

About this Document

This document is the **fifth** 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 a guide to the process of enabling and configuring the *Dynamic Host Control Protocol* (DHCP) to provide IP addresses, and associated information, to client computers on a school network.

This document assumes that the school uses a single subnet. The official Apple documentation provides more detailed information about this and other DHCP options.

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
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 - AFP, Web & SMB (*Windows*)
- **Setting up Services - 3 (This document)**
 - DHCP
- Setting up Services - 4
 - Open Directory
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- Connecting OS X Clients to Open Directory
- Backing up your Server
- Configuring your Intranet
- Enabling Blogs and Wikis

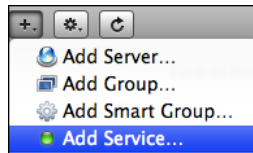
1. *Enabling and Configuring DHCP*

The *Dynamic Host Control Protocol* (DHCP) service provides an IP address, DNS server address, and LDAP information information to computers on the local network.

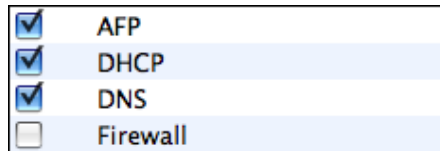
1.1. Launch *Server Admin*.



1.2. Click on the **+** button at the bottom left corner of the *Server Admin* window and choose **Add Service**.

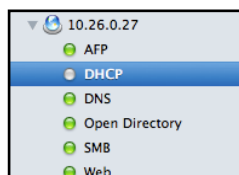


1.3. Tick the **DHCP** option in the right pane of the *Server Admin* window.

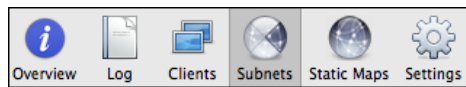


Click on the **Save** button.

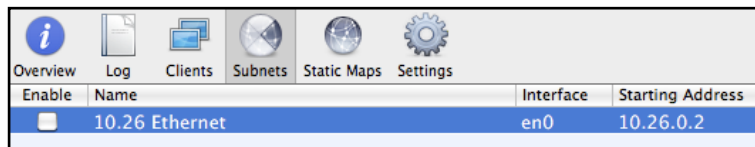
1.4. Select the **DHCP** service in the left pane of the *Server Admin* window.



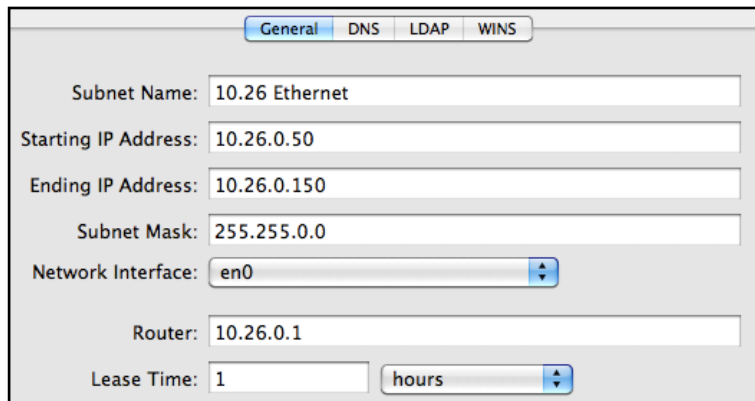
- 1.5. Click on the **Subnets** icon at the top of the right pane of the *Server Admin* window.



- 1.6. Select the new subnet at the top of the right window.



- 1.7. Edit the information at the bottom of the right pane, under the **General** tab - most importantly the **Starting IP Address**, and the **Ending IP Address**, to define the range of addresses that will be distributed to client computers on your network.



General DNS LDAP WINS

Subnet Name: 10.26 Ethernet

Starting IP Address: 10.26.0.50

Ending IP Address: 10.26.0.150

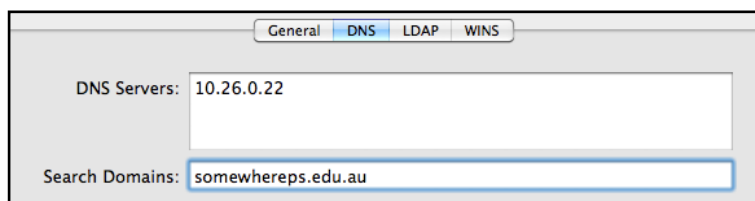
Subnet Mask: 255.255.0.0

Network Interface: en0

Router: 10.26.0.1

Lease Time: 1 hours

- 1.8. Click on the **DNS** tab and enter the *DNS* info for your server (it's *IP address* and *DNS zone name*).



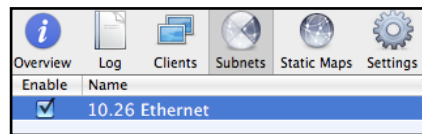
General DNS LDAP WINS

DNS Servers: 10.26.0.22

Search Domains: somewheres.edu.au

Click on the **Save** button.

- 1.9. Tick the **Enable** box, adjacent to your subnet, in the top pane on the right of the screen.



- 1.10. Click on the **Start DHCP** button at the bottom of the window.



After you have setup the Open Directory service (detailed in another document) return to the DHCP service to add the LDAP information described on the next page.

Note: DHCP distribution of LDAP information

In previous incarnations of *Mac OS X Server* it was possible to distribute LDAP server information via DHCP, so that each network computer received the local directory address at startup, and was able to populate the “list of student names” automatically.

This is known as *DHCP Option 95*.

Apple have now discontinued this option as a default setting.

Details at:
<http://support.apple.com/kb/HT3844>