

Mac OS X Playing nice in a heterogeneous world PRESENTED BY:Charles Edge



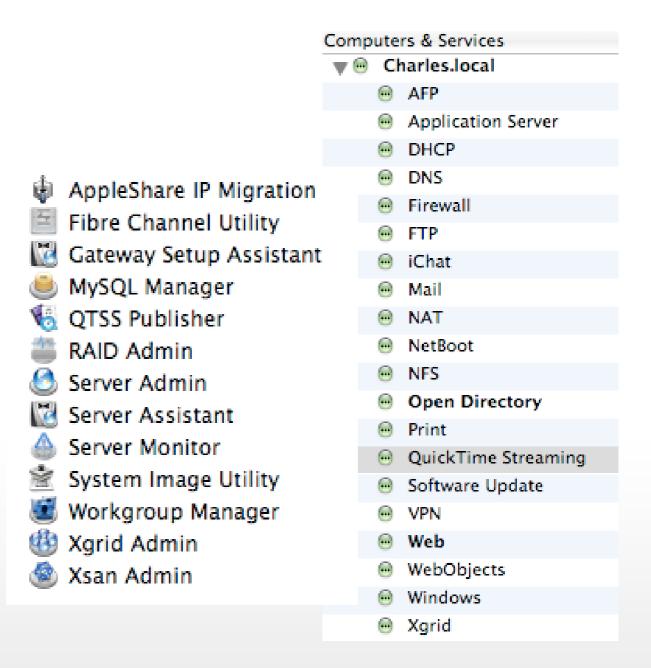
- Charles Edge, MCSE, CCNA, ACSA, Network+
- Partner, Three18 Consulting firm in Santa Monica, California
- Author, Mac Tiger Server Little Black Book and Web Admin Scripting Black Book

- Xcode, AppleScript Studio and Web languages offers a development environment that is fairly easy to pick up and robust.
- OS X has X11, bash/tcsh/sh built in
- OS X has most of the same CLI stuff that most flavors of BSD and Linux. AIX/Solaris gurus might have more differences to learn
- Most CLI tools have GUI apps either available on the web or in the OS, such as Kerberos

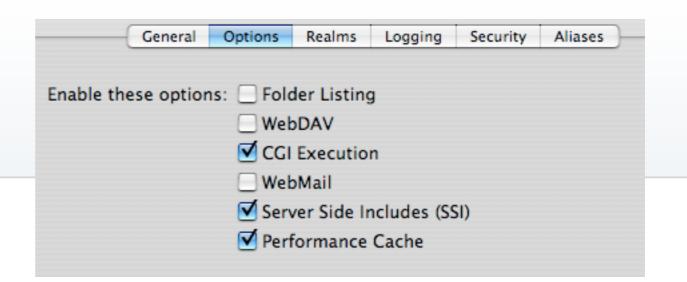
- Much of the OS is similar but there are some key differences:
 - rc.local and rc.common are not meant to be changed, launchd is meant to be used
 - Darwin is open source but Aqua (the GUI) is not – Apple is aggressive about this
 - Not all packages have been ported
 - Darwinports can be used to find lots of software that has already been ported

Mac OS X Server Open Source Made Easy

- Essentially Mac OS X Server is a FreeBSD server with a NetInfo database that acts like a Windows Registry
- Very similar to
 Webmin but with a larger user base





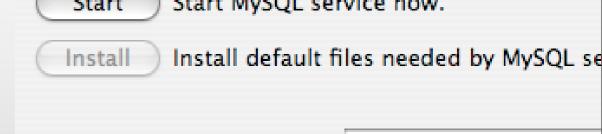


- Apache 1.3.33
- SSI, PHP, Perl, Tomcat, Ruby can be enabled by clicking a checkbox
- Performance Cache, realms and virtual hosts are easily setup as well
- WebDAV can be used as a more secure alternative to providing FTP-style access to remote users





