

Welcome

To Advance through Presentation
Use Page Up and Page Down Keys



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Developers
Conference



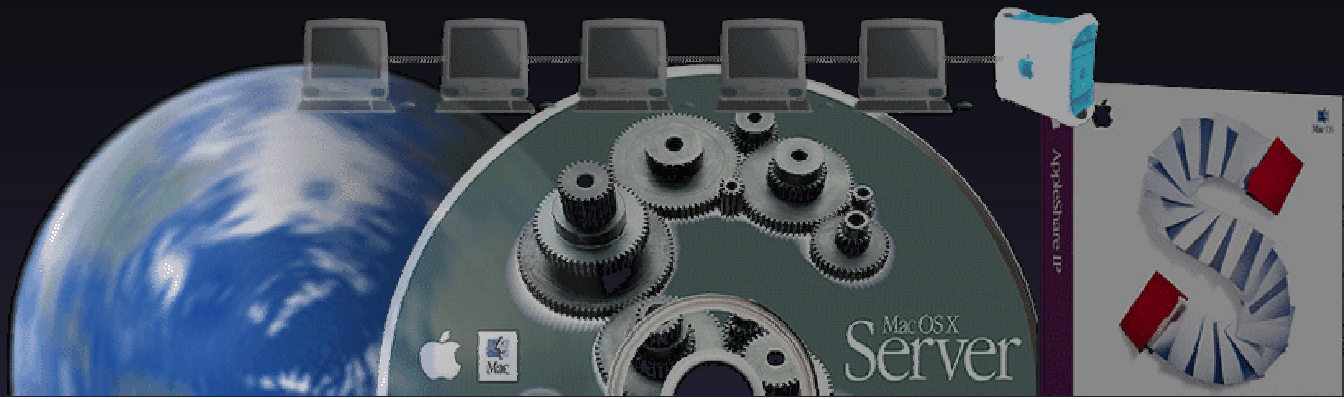
Apple Server Software

99

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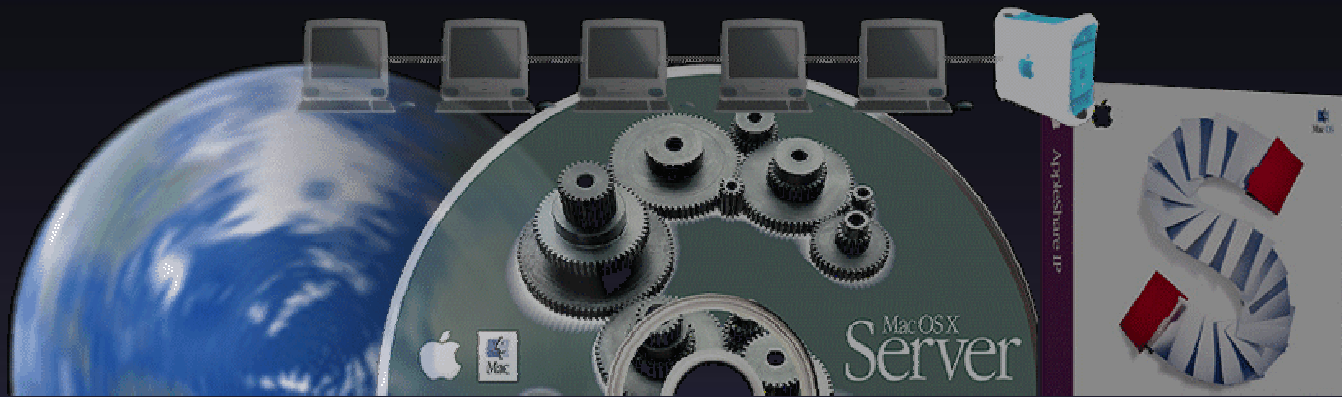
Server Software

