

Going Old School, Using the Old Tools

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Snow Leopard Tools



Server Admin



Workgroup Manager



Terminal.app

Lion Tools



Server Admin



Workgroup Manager



Server.app



Terminal.app

Server Admin



Differences...

10.6

Select the services to configure on this server:

<input type="checkbox"/>	Address Book
<input type="checkbox"/>	AFP
<input type="checkbox"/>	DHCP
<input type="checkbox"/>	DNS
<input type="checkbox"/>	Firewall
<input type="checkbox"/>	FTP
<input type="checkbox"/>	iCal
<input type="checkbox"/>	iChat
<input type="checkbox"/>	Mail
<input type="checkbox"/>	Mobile Access
<input type="checkbox"/>	MySQL
<input type="checkbox"/>	NAT
<input type="checkbox"/>	NetBoot
<input type="checkbox"/>	NFS
<input type="checkbox"/>	Open Directory
<input type="checkbox"/>	Podcast Producer
<input type="checkbox"/>	Print
<input type="checkbox"/>	Push Notification
<input type="checkbox"/>	QuickTime Streaming
<input type="checkbox"/>	RADIUS
<input type="checkbox"/>	SMB
<input type="checkbox"/>	Software Update
<input type="checkbox"/>	VPN
<input type="checkbox"/>	Web
<input type="checkbox"/>	Xgrid

10.7

Select the services to configure on this server:

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<input type="checkbox"/>	Xgrid

Server Admin

Missing in Action in 10.7?

Address Book

AFP

FTP

iCal

iChat

Mobile Access

MySQL

NFS

Print

Push Notification

QuickTime Streaming

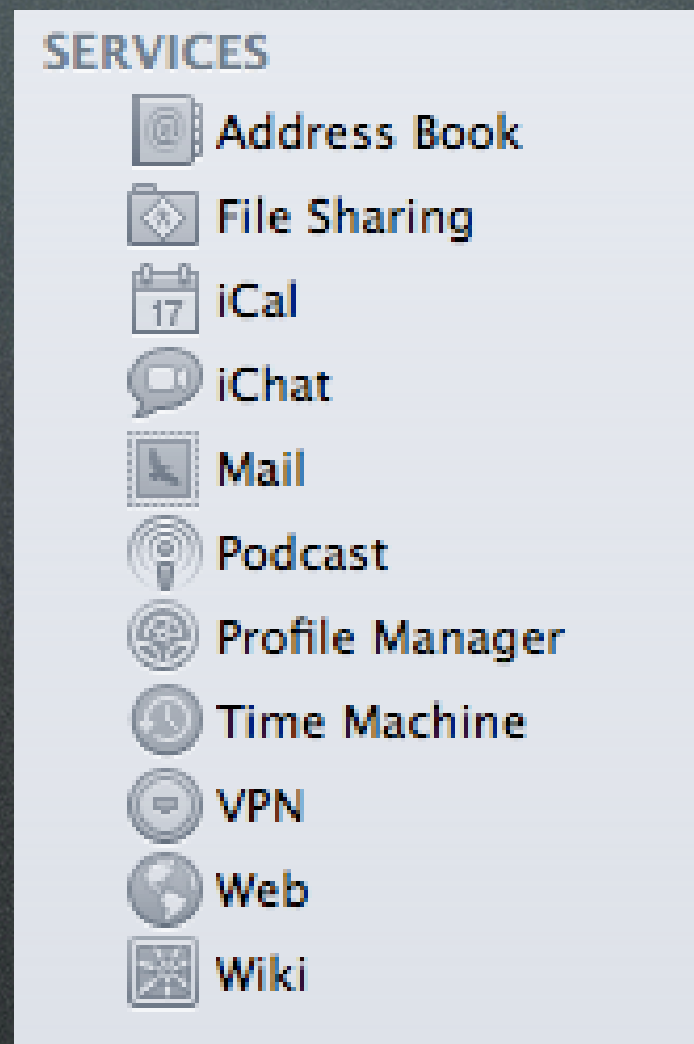
SMB

VPN

Web

Server.app

Fills in some of the holes...



Server Admin

DOA Services in 10.7...

- FTP
- Print
- MySQL
- QuickTime Streaming

Server Admin

DOA in 10.7...

FTP

Insecure

Clunky and inflexible

Look at something like Rumpus

If you **MUST** have FTP, check out PureFTPd Manager

Server Admin

DOA in 10.7...

Print

Under-utilized by most users

Stuck with simple CUPS sharing in Sharing pane

Access advanced features at <http://127.0.0.1:631>

Server Admin

DOA in 10.7...

MySQL

Swapped out for Postgres, but no GUI

Postgres required by Wiki and Device Manager

Open source MySQL installer still available

Server Admin

DOA in 10.7...