- Distrib 4.1.13a
- Every client I've worked on so far that uses MySQL on Mac servers also uses phpMyAdmin to administer the server
- MySQL can be turned on by simply assigning a root password and clicking on the Start button
- You can easily upgrade to the latest version of MySQL using DarwinPorts

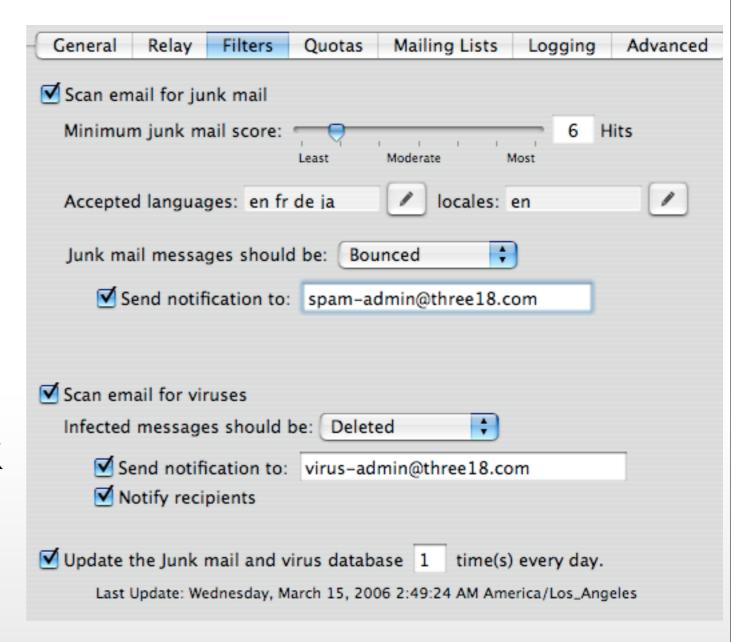


Verify:

New MySQL root password:

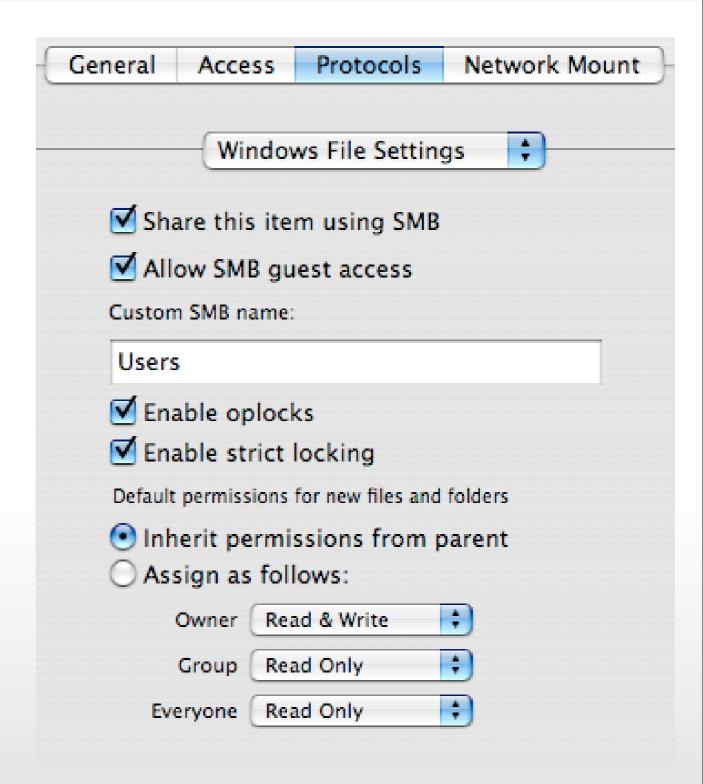


- Easy GUI for Postfix
- Manage multiple domains from a GUI
- SpamAssassin and ClamAV are built in
- MailMan services available with a click
- Automatically update virus and spam databases