- Server Strategy
- AppleShare
- Mac OS Client
- Mac OS X Server



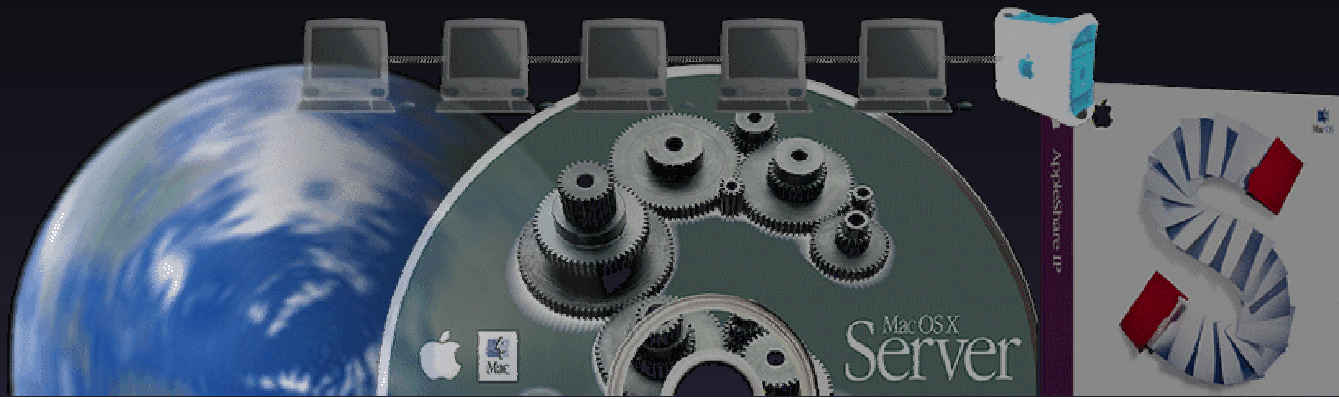
Apple's Server Strategy

- Build the world's best personal computers
- Support those computers with great server products



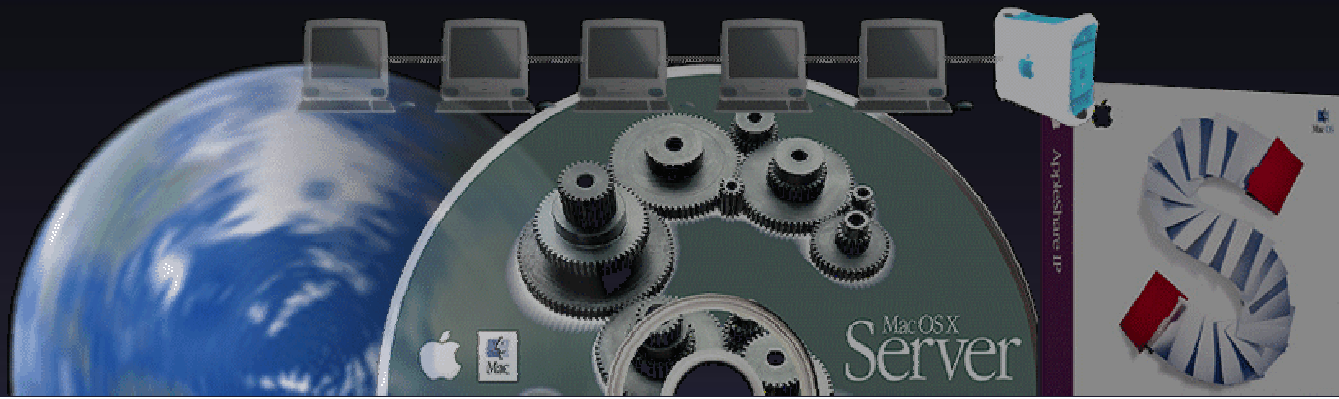
Apple's Server Strategy

- Strong server product offering including:
 - Innovative software products
 - High performance hardware
- A Platform to Build On



Servers at Apple

- #1 Server Software in K-12 Education
- #1 Server Software/Hardware solution in the Publishing market
- Strong growth outside of the US



Great Server Software



AppleShare IP

The world's easiest-to-use general-purpose server
Mac OS 8; File, Print, Mail and Web services



Mac OS X Server

Innovative services with greater scalability
UNIX; Apache, WebObjects, NetBoot and QuickTime



Roadmap

From two great servers



AppleShare IP



AppleShare IP

- Apple's easy to use, general purpose server
- Runs on Mac OS 8.5
- Full suite of server software
 - Apple and Windows file sharing
 - POP and IMAP mail servers
 - Fast, extensible web services
 - Print, DNS, firewall support and more



AppleShare Mail Server

- AppleShare IMAP Administration
 - Port 626
- Opportunities
 - Statistics reporting
 - Backup/Restore/Migration of individual user accounts
 - Inclusion of shared IMAP folders in IMAP clients



AppleShare Web Server

- Support for WebStar API v1.2
- Support for CGIs and ACGIs
- Support for Multi-hosting
 - Up to 50 unique web sites
- Foundation for AppleShare's Web Admin
- Opportunities
 - Web-based mail