QuickTime Streaming

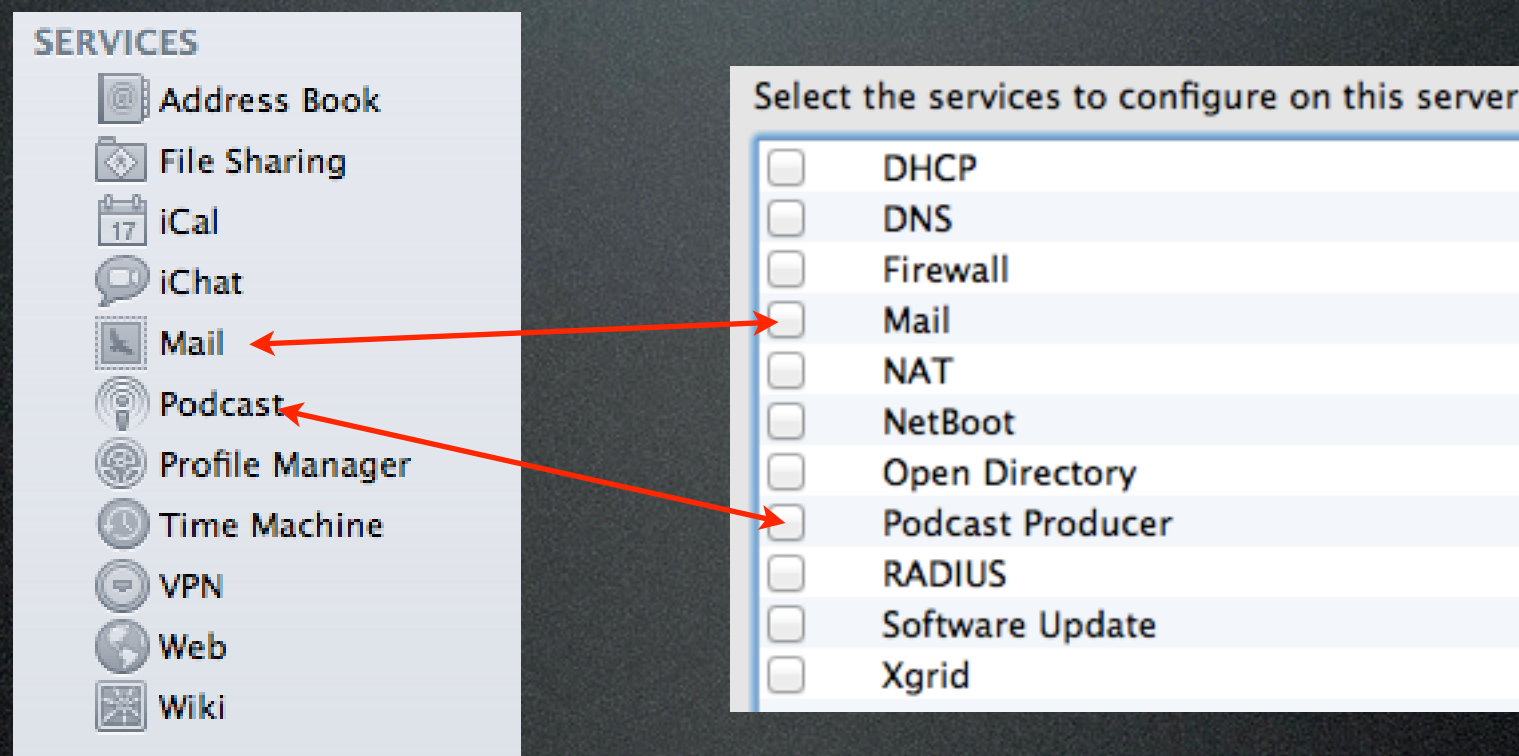
Open source Darwin option?