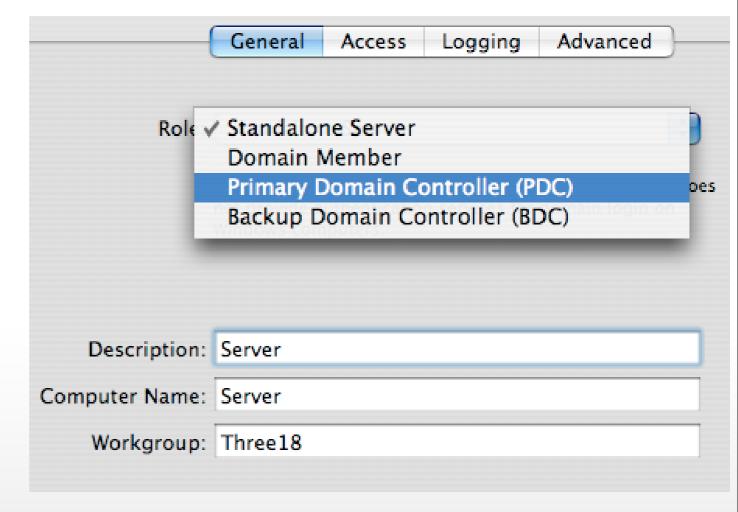




- Version 3.0.10 enabled just by clicking start
- Share files with Windows stations easily
- Rather than creating share points in a configuration file you can use a GUI

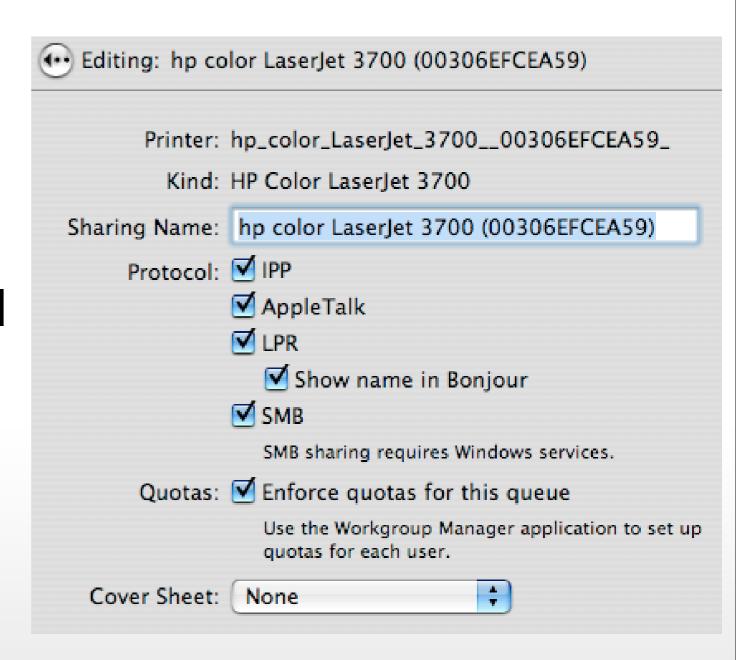


- NTLMv2, NTLM, LAN Manager enabled by default
- Enable PDC or BDC for NT 4.0 style domain services
- Works with Active Directory and has a migration wizard from NT 4.0 based domains



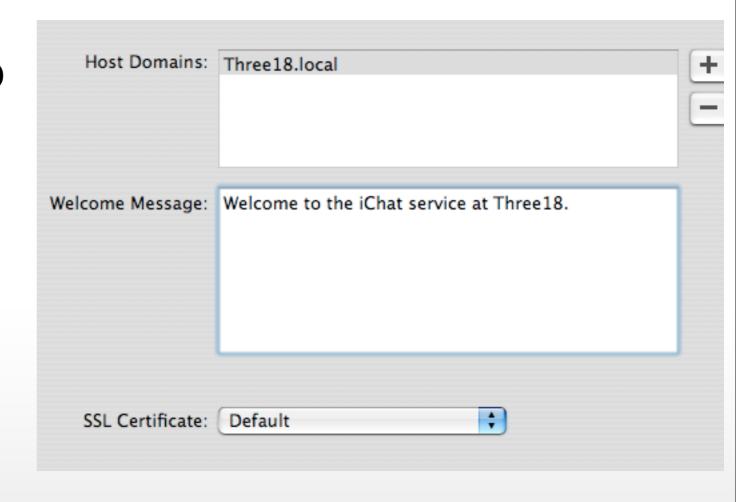


- By default cupsd listens on all adapters
- Printers can be shared and reshared over any protocol – including LPR, SMB and IPP
- Printer quotas can be configured for users or groups



