OSX Leopard Server:
Soup to nuts in 45 minutes

Dr. Bill Wiecking

Hawai'i Preparatory Academy

Apple Distinguished Educator

wiecking@mac.com

Goals:

1. Understand what is new about OSX Leopard Server
2. Determine which of these fits your needs in education
3. Learn what other add-on programs can make this even better

Mac Servers: a brief history

- AppleShare 1.0-the preCambrian era
- AppleShare IP (ASIP) 5.0 is still running in some schools
- OSX server 1.0 (a.k.a. NEXT): routed appletalk, ca. 1999
- OSX server-the real deal
  - 10.0 Cheetah-use at your own risk
  - 10.1 Puma-much more stable ("Cheetah SP1")
  - 10.2 Jaguar-stable, improved mail
  - 10.3 Panther-included a VPN server
  - 10.4 Tiger-stable, more network resources, Intel support
  - 10.5 Leopard-RADIUS included, weblogs improved, many more...

Mac OS X Server

Features

- Setup and Admin
- iCal Server ←
- Wiki Server ←
- Podcast Producer ←
- Spotlight Server ←
- iChat Server
- File Sharing
- Mail Services
- Web Hosting
- Directory ←
- Client Management
- Networking and VPN

Leopard Server-
Notice anything new?
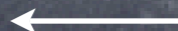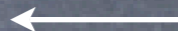
Something old, something new, something borrowed, something blue:

- AFP
- FTP
- Web-add Rails
- QTSS
- mySQL
- Open Directory
- ARD Remote Desktop
- iChat server
- VPN
- Firewall/NAT/ DHCP
- Webmail
- Spam/virus
- Xgrid
- NTP
- swupd
- netboot/install
- LPR
- App servers

- Wiki
- RSS server
- iCal server
- Podcast producer
- Time Machine server

- Weblogs (blojsom)
- RADIUS (freeRADIUS)

- Windows/SMB
- Spotlight Server

Your campus: The Leopard Era

- Leopard Server:
  - Weblogs and Wikis now truly professional looking
  - iChat Server allows for Video Teleconferencing intramural and extramural (mura means wall in latin)
  - iCal server: school schedule on laptops, iPhones, any webDAV calendaring device
  - Home page streaming: allows streaming of lectures, projects, interviews
  - Podcast Producer: allows for real time production of lecture archives from any ichat camera (e.g. laptop)
  - Webmail: great access, built-in spam and virus filters
  - Software update server: update all local machines from one server
  - Web server: supports Ruby and other new protocols
  - VPN server: allows safe connection from home/wireless access
  - about 20 other cool things you can use to improve how we educate our students
  - http://www.apple.com/server/macosx/features/

Something for everyone:

- Student users:
  - Student portfolios in html, shared documents as pdf
  - Weblogs (see http://facstaff.hpa.edu/weblog/bwiecking/) now improved with attachments, lists, formatting (more on this later)
  - AFP for shared folders: Faculty to faculty, student to student, others
  - Webmail and Wikis for collaboration
  - WebDAV makes collaborative web pages possible (see google apps)
  - Podcast producer makes recording and streaming student presentations much easier
  - QTSS broadcaster can be used to share student projects
  - iCal server for collaboration
  - VPN for secure home access

Something for everyone:

- Faculty users:
  - Online grades (see gradekeeper: http://www.gradekeeper.com) using Sites folders
  - Weblogs (see http://facstaff.hpa.edu/weblog/bwiecking/) now improved with attachments, lists, formatting (more on this later)
  - AFP for shared folders: Faculty to faculty, student to student, others
  - Webmail and Wikis for collaboration
  - Spotlight server can now track plagiarism
  - Podcast producer makes recording and streaming lectures, student presentations much easier
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  - iCal server for collaboration
  - VPN for secure home access
  - iChat server for professional development

Something for everyone:

- Staff users:
  - School web pages with current information
  - Weblogs (see http://facstaff.hpa.edu/weblog/bwiecking/) now improved with attachments, lists, formatting (more on this later)
  - AFP for shared folders: Faculty to faculty, student to student, others
  - Webmail and Wikis for collaboration
  - QTSS broadcaster can be used to share admin messages with parents, faculty, students, also training materials
  - iCal server for collaboration
  - VPN for secure home access

Something for everyone:

- sysadmin users:
  - Mail server runs Postfix now for increased stability
  - DNS server as master or slave
  - LPR server for printer pools, remote printing
  - iChatAV for collaboration, help desk
  - RADIUS for central admin of wired and wireless access
  - mySQL server for SIS
  - Open Directory for master/clone directory info
  - NAT/Firewall and DHCP for internal network security
  - Time Machine server for collected data backup

weblogs

Weblogs: Leopard Server

◉ Extension of the Blojsom open source weblog system

weblogs

Weblogs: Leopard Server

- Many more options under Leopard: attachments, fonts, media, urls, html view, tables, bullets, outlines.

test two	¶ ☰ A ⟳ ⧉ 📎 ▦ ⟨⟩	cancel save

This is placeholder text for your new blog entry. Replace it with your own.

