Remote Booting With DOS/Win Client 32 *(Last modified: 11MAY1998)*

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Symptom

The customer wants to use the DOS/WIN Client 32 over Vlms because of its smaller footprint in conventional memory. He wants to use Diskless workstations to combat problems of rampant virus infection. He needs to configure a remote boot of WIN 3.11 with the DOS/WIN Client 32. However, the current version of DOS/WIN Client 32 does not support remote booting:

Solution

This is a work-around rather than a solution. For this work-around to work all workstations must have a minimum of 16MB of RAM. The idea is to create a boot image using VLMs (which does support remote booting). One of the things that the boot image does is to create a 9MB RAM Drive (Drive C:) on the workstation to simulate a hard disk. During the boot-up process the files contained in the boot image and files placed in the login directory are copied to the C: Drive (which is the RAM Drive). Once the machine has booted, the C: Drive now has all the software components necessary to run the Client 32. The VLMs are unloaded and the Client32.NLM is loaded, freeing a huge amount of conventional memory.

Setup a diskette with the following files and boot files:

CONFIG.SYS:
```
device=himem.sys
device=emm386.exe noems
device=ramdrive.sys 9000 512 256 /e
dos=high,umb
lastdrive=Z
```

AUTOEXEC.BAT:
```
@ECHO OFF
copy *.* c:\>NUL
set comspec=C:\COMMAND.COM
C:
STARTNET
```

STARTNET.BAT:
```
SET NWLANGUAGE=ENGLISH
NIOS.EXE
LOAD LSLC32.NLM
LOAD CMSM.NLM
LOAD ETHERTSM.NLM
LOAD 3C59X.LAN FRAME=ETHERNET_II
LOAD IPX.NLM
REM LOAD CLIENT32.NLM
VLM
COPY  F:CLIENT32.NLM C:\ > NUL
VLM /U
```

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```
REN net.cfg net.one > NUL
REN net.two net.cfg  > NUL
Load Client32.NLM
Login


Dir A:


 Volume in drive A has no label
 Volume Serial Number is 1915-11F2
 Directory of A:\


COMMAND  COM        54,619  09-30-93  6:20a COMMAND.COM
HIMEM    SYS        29,136  09-30-93  6:20a HIMEM.SYS
EMM386   EXE       120,926  05-31-94  6:22a EMM386.EXE
NET      CFG         3,675  05-21-96 11:54a NET.CFG
AUTOEXEC BAT            72  05-17-96  4:23p AUTOEXEC.BAT
NIOS     EXE       239,117  04-18-96  3:26p NIOS.EXE
LSLC32   NLM        18,571  02-27-96 10:31a LSLC32.NLM
CMSM     NLM        57,120  03-28-96  2:41p CMSM.NLM
ETHERTSM NLM        14,411  03-11-96  3:40p ETHERTSM.NLM
3C59X    LAN        26,863  02-02-96  3:12p 3C59X.LAN
IPX      NLM       113,726  03-19-96  9:09a IPX.NLM
VLM      EXE        37,651  06-16-95 12:39p VLM.EXE
NBIHW    CFG             0  05-17-96 12:12p NBIHW.CFG
STARTNET BAT           166  05-21-96 11:55a STARTNET.BAT
RAMDRIVE SYS         5,873  03-10-93  6:00a RAMDRIVE.SYS
CONFIG   SYS           109  05-17-96  4:20p CONFIG.SYS
NET      TWO         3,675  05-20-96  4:18p NET.TWO
CONN     VLM        10,850  06-16-95 12:40p CONN.VLM
IPXNCP   VLM        10,116  06-16-95 12:40p IPXNCP.VLM
TRAN     VLM         1,562  06-16-95 12:40p TRAN.VLM
SECURITY VLM         8,011  06-16-95 12:40p SECURITY.VLM
BIND     VLM         4,713  06-16-95 12:40p BIND.VLM
NWP      VLM         6,661  06-16-95 12:40p NWP.VLM
FIO      VLM        18,250  06-16-95 12:41p FIO.VLM
GENERAL  VLM         4,958  06-16-95 12:41p GENERAL.VLM
REDIR    VLM        14,842  06-16-95 12:40p REDIR.VLM
PRINT    VLM         8,005  06-16-95 12:40p PRINT.VLM
NETX     VLM        17,230  06-16-95 12:41p NETX.VLM


Notes:
1) Note that in the config.sys file - the RAMDRIVE is 9MB.
2) This requires machine to have at least 16MB of RAM.
3) There are two "net.cfg" files; the first one is the net.cfg file used by the VLMs during remote boot.
This one has "Packet Burst = 0" to avoid the FIO.VLM error.
4) There second "net.cfg" - "net.two" has "Packet Burst = 1" - this is used by the Client32.
5)Place the Client32.NLM and its message files in the F:\Login Directory
```

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