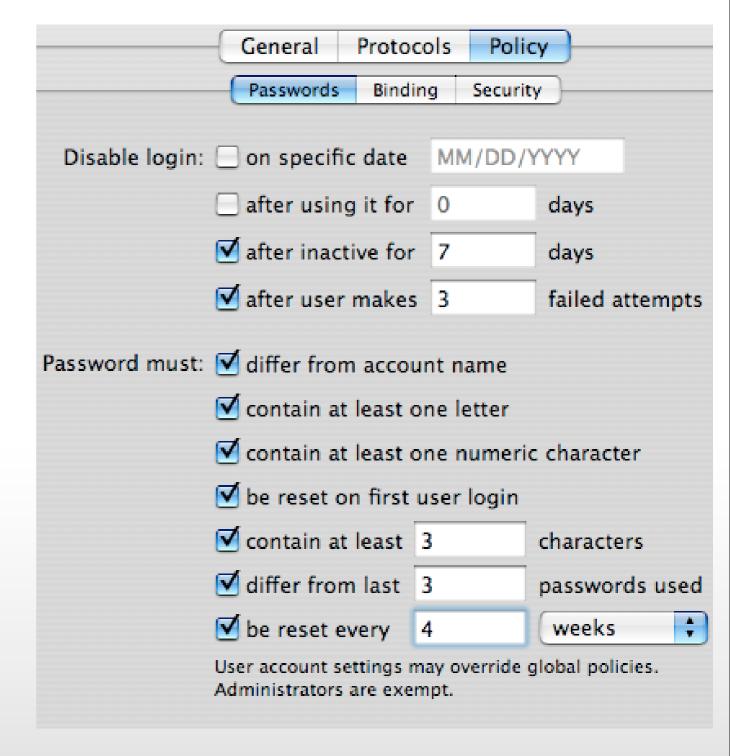


- iChat Server uses
 Jabber (1.x) to
 provide audio, video
 and text messaging
- SSL Certificates help keep things safe
- Jabber can run for multiple domains helping to separate departments