AppleShare Server UAMs

- Allow AppleShare to fit into an existing authentication and directory infrastructure
- Possible examples:
 - Kerberos, LDAP, NDS, NIS and Windows NT Domains
- Server UAMs can also update the ASIP Registry



Mac OS Client



AppleShare Client UAMs

- Permit clients to connect to third party AFP servers using the server's native authentication
- The UAM API will remain the same for Mac OS X (client)



Secure Printing

- New with Mac OS 8.6 and LaserWriter 8.6.1 or later
 - AppleTalk and LPR print jobs
- New Document Structuring Comments
 - Query Server for supported Authentication methods
 - Optional Passwords and Password Encryption
- Secure Printing Protocol Specification



Mac OS X Server

Moving forward



Mac OS X Server

- Apple's first modern server operating system
- Based on open standards
- Performance, reliability and scalability
- Innovative Internet and workgroup services
 - NetBoot, QuickTime Streaming, WebObjects



NetBoot

- Plan for a fast-paced adoption of NetBoot by Apple customers



NetBoot

- Application developers need to be compatible with this technology
- Client/Server developers can count on having powerful servers in these environments



QuickTime Streaming

- QuickTime Streaming Server 1.0
 - Included with Mac OS X Server
 - RTP and RTSP
- Future releases will include a new server plug-in API
 - Similar to Apache plug-in structure
 - Support Developer plug-ins
 - Example: Statistics and logging tools



Open Source

- Darwin Streaming Server
 - Extends Apple's involvement with the Open Source community
 - Enables developers to offer streaming servers for QuickTime clients
 - Build your own streaming server



Apache Web Server

- Pure Apache
- Contribute to Apache effort
- Support Apache plug-ins
- Provides a standard deployment platform for web-based products



Application Server

- Tools for development and deployment
- Thin, ubiquitous clients—HTML and/or Java-based
- Session management is automatic
- Connectivity to back-end data systems
- Highly scalable from single-users up to high-volume Internet usage



Ideas for Developers

- Give your administrative applications a Web or Java client-based front end
- Use WebObjects to maintain persistent data for server-based apps in a database
- Develop WebObjects adapters to connect to other technologies and systems
- Develop reusable components



Directory Services

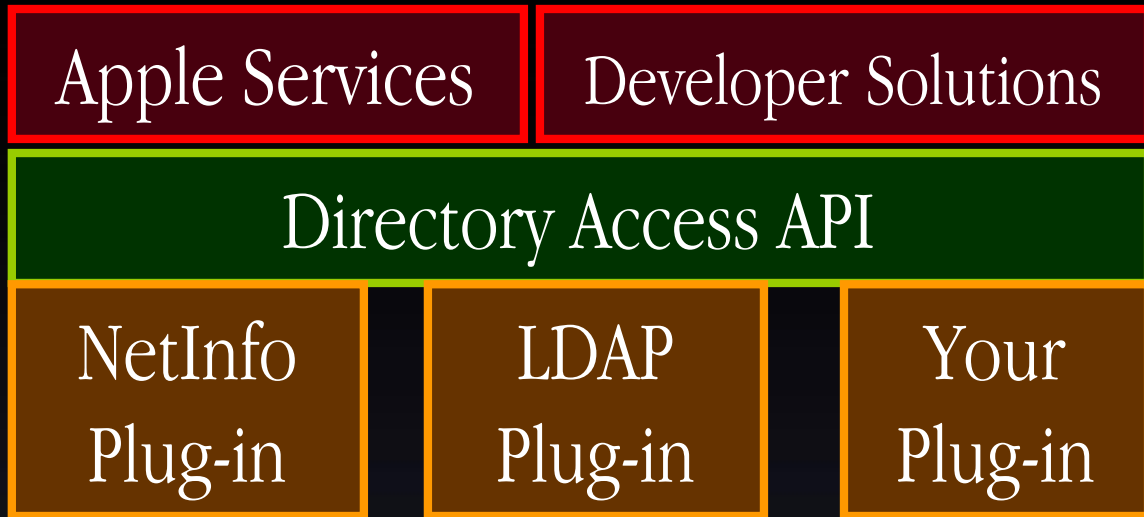
- Apple's future Mac OS 8 and Mac OS X software products will be based on a common directory access architecture

Apple Services: AFP, Mail...