Other Blogs   Log Out (admin)   Help
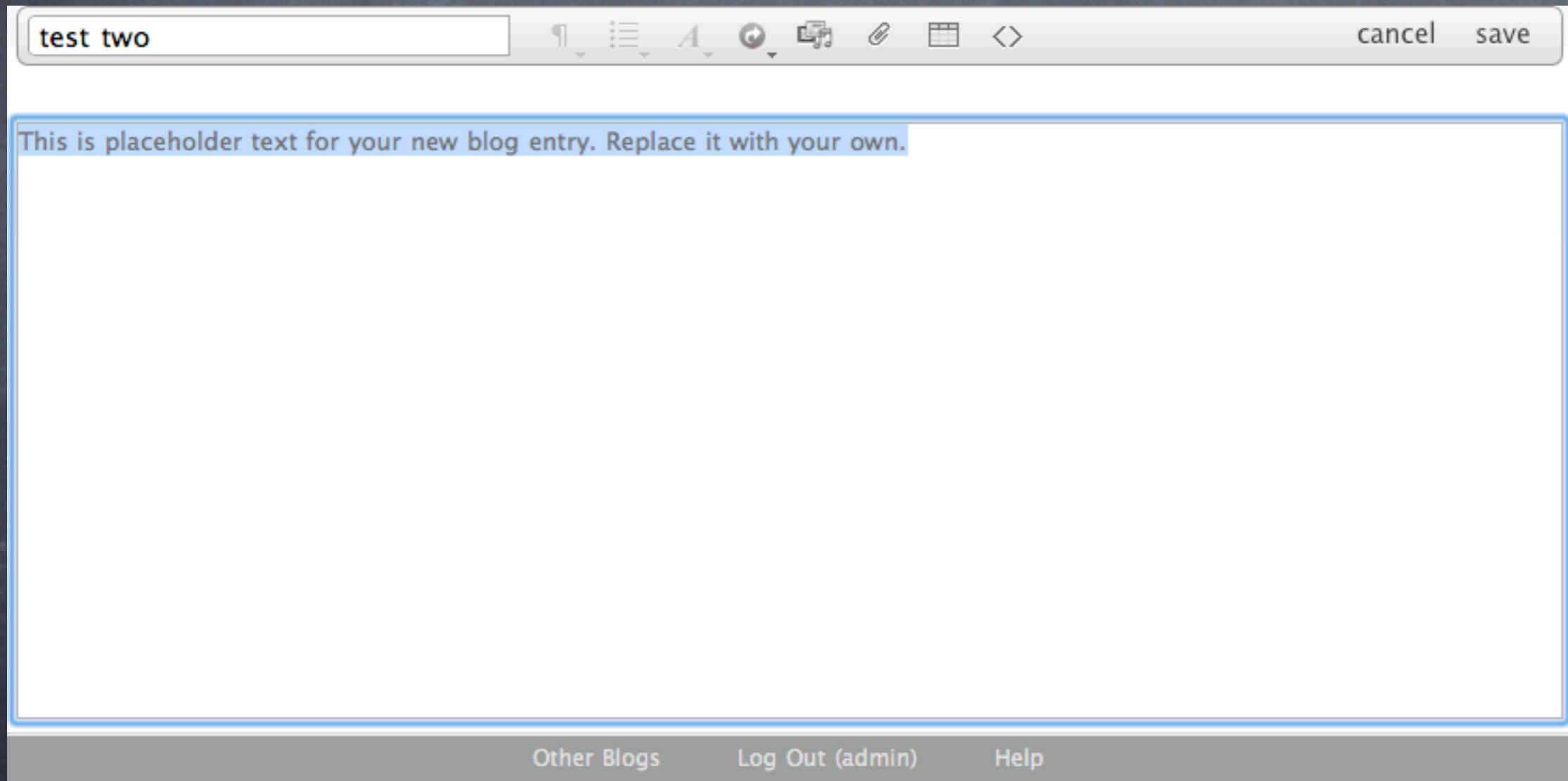
Podcast Producer