Darwin Streaming Server

Server Admin vs. Server.app

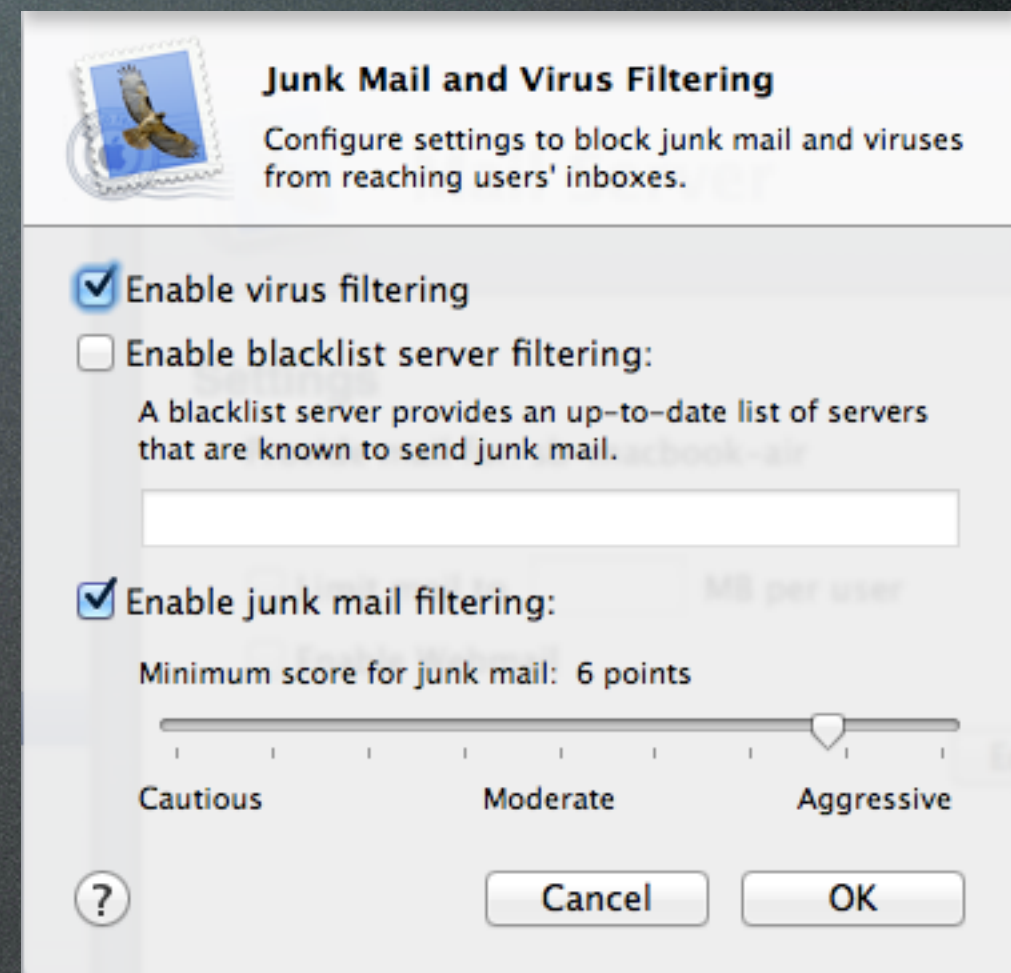
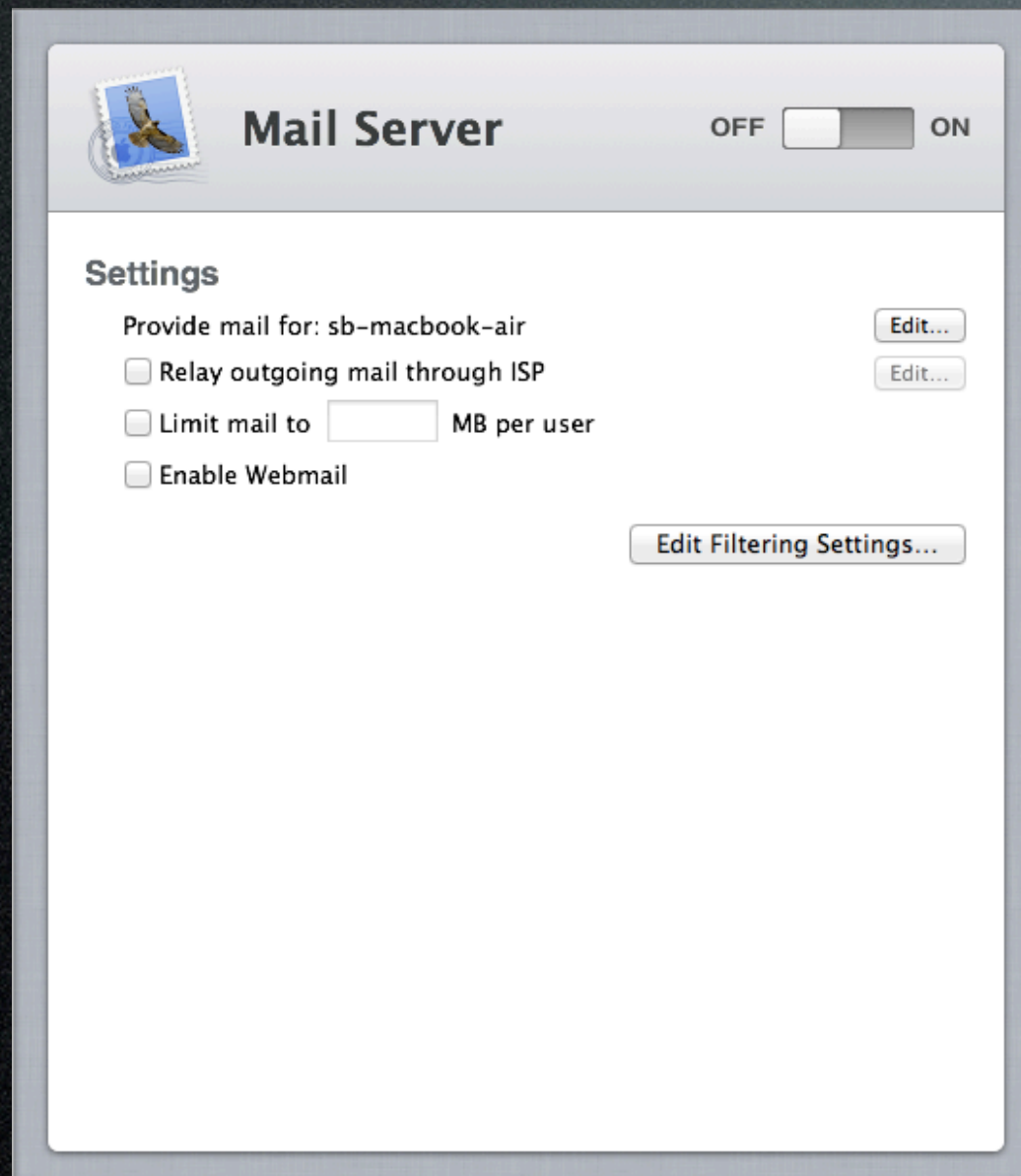
Mail is configurable in both apps

Podcast (Server) & Podcast Producer provide different functionalities.



Server.app

Basic Mail server configuration



Server Admin

- Advanced Mail server configuration
- Advanced DNS
- Firewall configuration
- Using RADIUS

Advanced Mail server configuration

Overview Logs Connections Maintenance Settings

General Relay Filters Quotas Mailing Lists Logging Advanced

Domain name:
Enter the local Internet domain name.

Host name:
Enter the Internet host name of this mail system.