Common Directory Access



Directory Services



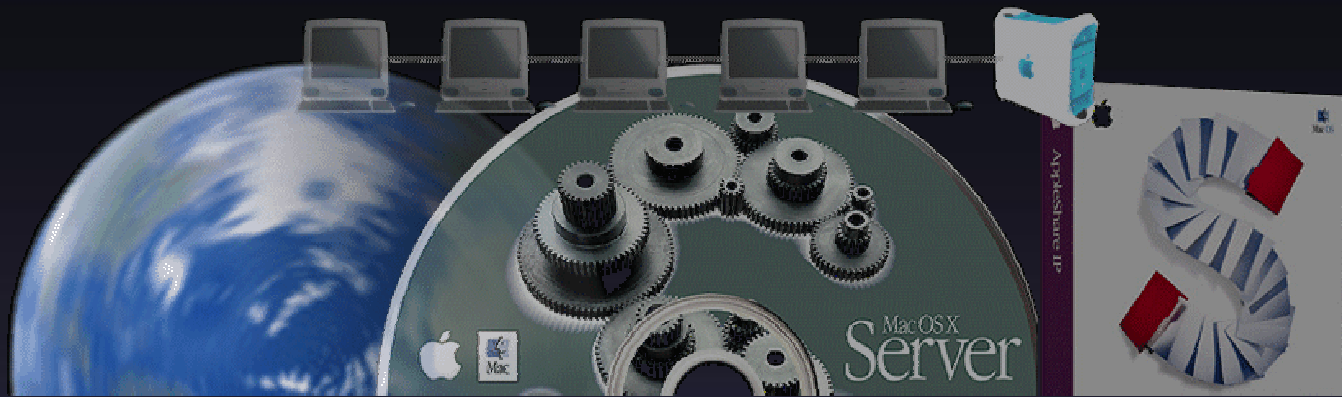
Server Admin API

- Manage and monitor configuration, events and status
- Extend administration software or build additional monitoring and statistics capabilities



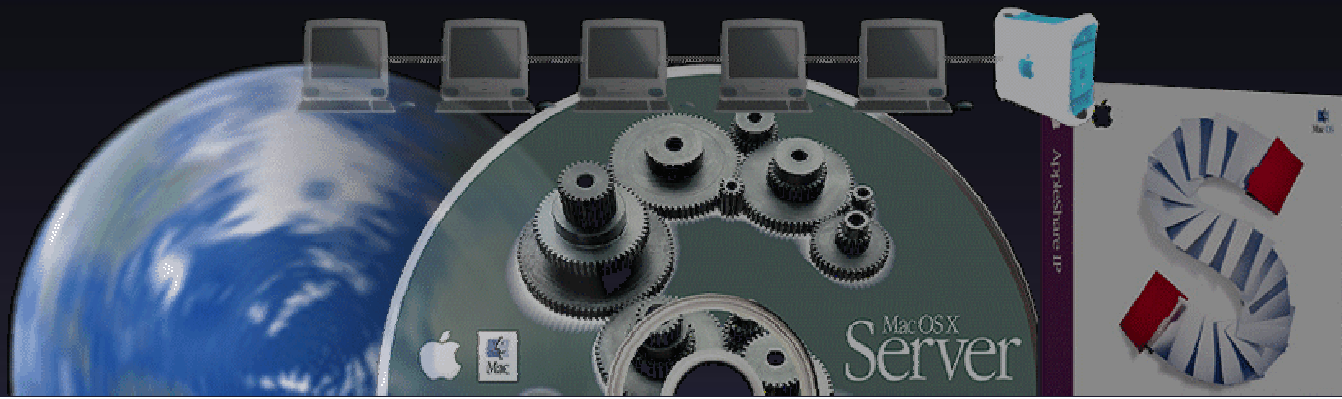
Apple Servers

- Offer feature rich services as part of flexible and scalable server software
- Deliver high-performance, high-value hardware to run it all



A Platform to Build On

- Both AppleShare and Mac OS X Server offer a variety of developer opportunities



Related Sessions Still Ahead

**Directory Services and
NetInfo:**

Hall A2
Thur., 4:00pm

AppleShare Tech Overview:

Hall C
Thur., 2:30pm

NetBoot Server:

Hall 2
Thur., 10:00am

Printing for Mac OS:

Hall A1
Wed., 4:00pm



Resources

- Apple Developer Connection:
<http://www.apple.com/developer>
- WWDR Contacts:
Tom Weyer
weyer@apple.com





Think different.TM



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