👁 Can aggregate streams from many computers, using Xgrid to process in realtime for instant access to media streams from the server
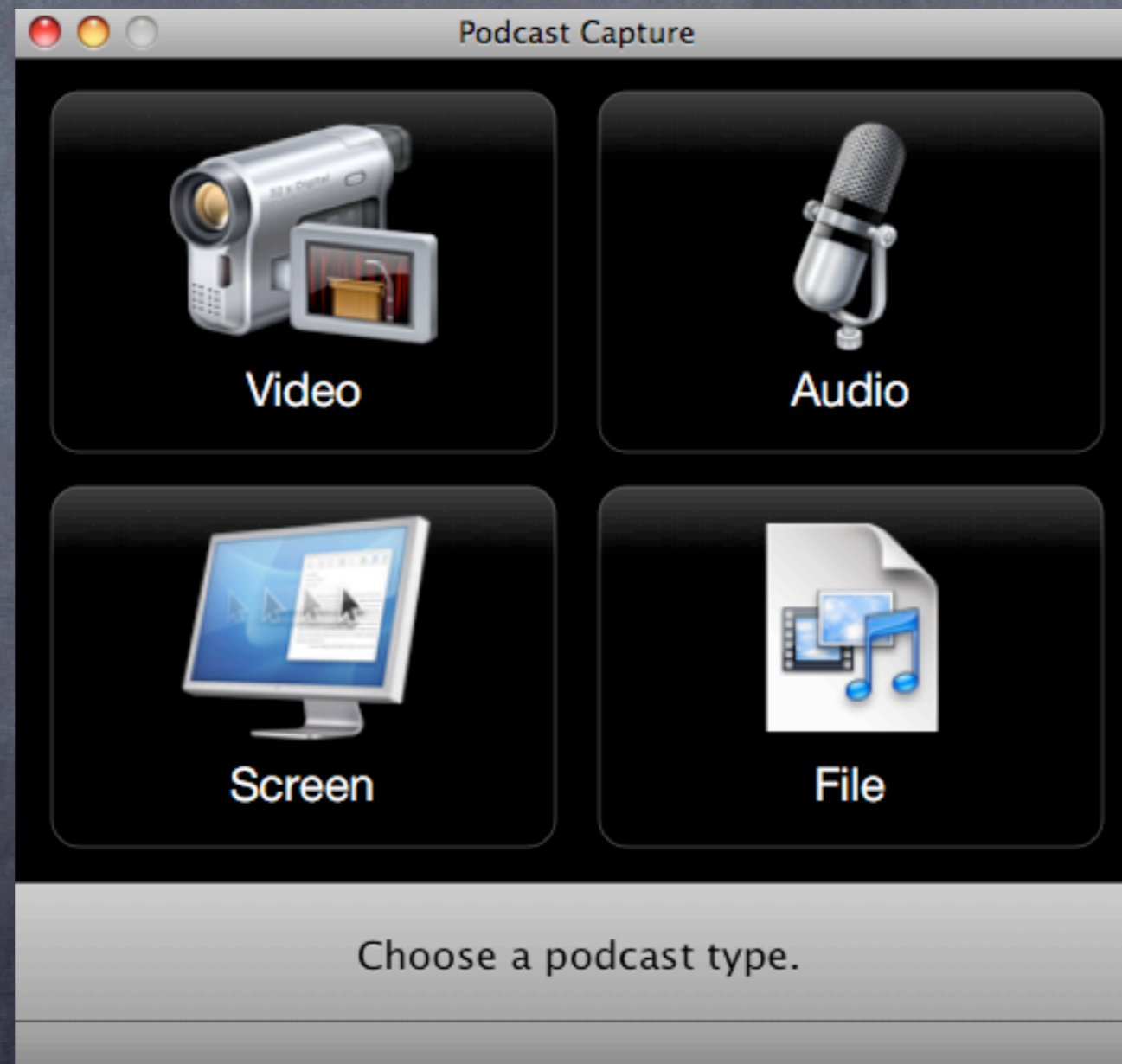
iChatAV server

