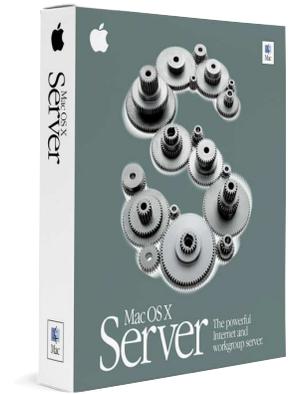




Mac OS X Server

The powerful Internet and workgroup server.



Key Features

Robust core operating system

- Kernel based on Mach 2.5 and BSD 4.4
- Protected memory
- Preemptive multitasking
- Native support for 100% Pure Java (JDK 1.1.6)

Industry-leading web server

- Standard implementation of Apache 1.3.4
- Optimized for fastest Apache performance
- Fully integrated single-button setup

Powerful application server

- WebObjects 4.0.1, the industry leader for developing and deploying flexible, scalable network applications
- 50-transaction-per-minute license
- Full suite of WebObjects development tools

Simple Macintosh workgroup management

- Apple's new NetBoot technology for managing Macintosh systems on a network
- Makes managing a network of Macintosh computers as easy as managing a single Macintosh
- Gives users secure access to their personal desktops, files, and applications from any Macintosh on the network

Scalable file services

- File services comparable to those in AppleShare IP
- Support for more than 4,000 open files per process and more than 1,000 simultaneous connections
- User and group information stored in NetInfo, a distributed network database
- Support for importing user information from AppleShare IP servers
- Ability to export the Apache documents directory to AppleShare clients
- Web-based Remote Administration tool for monitoring and changing server status, user and group lists, and mountable volumes

Mac OS X Server software combines outstanding performance and robustness, the renowned Macintosh ease of use, and innovative services for the Internet and workgroups—all for one great price.

Mac OS X Server uses the same modern foundation that will power Mac OS X. Based on Mach 2.5 and BSD 4.4, this operating system is incredibly stable and scalable. It includes systemwide protected memory for crash-resistant computing, and full preemptive multitasking so that a single service can't monopolize the processor.

Two industry-leading Internet services—Apache and WebObjects developer tools—are included with Mac OS X Server. Apache is the world's most popular server for reliably delivering both static and dynamically generated HTML pages. Apache can be scaled from a workgroup web server to a complex Internet site hosting multiple domains. Apple's standard implementation of Apache is fully integrated with Mac OS X Server, and the server software itself has been optimized to work with Apache.

WebObjects software is the most flexible and scalable way to develop and deploy network applications for viewing from any web browser. It's a proven, industry-leading technology that currently runs thousands of mission-critical applications around the world. Included with Mac OS X Server are the WebObjects developer tools, which let you create your own WebObjects applications.

In addition to providing powerful Internet services, Mac OS X Server introduces a whole new way to manage your Macintosh workgroups. Apple's exciting NetBoot software enables a network of Macintosh computers to run from the same shared System Folder and applications volume stored on the NetBoot server. Just update the NetBoot server, and all the other computers have instant access to the new configuration.

Mac OS X Server also includes highly scalable file services capable of supporting thousands of open files, connecting to more than a thousand concurrent users, and pushing hundreds of megabits per second across the network.

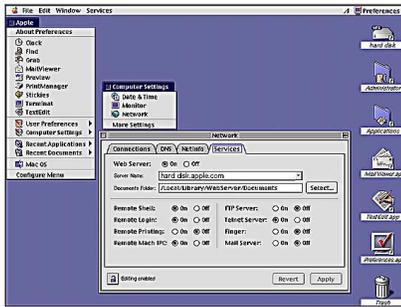
Mac OS X Server: Powerful software for Internet services and Macintosh workgroups.





Specification Sheet

Mac OS X Server



Configuring network services is easy with the Network control panel. You can enable or disable any service without ever having to touch a configuration file.

