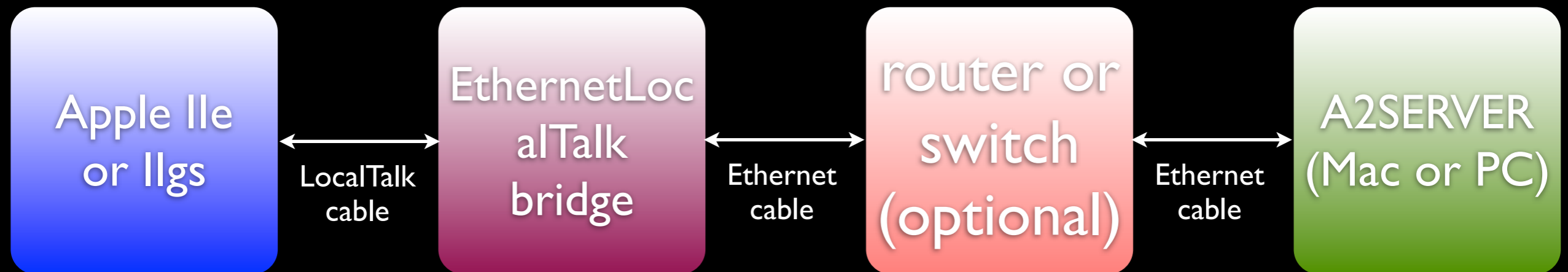


The plan for your LAN:
Share files over a
network between your
Apple II and a modern
computer

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



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 IIe and IIgs 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 ILe, 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!