iChatAV jabber server

- Hosts jabber users internal and external
- Use VPN for outside clients to share
- Logging utilities can log chats, conferences for future archives
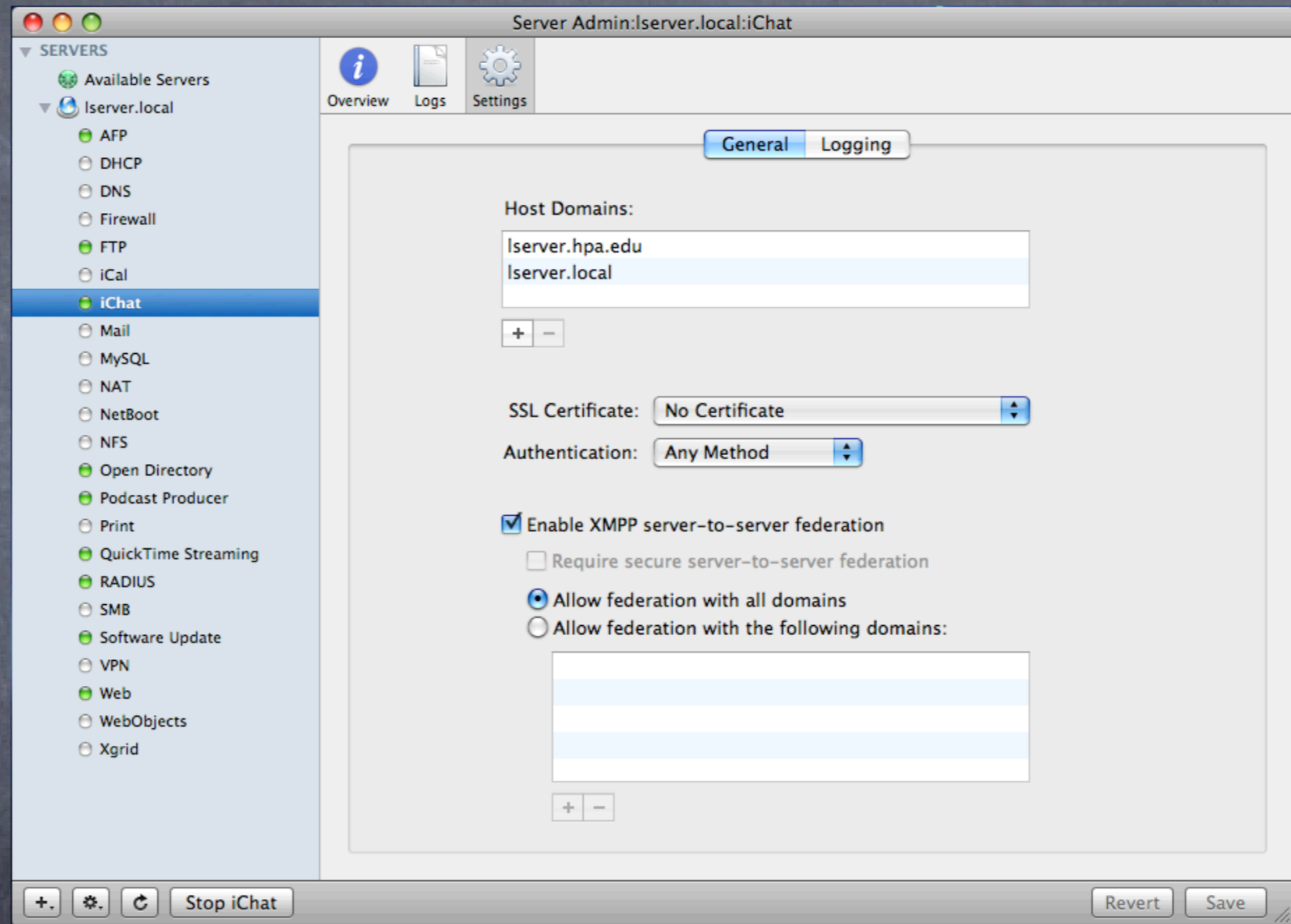
iCal server