Features

Robust core operating system

Kernel based on Mach 2.5 and BSD 4.4

Protected memory

Preemptive multitasking

Native support for 100% Pure Java (JDK 1.1.6)

Benefits

Provides an incredibly stable and scalable operating system based on open standards

Makes it easy to port applications from UNIX operating systems

Helps prevent system crashes

Prevents a single service from monopolizing the computer

Runs any of the multitude of conformant Pure Java applications and applets

Integrates the Java runtime code with the native object model and threads for impressive performance and stability

Industry-leading web server

Certified implementation of Apache 1.3.4

Brings the world's most popular web server to the Macintosh platform

Allows you to easily share Apache configuration files with or migrate them from other platforms

Supports easy updating to future releases from the Apache Group

Optimized for Apache performance

Delivers performance outstripping any other web server in its class

Single-button setup

Gets your web server up and running in minutes

The Workspace Manager in Mac OS X Server is similar to the Mac OS Finder, but is optimized to support multiple users.

1

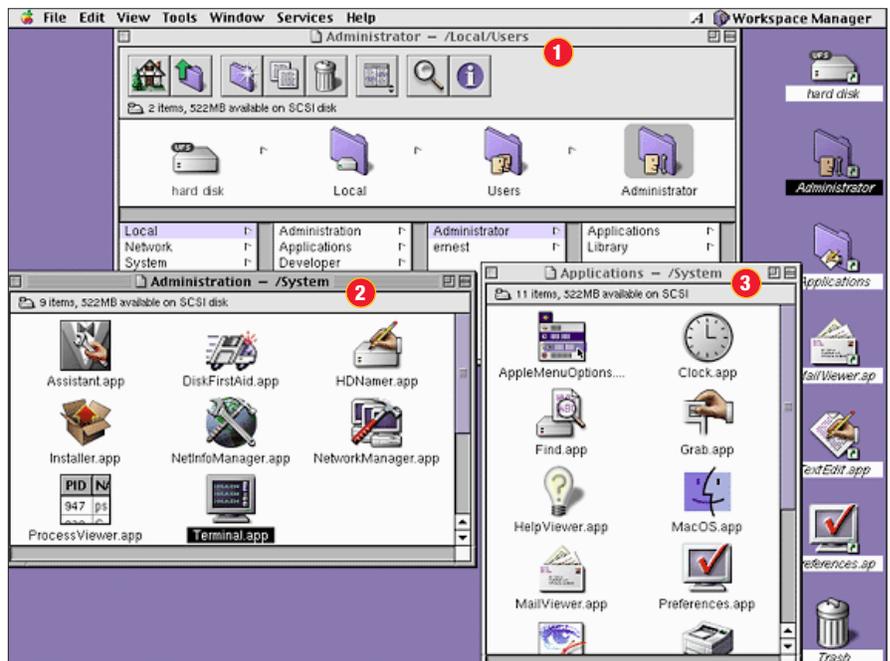
Each user's files and preferences are stored in the user's home folder, so nonadministrator users are not allowed to change system files.

2

Mac OS X Server comes with a wide range of administrative tools and utilities.

3

Also included are a number of useful end-user applications.





Features

Benefits

Powerful application server

WebObjects 4.0.1 software	Provides the most flexible and scalable server for deploying network applications that can connect to multiple databases and generate HTML and Java user interfaces for a standard web browser Provides proven technology that has made WebObjects the most popular application server for the Internet and intranets, running some of the web's most popular sites Lets you leverage hundreds of existing third-party WebObjects solutions previously developed for use on UNIX or Windows NT systems
50-transaction-per-minute license	Allows you to evaluate WebObjects applications or deploy them in medium-size workgroups
Full suite of WebObjects development tools	Enables you to create your own WebObjects applications Enables you to assemble prebuilt components to create powerful reporting and electronic-commerce solutions Includes the WebObjects Direct to Web feature to quickly enable access to SQL databases in a web page

Simple Macintosh workgroup management

Apple's new NetBoot technology	Enables you to configure and update systems on all your NetBoot-capable Macintosh computers by simply updating the NetBoot server once Stores a single, consistent System Folder and application folders for all clients on a NetBoot server Includes NetBoot Desktop Admin software that lets you administer the system and application resources used by NetBoot client computers from any NetBoot client
Macintosh Management server software	Enables individual users to securely access their system and applications, documents, and personal desktops from any NetBoot or non-NetBoot client Lets you control access to your network by providing authentication services and system policy control

Scalable file services

File services comparable to those in AppleShare IP	Lets any AppleShare client access files over either TCP/IP or AppleTalk
Support for more than 4,000 open files per process and 1,000 simultaneous connections	Enables you to provide file services to a large workgroup from a single Macintosh server
Ability to share user and group information among different Mac OS X Server systems	Streamlines the updating of multiple servers
Support for adding multiple users at one time from AppleShare IP servers	Speeds server configuration Makes it easy to add a Mac OS X Server-based system to an existing AppleShare network
Ability to export the Apache documents directory to AppleShare clients	Allows you to drag and drop files onto the Apache server from any Macintosh client
Web-based Remote Administration tool	Provides easy-to-use file server management that you can access from any Java-capable web browser



The Macintosh Management Server provides a multiuser environment on top of the Mac OS, allowing users to securely access their environment, including personal desktops, files, and applications from any Macintosh computer on the network.



