

Name Resolution

To test name resolution, at a DOS prompt on the offending workstation, enter the following commands...

PING 10.0.0.2 (or whatever the IP address is of the server)

And

PING FS1 (or whatever the name is of the server)

If name resolution is not working properly, then PING by name will take considerably longer or fail altogether, but PING by address will work. Check WINS and/or DNS configuration on the workstation with...

- ❑ WINIPCFG->MoreInfo
- ❑ Check the DNS entries for an entry that matches the server IP-address.
- ❑ On the server, check Services to see that DNS is running.
- ❑ Check DHCP -Scope->Global settings to make sure the DNS addresses are being provided by the server to the DHCP clients and the addresses are correct.
- ❑ Check the TCP/IP properties of the server NIC to make sure that DNS entries also point back to the server. The server is also a client of its own DNS service.

If necessary add a file (named HOSTS) to the workstation. Place the HOSTS file in the directory indicated below...

- ❑ For Win9x = C:\WINDOWS
- ❑ For Windows 2000 - (Server or Pro) = C:\WINNT\system32\drivers\etc\hosts

The HOSTS file should contain the following...

127.0.0.1	localhost
(IP Address of server)	(servername)

Sample HOSTS file

127.0.0.1	localhost
10.10.1.1	FS1

If the HOSTS file already exists, simply add the lines to the existing HOSTS file...for example when completed the file C:\WINDOWS\HOSTS might read as follows in the case where the 1st two lines were added by Norton AntiVirus for e-Mail scanning.

127.0.0.1	pop3.norton.antivirus	# Added by NAV
127.0.0.1	pop3.spa.norton.antivirus	# Added by NAV
127.0.0.1	localhost	
192.168.1.0	FS1	# 10.10.1.1 = IP Address of server FS1

Note that the file HOSTS is a text file but its name is just **HOSTS**, not **HOSTS.TXT**.

If on a Win2000 server, allow dynamic updates are set to NO, name resolution will not work and host records for Win2000 client machines will not be automatically updated in the DNS forward lookup zone table.

NOTE: On Win2000 Server...

1. Open Start/Programs/AdminTools/DNS.
2. Expand **Forward Lookup Zones**
3. Right-click the domain name (i.e. **corp.westernfloors.net**) and select **properties**.
4. Under the General tab set **Type** to **Active Directory-integrated** and **Allow dynamic updates** to **Yes**.
5. After making any changes to DNS, stop and re-start the **Net Logon service**.

NOTE: Win9x machines will not auto-update DNS records.

WINS is used by Win9x workstations, not Win2000 workstations. Hence if all client machines are Win2000, then WINS service will not be used...only DNS will be used; however, because Win9x workstations use WINS instead of DNS, one must enable WINS (forward) & WIN-R (reverse) lookup support within DNS on a Win2000 server or Win9x machines will be unable to find a DOMAIN server even though they are able to both PING the Win2000 server and obtain a DHCP lease from the Win2000 server.