iCal Webcal server

- works with any webdav calendaring system
- Format: webcal:// ical.mac.com/ hawaiiprep/daily.ics
- If no Leopard server, this can be done on any webDAV server (see Tenon documents)
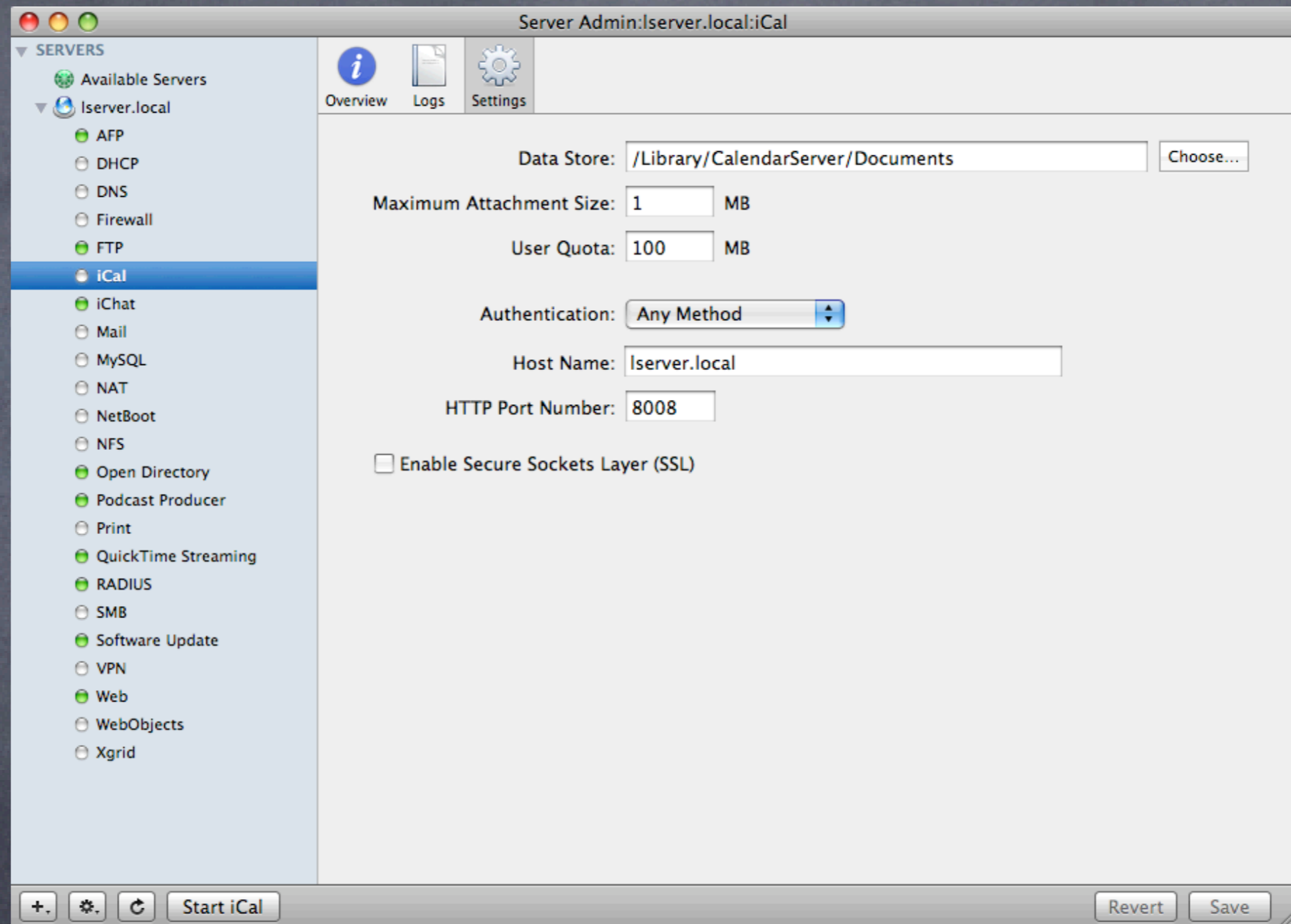
Webmail

Webmail: Leopard Server

- Needed some config under Tiger (see Schoun Regan's excellent book on this: Mac OSX Server Essentials)
- Config is simple under Leopard server
- Many plugins/addons are available

Leopard Server add-ons

- Timbuktu 8.7
  - allows for remote access and file transfer over IP, rendezvous, skype, dialup
  - legacy support back to v.4.8
  - Great for a pied a terre then run ARD locally
- Apple Remote Desktop
  - Great for managing groups of computers
  - File copying is slow/impossible
  - Unix Command Line broadcast is indispensible
- Gradekeeper
  - Teach your teachers to use it, students and parents love to see updated grades online
  - Easy to use, integrates with many SIS systems
- SNMP tools
  - Intermapper:network monitor
  - Cybergauge:traffic monitor
  - Whistle Blower: checks services, reboots if needed