Specification Sheet

Mac OS X Server

Top Five Reasons to Get Mac OS X Server

1. Provide native Apache web services on the Macintosh platform
2. Develop and deploy cutting-edge network applications with WebObjects
3. Manage your network with NetBoot server software
4. Scale your Apple file services to more than 1,000 users
5. Support powerful third-party solutions for digital and print publishing

Choosing between AppleShare IP and Mac OS X Server

AppleShare IP software provides file, print, web, and mail services for Macintosh and Windows clients. Setup and management are done through an integrated and secure interface that makes AppleShare servers extremely easy to use.

Mac OS X Server does not provide all the same services as AppleShare IP, but does offer high scalability for web serving and file sharing. It does not directly support Windows clients for file sharing, although any web client can access its web services.

If you need any of the following capabilities, you should choose Mac OS X Server:

- Configure and update multiple Macintosh systems from a single server
- Support more than 1,000 simultaneous Macintosh clients for file sharing
- Have a high-speed Apache web server
- Implement a WebObjects application server

If, however, you need a general-purpose server that can support a mixed environment of Macintosh and Windows clients, you should choose AppleShare IP.

For More Information

For more information about Mac OS X Server, visit www.apple.com/macosex. For more information about AppleShare IP, visit www.apple.com/appleshareip.

To find out where to buy Apple products—through a reseller or from the Apple Store—visit www.apple.com or call 1-800-538-9696.

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Ordering Information

Mac OS X Server

Order No. M7348Z/A

Includes four CDs containing the following software:

- Base Mac OS X Server system
 - Mac OS X core operating system
 - Apache 1.3.4 web server
 - QuickTime Streaming Server (preview release)
 - Apple file services
 - Java 1.1.6
 - Perl 5.0
 - Sendmail 8.9
 - FTP
 - Telnet
 - NFS
 - Mac OS 8.5 compatibility environment
- WebObjects 4.0.1 development and deployment software
- NetBoot server software
 - Mac OS 8.5.1 client images for NetBoot client computers
 - NetBoot Desktop Admin
 - Macintosh Management client for non-NetBoot computers
- Demo versions of third-party server solutions
 - Avatar team collaboration and groupware from Avatar Works Limited
 - Cumulus media management system from Canto
 - Helios EtherShare, EtherShare OPI, PDF Handshake, and Print Preview file and print management software from Helios Software GmbH
 - Web Crossing and Web Crossing/Chat collaboration software from Lundeen & Associates
 - RSCommerce electronic commerce suite from Running Start
 - KeyServer client license management software from Sassafras Software
 - CommuniGate Pro Internet messaging server from Stalker Software, Inc.
 - FullPress file-sharing, and OPI software from Xinet

System Requirements

Mac OS X Server

- Power Macintosh G3 computer or Macintosh Server G3
- 64MB of RAM
- 1GB hard disk
- Video card, Ethernet card, or disk controller as provided by Apple

NetBoot client computers

- Apple iMac or 1999-model Power Macintosh G3 computer
- 32MB of RAM

Macintosh Manager client computers

- 68040- or PowerPC-based Macintosh computer
- Mac OS 8.1 or later
- 32MB of RAM

Important: Mac OS X Server uses a different file system, called Mac OS Server Format, which supports POSIX file system semantics. This requires you to partition or reinitialize your existing Macintosh hard disk drives. Files that are shared with AppleShare or NetBoot clients must be stored on Mac OS Extended Format (HFS Plus) volumes.

Support Options

Apple is dedicated to providing support that meets the needs of our customers. Fee-based support for Mac OS X Server is offered on a per-incident basis or through an annual agreement. To purchase one of Apple's support products in the United States or Canada, please call 1-888-275-8258. Technical and administrative support is provided in English. For more information, visit www.apple.com/support.