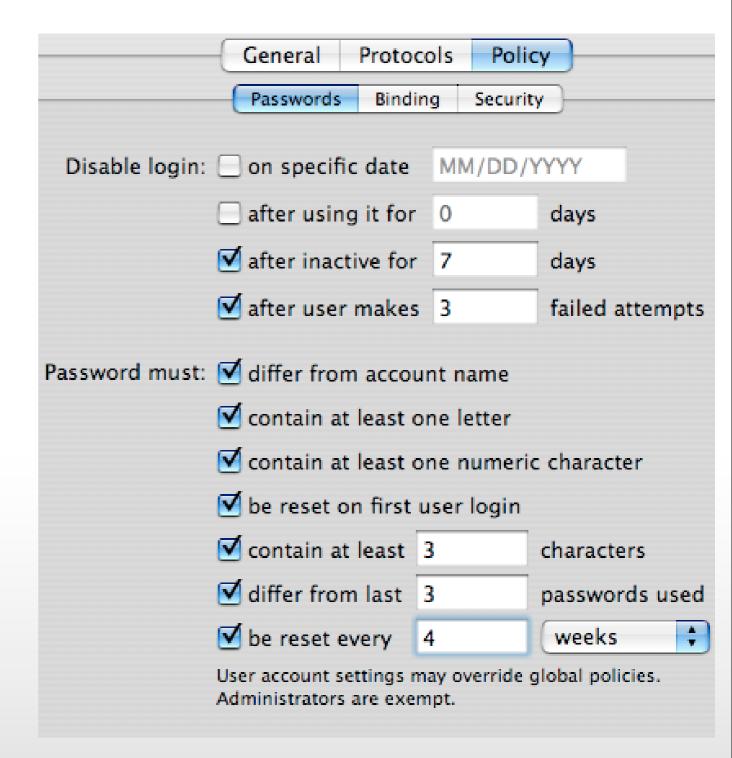


Directory Services Open Directory

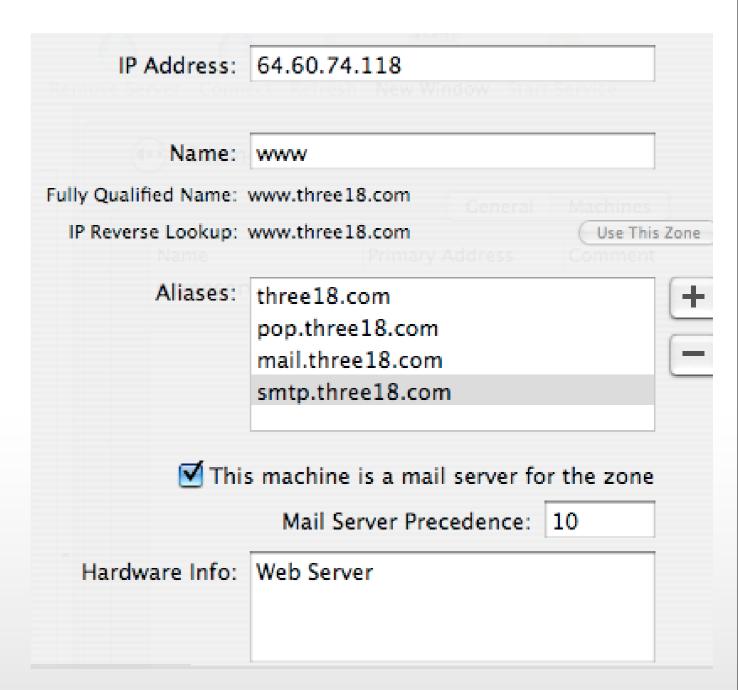
- OpenLDAP, SASL, Kerberos and other Directory Service Standards incorporated as Open Directory
- Works with Active Directory
- Allows for shared username and password databases



- Using the Active
 Directory Plug-in
 you can cross-realm
 with AD
- You can also crossrealm with Sun ONE and iPlanet
- In a cross-realmed environment one directory service is used for authenti

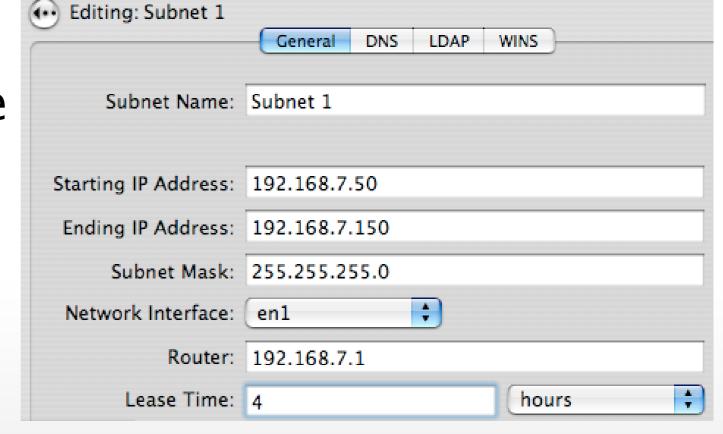


- DNS services are easy to configure
- You can still use the configuration files
- Tiger Server represents a change in the way that Apple views DNS – IPs get names, names don't get IPs