Push Notification Server: None

☒ Enable SMTP

☒ Allow incoming mail

☐ Hold outgoing mail

☐ Relay outgoing mail through host:

☐ Authenticate to relay with user name:

Password:

☐ Copy undeliverable mail to:

☐ Copy all mail to:

☒ Enable IMAP with maximum of connections

☒ Enable POP

☐ Deliver to "/var/mail" when IMAP & POP are disabled

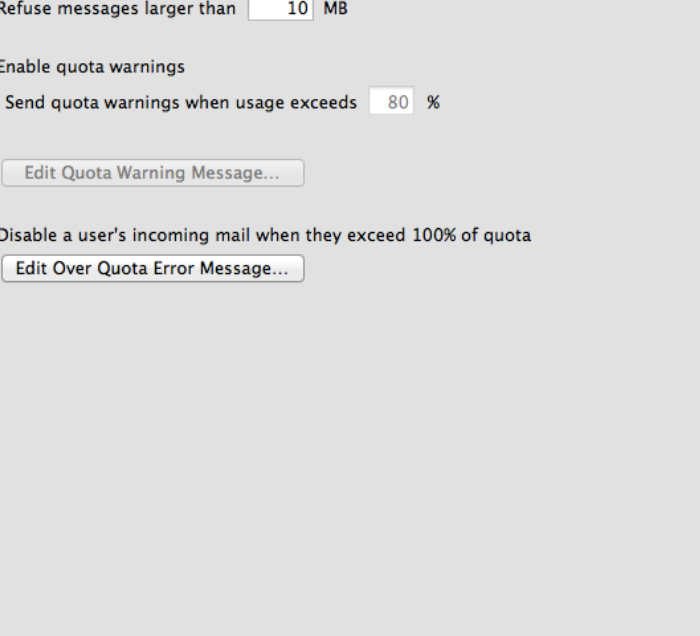
General Relay Filters

☒ Refuse messages larger than

☐ Enable quota warnings

Send quota warnings when usag

The screenshot shows the Dovecot Settings window with the 'Relay' tab selected. The 'General' sub-tab is active. The 'Accept SMTP relays only from these hosts and networks:' checkbox is checked, and the text '127.0.0.0/8' is entered in the list. The 'Refuse all messages from these hosts and networks:' checkbox is unchecked. The 'Use these junk mail rejection servers (real-time blacklist):' checkbox is unchecked, and 'zen.spamhaus.org' is entered in the list.



The screenshot shows the 'Quotas' tab in the Dovecot configuration window. The 'Quotas' tab is highlighted with a red circle. The configuration options are as follows:

- ☒ Refuse messages larger than MB
- ☐ Enable quota warnings
 - Send quota warnings when usage exceeds %
 - [Edit Quota Warning Message...](#)
- ☐ Disable a user's incoming mail when they exceed 100% of quota
 - [Edit Over Quota Error Message...](#)

GeneralRelayFiltersQuotasMailing ListsLoggingAdvanced

☐ Enable mailman mailing lists

These mailing lists are managed here in Server Admin

Mailing Lists

Email AddressSubsc

+ - ✎

+ -

Users & Groups

Server Admin

Advanced Mail server configuration

General Relay Filters Quotas Mailing Lists Logging Advanced

☒ Enable junk mail filtering

Minimum junk mail score: hits

Accepted languages:

Accepted locales:

Junk mail messages should be:

☒ Attach subject tag:

☒ Encapsulate junk mail as MIME attachment

☒ Enable virus filtering

Infected messages should be:

☐ Send notification to:

☐ Notify recipients

Update the virus databases time(s) every day.

Last Update: Not available

☒ Enable server side mail rules

General Relay Filters Quotas Mailing Lists Logging Advanced

Security Hosting Clustering

Authentication

SMTP:

☐ Kerberos

☒ CRAM-MD5

☐ Login

☐ PLAIN

IMAP/POP:

☐ Kerberos

☒ CRAM-MD5

☒ APOP (POP only)

☐ Login

☐ PLAIN

☐ Clear

Secure Sockets Layer (SSL)

SMTP SSL:

IMAP and POP SSL:

General Relay Filters Quotas Mailing Lists Logging Advanced

Security Hosting Clustering

☒ Include server's domain as local host alias

Local Host Aliases

☐ Enable virtual hosting

Locally Hosted Virtual Domains

General Relay Filters Quotas Mailing Lists Logging Advanced

SMTP log level:

Logs all warnings and errors.

IMAP/POP log level:

Protection mechanism failures, client inactivity timeouts.

Junk Mail/Virus log level:

Reports virus scanner output.

☒ Archive logs every: days

Server Admin

Advanced DNS Configuration

The screenshot shows the Server Admin application window with the 'Zones' tab selected. The 'Zones' list displays the following data:

Name	Type	Value
0.0.10.in-addr.arpa	Reverse Zone	-
16.123.1.10.in-addr.arpa	Reverse Zone	-
10.1.123.16	Reverse Mapping	orensteinsrvr.dmd.
mactechid.conf	Primary Zone	-
new-server.mactechid.conf.	Machine	10.0.0.1
orensteinsrvr.dmd	Primary Zone	-
orensteinsrvr.dmd.	Machine	10.1.123.16

Below the list are buttons for 'Add Zone', 'Add Record', and 'Remove'. The 'General' tab for the 'mactechid.conf' zone is active, showing the following configuration:

- Primary Zone Name: mactechid.conf
- Admin Email: mail@mactechid.conf
- ☐ Allows zone transfer
- Nameservers:

Zone	Nameserver Hostname
mactechid.conf	server.mactechid.conf.
- Mail Exchangers:

Hostname	Priority
----------	----------

The screenshot shows the 'Settings' tab for the 'mactechid.conf' zone. The configuration includes:

- Log Level: Information
- Accept recursive queries from the following networks:

