
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
```

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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