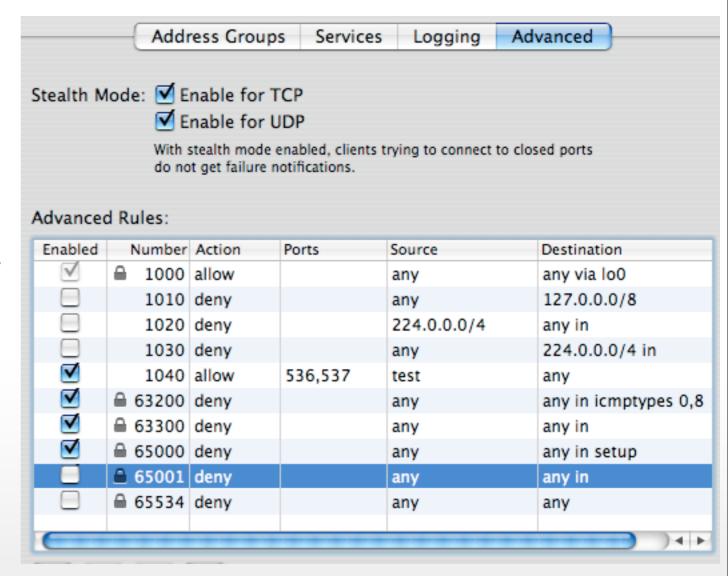




- DHCP is easy to setup and use
- LDAP settings can be deployed dynamically
- OS X Server can run Multiple subnets on one Network Interface

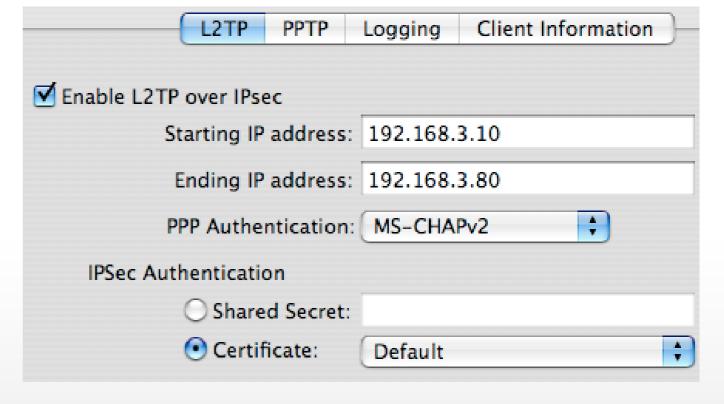


- Apple provides the Gateway Setup
 Assistant to help setup NAT
- IPFW rules can easily be copied between systems and written using a GUI
- Dummynet can be used to shape traffic



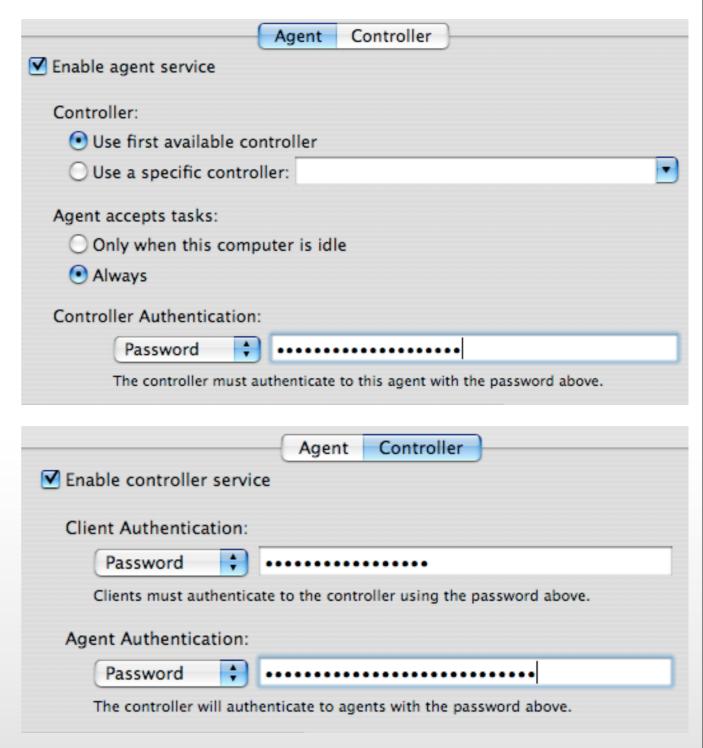


- Open Source VPN
 Standards (openVPN)
 easily configured
- Supports PPTP and L2TP
- s2svpn allows admins to configure site based VPNs – not the greatest feature in the world...