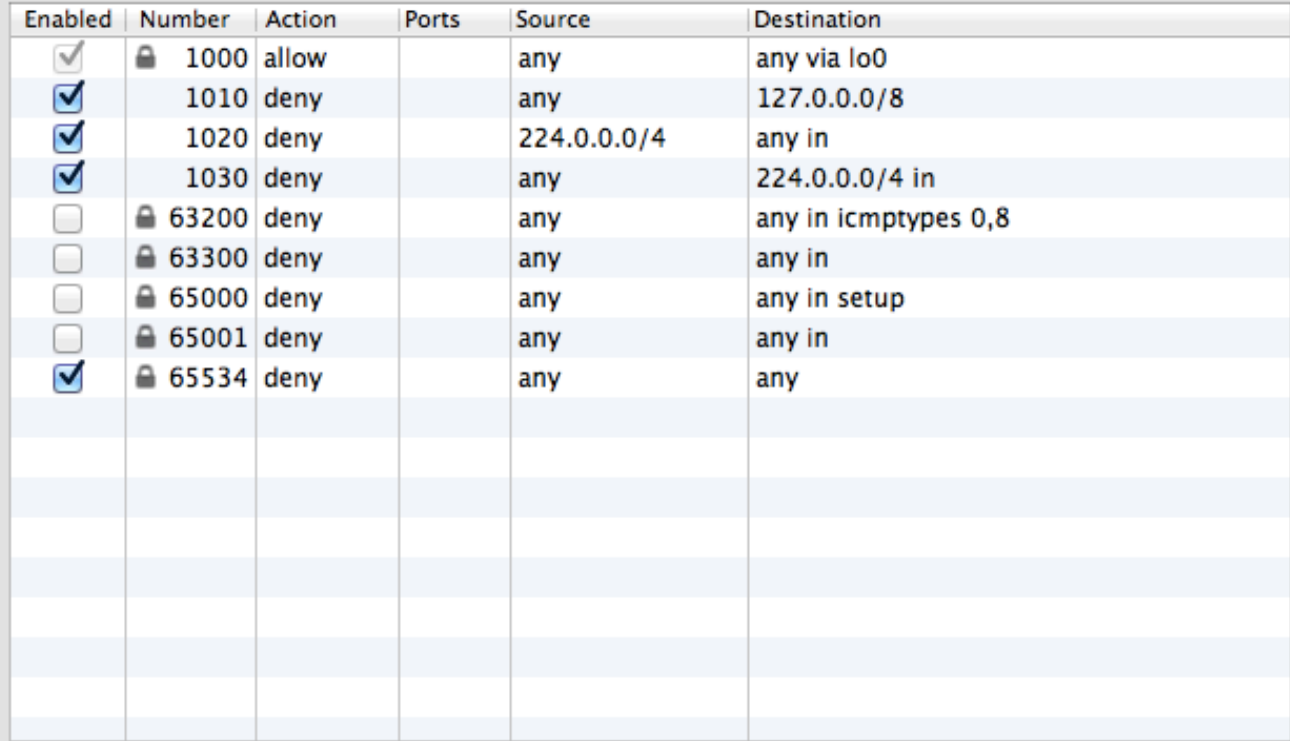
localnets

+ - For enhanced security, restrict recursive queries to private networks.
- Forwarder IP Addresses:

