The plan for your LAN:
Share files over a network between your Apple II and a modern computer
Ingredients:

- Apple IIgs, or
- Apple IIe enhanced with Workstation Card
- LocalTalk to Ethernet bridge
- A modern Mac or PC
- Oracle VirtualBox 4.0.12
- A2SERVER, from http://appleii.ivanx.com
A Diagram Is Worth Over 9000 Words

Apple IIe or IIgs

LocalTalk bridge

Ethernet cable

router or switch (optional)

Ethernet cable

A2SERVER (Mac or PC)
A2SERVER, what is it?

- Premade Virtual Machine, to be distributed as VirtualBox Appliance at http://appleii.ivanx.com
- Comes ready to share files on the network to Apple II, Mac, and Windows clients
- Easy to enable ProDOS 8 netbooting for Apple Ile and Ilgs computers
- GS/OS netbooting requires install disks...for now
GS/OS netbooting

• Custom Install Network: AppleShare3.5 to an 800K floppy
• Boot it, mount A2SERVER, run Installer, install Network: Server Startup with A2SERVER as target (two drives helps)
• If it wants a ProDOS 8 startup app, boot from floppy and select GS/OS in Network control panel
• Working on a self-install from Linux solution (no actual install disks required)
Lunix? Why?

• Mac OS X? No. Not any version.
• iOS? No.
• Windows? Ancient expensive 3rd-party software, and no netboot
• Lunix still has an AppleTalk stack.
A2SERVER, what’s in it?

- Ubuntu Server 11.04 32-bit edition
- netatalk 2.1.5 with a2boot enabled, and all sign-in encryption methods supported
- avahi-daemon, for mdns (Bonjour) discovery
- samba, for file sharing to Windows clients
- utilities for working with Apple’s obsolete disk image formats
- scripts written by yours truly to make it all easy
Apple has named some things confusingly.

- LocalTalk is a kind of physical cabling, like Ethernet
- AppleTalk is a network data protocol, like TCP/IP, which can be used with LocalTalk or Ethernet
- AppleShare (AFP) is a file sharing protocol which can be used over AppleTalk or TCP/IP
- AppleTalk over Ethernet is sometimes referred to as EtherTalk
- Confused yet?
LocalTalk to Ethernet for Apple IIe Workstation Card:
recommended transceivers

- Farallon EtherWave PN842/848 (AC power)
- Farallon EtherMac/iPrint PN55x (except PN553)
- Dayna EtherPrint (except EtherPrint Plus)
- Cayman Gatorbox 10001 and 10004
- LocalTalk Bridge control panel for Classic Mac with Ethernet & LocalTalk
LocalTalk to Ethernet for Apple IIgs: recommended transceivers

• Works:
  • LocalTalk Bridge control panel for Classic Mac with Ethernet & LocalTalk

• Rumored to work:
  • Cayman Gatorbox 10001 and 10004

• Works for netbooting GS/OS, but not accessing network volumes once booted:
  • Dayna EtherPrint (except EtherPrint Plus)
DO NOT WANT

• Asante EtherTalk or EtherPrint -- evar
• Farallon EtherWave/EtherMac (great for IIe, bad for IIgs)
U WANT DIY? OK

- Full server setup instructions from the top are at http://apple.ivanx.com
Credit where it’s due

- Steven Hirsch
- Geoff Body
- Tony Diaz
- Peter Wong
- comp.sys.apple2
- you
Plans, Q&A, etc

- What is up with these dumb half-functional transceivers on IIgs???
- bare metal GS/OS netboot
- NAS!