



# System Administration of Mac OS X Clients

Implement, integrate, and maintain Mac OS X solutions in a multiplatform environment.

## Key Features

- Hands-on experience using Apple's latest industrial-strength Mac OS X operating system
- Thorough Mac OS X training for experienced system administrators and IT professionals supporting Mac OS X users in a multiplatform environment
- Certification exam available to validate high level of technical competency

## You Will Learn How To

- Manage Mac OS X workstations in a multiplatform environment comprised of Mac OS X, Mac OS X Server, Windows, and UNIX operating systems
- Implement and integrate services and solutions that are based on or include Mac OS X desktop and mobile solutions
- Implement, maintain, troubleshoot, and back up Mac OS X installations

Use the skills, tools, and knowledge from this course to troubleshoot and develop best practices for implementing and integrating Mac OS X. Become the lead system administrator on Apple's latest UNIX-based operating system, Mac OS X.

## Course Description

System Administration of Mac OS X Clients is a five-day course that provides students with the skills, tools, and knowledge to implement, integrate, and maintain Mac OS X in a multiplatform environment. Students will learn how to implement and integrate solutions that are based on or include Mac OS X, and take into account systems using Windows and UNIX.

A combination of lecture and hands-on case study exercises provide practical real-world experience.

## Who Should Attend?

This class is for system administrators and IT professionals who are responsible for implementing, integrating, or maintaining Mac OS X workstations in a multiplatform environment comprised of Mac OS X, Mac OS X Server, Windows, or UNIX operating systems.

## Fact Sheet

System Administration of Mac OS X Clients

## Prerequisites

Students should have the following prerequisite knowledge prior to attending the course:

- Completion of the Mac OS X Help Desk Essentials and Mac OS X Server Essentials courses or equivalent knowledge
  - Know how to set up and configure individual Mac OS X workstations to access network-based services; use Mac OS X Server to provide network-based services to a collection of individual workstations; and manage multiple Mac OS X users and workstations using Mac OS X Server
- Network and Internet topical knowledge**
- Basic network planning and analysis (bandwidth impact, network devices, cabling requirements)
  - Define the purpose/function/use of the following protocols/services:
    - TCP, IP, UDP
    - Internet client applications (Web, FTP, Telnet/SSH, email)
    - FTP, TFTP, HTTP, HTTPS, TELNET, ARP
    - Mail system protocols and services (SMTP, POP3, IMAP, DNS)
    - Remote Access protocols (PPP, PPPoE)
    - Virtual Private Networks
    - NetBIOS and WINS
  - TCP/IP basics
    - Understand IP address, subnet masks, ports, and protocols
    - Uses of DHCP vs. static IP
  - Server basics
    - Understand HTML, CGI, SQL, Scripting
    - Describe MIME types and their use as it relates to web servers
    - Describe server caching and proxy caching
  - Familiarity with the following command-line tools:
    - ping
    - ifconfig
    - traceroute
    - arp
    - netstat
    - nslookup

These prerequisites can be met by studying the same training courses or technical books that will prepare you to take the CompTIA Network+ and i-Net+ exams. By studying such material, you will be well-positioned to earn Network+ and i-Net+ certification in addition to qualifying for entrance to the Apple ACSA certification courses.

## Recommended Next Steps

**System Administration of Mac OS X Clients exam**  
Demonstrate your knowledge of Mac OS X by taking and passing the System Administration of Mac OS X Clients exam, the first exam in the Apple Certified System Administrator (ACSA) track. To schedule an exam, call Prometric toll-free at 888-APL-EXAM (888-275-3926) or register online at [www.2test.com](http://www.2test.com).

**Additional Apple Certified System Administrator course and exam**

As your job responsibilities increase or you find yourself managing Mac OS X Server systems or Xserve rack-optimized servers in a multiplatform environment, we recommend taking the next course and exam in the Apple Certified System Administrator track, System Administration Using Mac OS X Server.

## To Register

To register for an Apple Training course, please visit [training.apple.com](http://training.apple.com) or call 800-848-6398. To schedule an onsite course at your organization's location, please call 800-848-6398 or email [abouttraining@apple.com](mailto:abouttraining@apple.com).

**Onsite course**

Order number D2815Z/A

**Coordinated onsite**

Order number D2814Z/A

**Apple Training Center**

Order number D2813Z/A

## Course Outline

Topic	Description
Chapter 1 Introduction	Understand ACSA administrative challenges from the client perspective and what this course will cover throughout the week.
Chapter 2 Unmanaged Networking	Understand automatic local area network configuration and service discovery supported by Mac OS X with emphasis on Rendezvous.
Chapter 3 IP Networks and Services	Describe Mac OS X network services and architecture. Learn how to troubleshoot network configuration problems.
Chapter 4 Understanding Mac OS X Network Architecture	Understand how Mac OS X is configured beyond the human interface, how DNS resolution is implemented in the operating system, and how to fully understand the active network configuration in Mac OS X.
Chapter 5 Monitoring and Troubleshooting	Use system administrator graphical and command-line tools to monitor and troubleshoot network problems in a Mac OS X system.
Chapter 6 Maintaining Local Volumes and Files	Configure, mount, and manage local disk volumes with various formats, and optimize disk space and layout.
Chapter 7 File Permissions and Flags	Use file permissions and flags to provide data security.
Chapter 8 Network File Services	Use graphical and command-line utilities to share the local file system over the network through AFP, SMB, and FTP for peer-to-peer file services between Mac OS X and other platforms.
Chapter 9 Mounting Remote File Systems	Configure Mac OS X to provide network browsing to users and to enable access to NFS, AFP, SMB, and FTP volumes on remote file servers.
Chapter 10 Printing	Configure and support workstations in an existing printer services environment.
Chapter 11 Understanding Directory Services	Understand the benefits of implementing effective organizational directory services.
Chapter 12 Accessing Local Directory Services	Understand the architecture of Open Directory in Mac OS X and its process architecture to customize Open Directory's behavior.
Chapter 13 Accessing Mac OS X Server Directory Services	Configure Mac OS X computers to access directory services provided from Mac OS X Server.
Chapter 14 Accessing Third-Party Directory Services	Configure Mac OS X computers to access directory services provided from third-party directory services.
Chapter 15 Integrating With Kerberos	Understand how to configure Mac OS X to authenticate using a Kerberos server.
Chapter 16 Accessing Active Directory	Configure Mac OS X to access configuration data provided by Active Directory Servers.
Chapter 17 Understanding Security	Understand the security issues associated with organizational client computers, including identifying all levels of a security assessment cycle.
Chapter 18 Local Security	Use local data security features on the workstation to prevent unauthorized access in the event of workstation loss or theft.
Chapter 19 Network Security	Secure workstations from unwanted network connections.
Chapter 20 Data Management	Understand the problems and solutions associated with data management, including machine setup and backup.

## For More Information

Please visit [www.apple.com/training](http://www.apple.com/training) or call 800-848-6398 for more information about all Apple Training courses and certification programs.

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