75.75.75.75
75.75.76.76

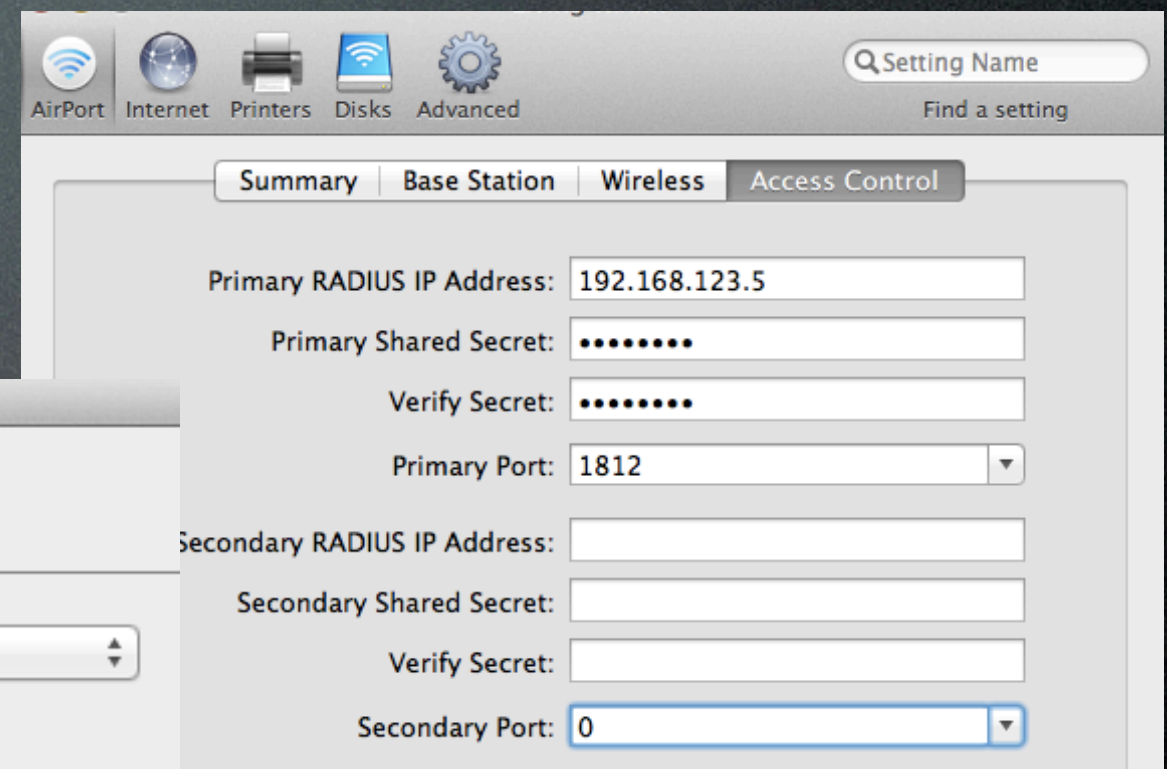
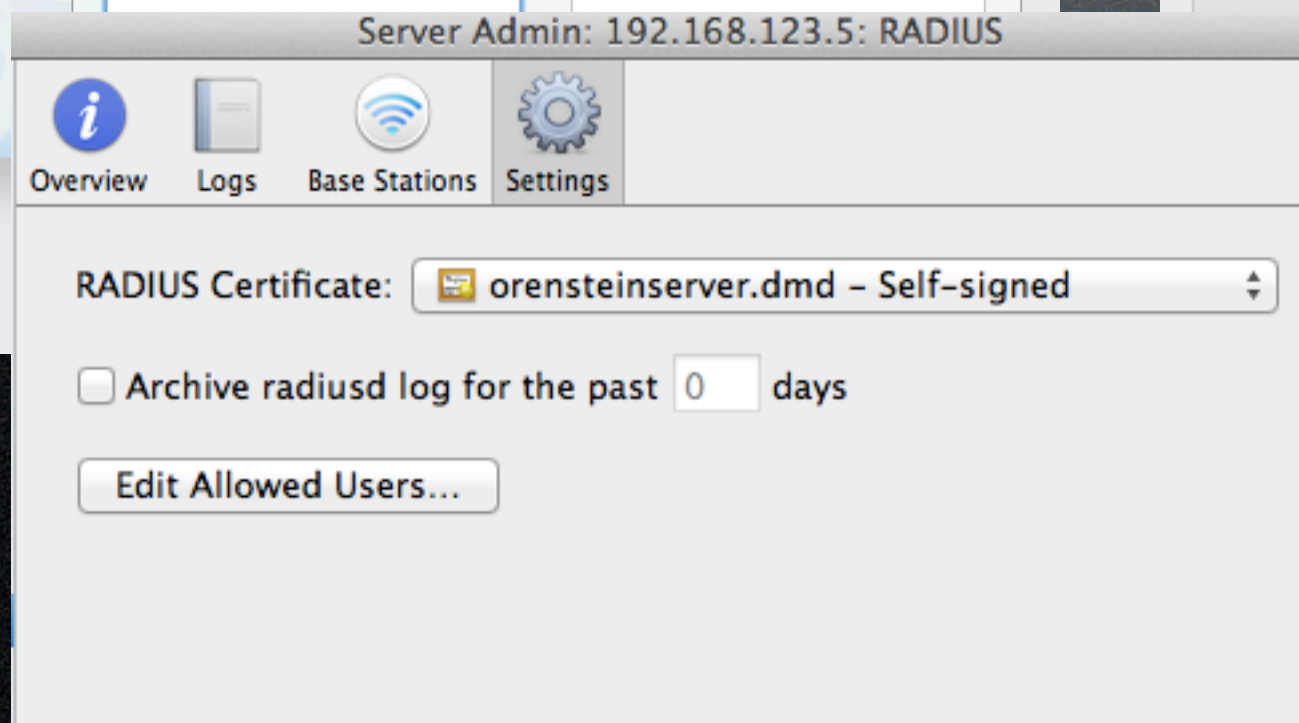
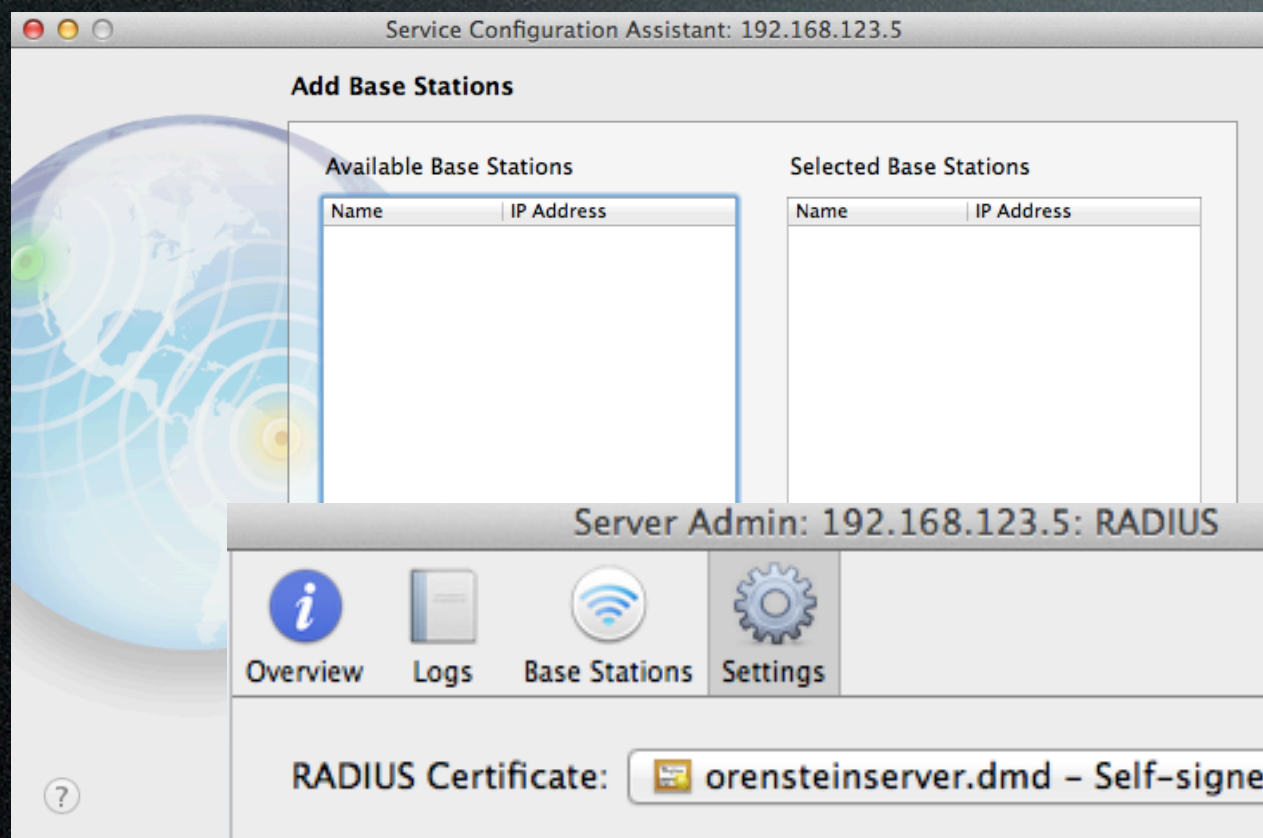
+ - Queries for which this server is not authoritative will be forwarded.