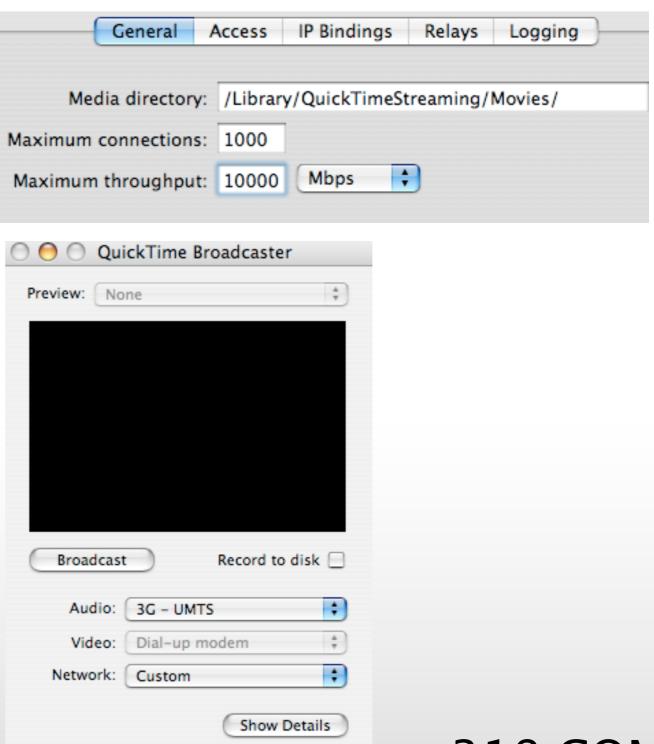


- TNFTP is installed by default
- Apple has integrated the ftpusers file into NetInfo allowing you to use a GUI to restrict traffic for FTP users to specific folders

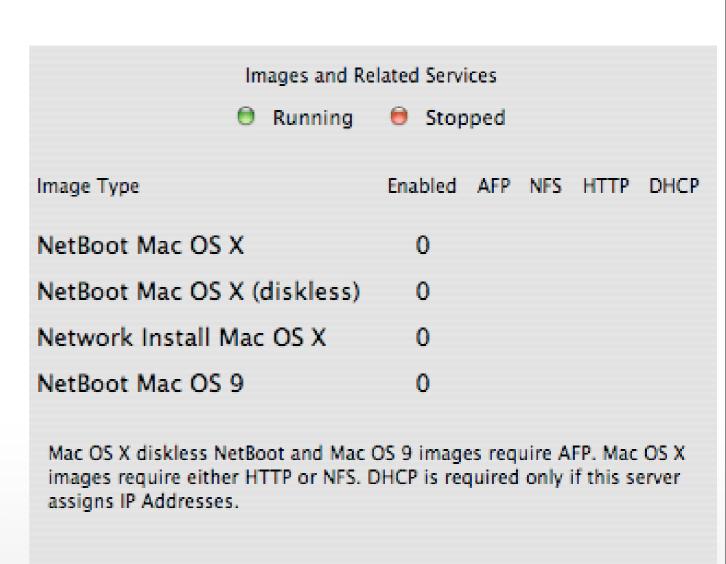


QuickTime Streaming Simple radio

- QT Broadcaster has live broadcasts of video and audio, acting as a radio or television station
- QuickTime can also store audio and video for on demand
- Protect audio/video
- Linux compat.



- Use a centralized image store to run multiple systems
- Client systems boot to different images for different roles
- Clients home folders are stored in Open Directory





Questions and Answers