3. Services Overview

About this Document

This document is the third in a series of documents describing the process of installing and configuring a *Mac OS X 10.6 Server* in a school environment.

Other documents in this series are available at:
servernotes.wazmac.com

This document provides an overview of the services provided by *Mac OS X Server* in a school environment.

Other documents in this series

- Installing & setting up the *Mac OS X Server* Software
  - Initial software Installation and config.

- Configuring DNS
  - adjusting the default setup, checking zones, adding machines.

- ***Setting up Services - 1 (This document)***
  - Services overview

- Setting up Services - 2
  - AFP, Web & SMB (*Windows*)

- Setting up Services - 3
  - DHCP

- Setting up Services - 4
  - Open Directory

- Setting up Sharepoints - 1
  - Groups folder
  - Home directories

- Setting up Users and Groups

- Setting up Sharepoints - 2
  - Imaging folder
  - Group folder permissions

- Client Imaging
  - Creating a master image
  - Creating a NetBoot image
  - Configuring NetBoot
  - Preparing the Server
  - Deploying a master image

- Managing Preferences

- Connecting from *Windows XP* - WorkGroup

- Configuring *Mac OS X Server* as a *Primary Domain Controller* (PDC)

- Connecting OS X Clients to Open Directory

- Backing up your Server

- Configuring your Intranet

- Enabling Blogs and Wikis

Services Overview

Mac OS X Server can provide a range of services for your network.

In a large school, with a busy network, these services may be best split over multiple servers.

In a small to medium-sized school, many (in fact all) of these services can run on the same server.

We are not going to setup all the available services in these notes, (most notably no *Mail*) as these are not generally required in systemic schools. However, these additional services are straightforward enough to setup for anyone who needs them.

This series of notes describe the setup of the following basic services for use in a local school:

Apple File Protocol (AFP)

Allows *Macintosh* clients to connect to the server and drag'n'drop files to and from folders on the server, in the same way as the *Finder* behaves.

Dynamic Host Configuration Protocol (DHCP)

Distributes IP addresses dynamically to client computers (*Mac, Windows* or *Linux*) on your network.

Domain Name Service (DNS)

Allows users to connect to a network resource, such as a web or file server, by entering a host name (such as *www.schoolname.edu.au*) rather than an IP address (192.168.11.12). This is an essential service if you hosting individual logins and Home directories on an *OSX Server*.

NetBoot

Allows *Macintosh* clients to start up from a system disk image located on a *Mac OS X Server*, instead of using the client computer's hard disk. We will use this in conjunction with a re-imaging application (eg *Netrestore*) to re-image network computers.

Network File System (NFS)

The protocol used for file services on *UNIX* computers. We will need to enable *NFS* to use *NetBoot*.

Open Directory (OD)

The *Open Directory* service allows students and teachers to authenticate to the server, and to locate and retrieve information from the server.

Print Service

Allows you to share network printers among clients on your network. The *Print service* also includes support for managing print queues, monitoring print jobs, and using print quotas.

SMB Service

Mac OS X Server can provide a variety of services to users of *Microsoft Windows*. *Windows file service* allows *Windows* clients to connect to the server using *Server Message Block* (SMB) protocol over TCP/IP.

Web service

The *Web service* is based on *Apache*, an open-source HTTP web server. We will use the *Web Service* to run our Intranet.