	<ol style="list-style-type: none"> <li>Click <b>Start</b>, and then click <b>Run</b>.</li> <li>In the <b>Run</b> box, type <b>cmd</b> and then press ENTER.</li> <li>At the command prompt, type <b>ping london</b> and then press ENTER.</li> </ol> <p> <i>Note that even though you typed the computer name of the instructor computer, <b>ping</b> returned the IP address.</i></p>
Document the London computer's IP address.  <hr/> <hr/>	
1. (continued)	d. Close the Cmd.exe window.
2. Configure the WINS client to use the instructor's server as the primary WINS server.	<ol style="list-style-type: none"> <li>Click <b>Start</b>, and then click <b>Control Panel</b>.</li> <li>On the Pick a Category page, click <b>Network and Internet Connections</b>.</li> <li>Under Pick a Control Panel, click <b>Network Connections</b>.</li> <li>Right-click <b>Local Area Connection</b>, and then click <b>Properties</b>.</li> <li>Click <b>Internet Protocol (TCP/IP)</b>, and then click <b>Properties</b>.</li> <li>Click <b>Advanced</b>, and then click the <b>WINS</b> tab.</li> <li>On the <b>WINS options</b> page, click <b>Add</b>, and then type the IP address of the Instructor server computer, which is <b>London</b>, and then click <b>Add</b>.</li> </ol> <p> <i>Notice that the IP address was added to the <b>WINS addresses, in order of use</b> box.</i></p> <ol style="list-style-type: none"> <li>Click <b>OK</b> three times and then close the <b>Network Connections</b> window.</li> </ol>

Tasks	Detailed steps
3. Use nbtstat to verify the WINS configuration.	<ul style="list-style-type: none"><li>a. Click <b>Start</b>, and then click <b>Run</b>.</li><li>b. In the <b>Run</b> box, type <b>cmd</b> and then press ENTER.</li><li>c. At the command prompt, type <b>nbtstat -n</b> and then press ENTER.  <i>This displays the NetBIOS local name table. Notice the Registered status for the names.</i></li><li>d. Type <b>exit</b> and press ENTER.</li></ul>


## Exercise 2



### Import a Lmhosts File

In this exercise, you will import an Lmhosts file, and use nbtstat and ping to verify the Lmhosts lookup process.

### Scenario

A server that does not register with WINS needs to be accessed through NetBIOS for only a few of the computers running Windows XP Professional. You have decided to create a centralized Lmhosts file to resolve the server name to an IP address, and import this file to the Windows XP computers that need to access this server.

Tasks	Detailed steps
1. Ping a server called contoso.	<ol style="list-style-type: none"> <li>Click <b>Start</b>, and then click <b>Run</b>.</li> <li>In the <b>Run</b> box, type <b>cmd</b> and then press ENTER.</li> <li>Type <b>ping contoso</b> and then press ENTER.   <i>Notice the error message stating that contoso cannot be found.</i></li> <li>Type <b>exit</b> and then press ENTER.</li> </ol>
2. Edit the C:\MOC\2272A\Labfiles\Mod8\lmhosts file to replace the x with your classroom number.	<ol style="list-style-type: none"> <li>Open Notepad and then select <b>File</b>, then <b>Open</b>. Type <b>C:\MOC\2272A\Labfiles\Mod8\lmhosts</b> and then click <b>Open</b>.</li> <li>Replace the <b>x</b> with your classroom number (the classroom number is the third octet of your IP address).</li> <li>Close Notepad, and click <b>Yes</b> to save the changes.</li> </ol>
3. Import the lmhosts file.	<ol style="list-style-type: none"> <li>Click <b>Start</b>, and then click <b>Control Panel</b>.</li> <li>On the Pick a Category page, click <b>Network and Internet Connections</b>.</li> <li>Under Pick a Control Panel, click <b>Network Connections</b>.</li> <li>Right-click <b>Local Area Connection</b>, and then click <b>Properties</b>.</li> <li>Click <b>Internet Protocol (TCP/IP)</b>, and then click <b>Properties</b>.</li> <li>Click <b>Advanced</b>, and then click the <b>WINS</b> tab.</li> <li>Click <b>Import LMHOSTS</b>. In the <b>File name</b> box, type <b>C:\MOC\2272A\Labfiles\Mod8\lmhosts</b> and then click <b>Open</b>.</li> <li>Click <b>OK</b> three times and then close the <b>Network Connections</b> window.</li> </ol>

Tasks	Detailed steps
4. Use nbtstat to refresh the NetBIOS name cache and ping contoso.	<p>a. Open a command prompt and type <b>nbtstat -R</b> and then press ENTER.</p> <p>b. Type <b>nbtstat -c</b> and press ENTER.</p> <p> Notice that contoso is now listed in the NetBIOS Remote Cache Name Table, and its services are registered.</p> <p>c. Type <b>ping contoso</b></p> <p> You receive a response from contoso since it is listed in the lmhosts file. Notice the IP address of contoso is the IP address for London.</p> <p>d. Close all windows and log off.</p>