Firewall



Server Admin

RADIUS



Server Admin

Working with Open Directory

Open Directory controls are identical to the version that shipped with 10.6.

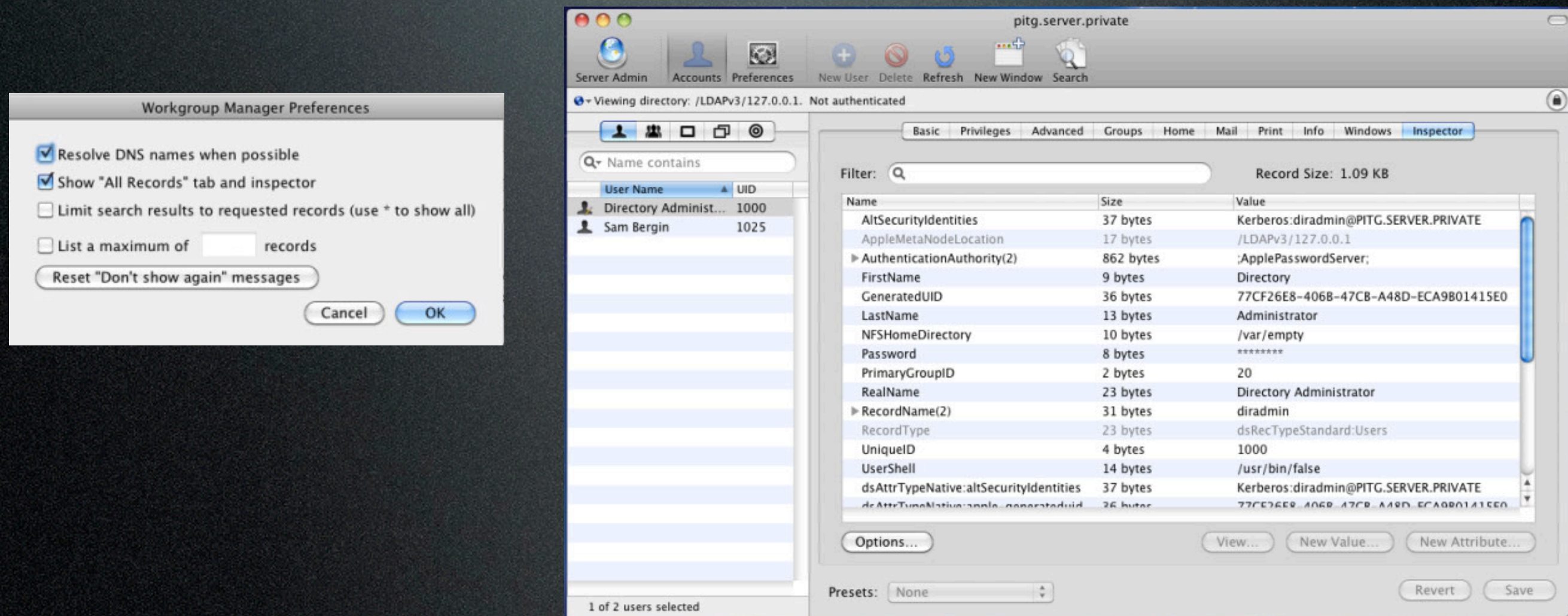
The major difference is that ODM creation should occur from within Server.app. Typical DNS warnings and requirements apply.

Workgroup Manager

- User and Group Management
- Directory Editor
- Computer and Computer Group Management
- MCX

Workgroup Manager

Prior to 10.7, we used Inspector in WGM to access advanced directory information.



Workgroup Manager

In 10.7, we use Directory Editor to access advanced directory information.

The screenshot shows the Directory Utility application window. The 'Directory Editor' tab is selected, displaying a list of services on the left and a table of directory information on the right. The 'Local Admin' service is selected in the list.

Directory Utility - Directory Editor

Viewing: Users in node /Local/Default Authenticated as root

Select a service and click the pencil icon to edit settings.

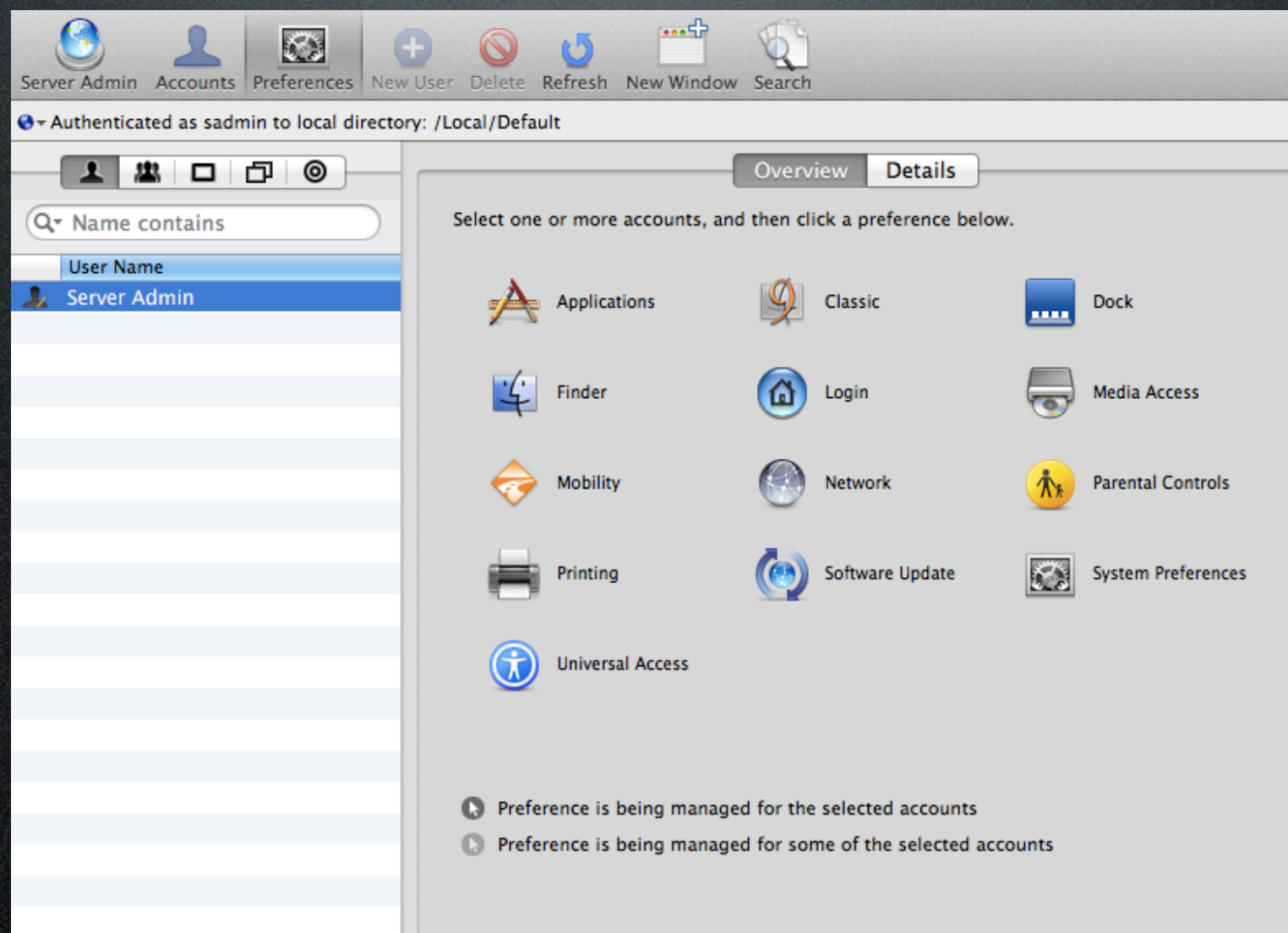
Name	Value
AppleMetaNodeLocation	/Local/Default
AuthenticationAuthority	;ShadowHash;HASHLIST: <SALTED-SHA512>
AuthenticationHint	joe
GeneratedUID	0E28683B-17B4-47D5-AA28-6704C88901BE
NFSHomeDirectory	/Users/ladmin
Password	*****
PasswordPolicyOptions	Binary: 373 bytes
Picture	/Library/User Pictures/Sports/Tennis.tif
PrimaryGroupID	20
RealName	Local Admin
RecordName	ladmin
RecordType	dsRecTypeStandard:Users
UniqueID	501
UserShell	/bin/bash
dsAttrTypeNative:writers_hint	ladmin
dsAttrTypeNative:writers_inenphoto	ladmin

Click the lock to prevent further changes.

Workgroup Manager

MCX

Still a part of 10.7, but deprecated





Command Line Gems

serveradmin Access server admin daemon

```
sudo serveradmin start afp
```

mcxquery Managed Client query tool

```
mcxquery -user jane -group science -computer lab1_12
```

dscl Directory Service utility

```
sudo dscl /LDAPv3/127.0.0.1 -list /Users
```

nfsd NFS daemon

```
nfsd status
```

dseditgroup Group record manipulation

```
sudo dseditgroup -o create com.apple.access_afp
```


Summary



Server.app



Server Admin



Workgroup Manager



Terminal.app

Q & A

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