



System Administration Using Mac OS X Server

Optimize the power of Apple's UNIX-based Mac OS X Server operating system and effectively manage Mac OS X Server in a complex mixed-network environment.

Key Features

- Hands-on training using Apple's latest industrial-strength Mac OS X Server operating system for experienced system administrators and IT professionals supporting users in a mixed-platform environment
- Find out why Mac OS X Server is an ideal platform for providing network services to Windows clients, whether in a Windows-only or a mixed-platform environment
- See how Apple's industry-leading administrative tools make open source services easy to set up and manage and allow you to scale your network as your needs grow without draining your IT budget

You Will Learn How To

- Implement and integrate services and solutions based on or that include Mac OS X, Mac OS X Server, Windows, and UNIX
- Manage Mac OS X Server in a mixed-platform environment comprised of Mac OS X, Windows, and UNIX operating systems
- Deploy, maintain, troubleshoot, and back up Mac OS X installations

Integrate seamlessly with your existing infrastructure. Use the skills, tools, and knowledge from this course to simplify administration and support of Macintosh, Windows, and UNIX clients. Get the extra edge in today's competitive IT environment and become the lead system administrator on Mac OS X Server.

Course Description

System Administration Using Mac OS X Server is a five-day course that focuses on planning, security, and interoperability with multiple operating systems. In addition to using Mac OS X Server to provide services to multiple clients, students will learn how to seamlessly integrate Mac OS X Server with other servers. Students will also learn how to effectively plan and easily implement a Mac OS X Server deployment that considers a preexisting network environment.

Who Should Attend?

This class is for system administrators, network engineers and analysts, and IT professionals who are responsible for analyzing business and technical requirements and architecting, implementing, or maintaining solutions using Mac OS X Server in a mixed-platform environment comprised of Mac OS X, Mac OS X Server, Windows, or UNIX operating systems.

Fact Sheet

System Administration Using Mac OS X Server

Prerequisites

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

- Completion of the System Administration of Mac OS X Clients course or equivalent knowledge
- Be able 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; and implement, maintain, troubleshoot, and back up Mac OS X installations

Network and topical knowledge

- Basic network planning and analysis (bandwidth impact, network devices, cabling requirements)
- Define the purpose, function, or use of the following protocols and services:
 - TCP, IP, UDP
 - Internet client applications (Web, FTP, 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 versus static IP
- Server basics:
 - Understand HTML, CGI, SQL, Scripting
 - Describe MIME types and their use as they relate to web servers
 - Describe server caching and proxy caching
- Familiarity with the following command-line tools:
 - `ping`
 - `ifconfig`
 - `tracerouteS`
 - `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 Using Mac OS X Server certification

Demonstrate your knowledge of Mac OS X Server by taking and passing the System Administration Using Mac OS X Server exam, the second 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 2test.com.

You are required to have an Apple Tech ID number before registering for an exam. You can apply for a Tech ID by following the instructions at certifications.apple.com. Then, to register for an exam, call Prometric toll-free at 888-APL-EXAM (888-275-3926) or register online at 2test.com.

To Register

To register for an Apple Training course, please visit 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.

Apple Training Center course

Order number D2880Z/A

Coordinated onsite course

Order number D2881Z/A

Onsite course

Order number D2882Z/A

Course Outline

Topic	Description
Chapter 1 Introduction	Overview of topics covered in the course and the certification process.
Chapter 2 Installation and Setup	Remote installation and configuration of Mac OS X Server. Both command-line and graphical tools will be covered. Automated setup of Mac OS X Server will also be covered.
Chapter 3 Network Setup	Describe Mac OS X network services and architecture. Learn how to troubleshoot network configuration problems.
Chapter 4 Network Encryption	Create SSL certificate signing requests and self-signed certificates for use with services running on Mac OS X Server. Configure Mac OS X Server as a VPN server using Level-Tunneling Protocol.
Chapter 5 OpenLDAP	Use Open Directory server to provide user account information with LDAPv3 directory services. Populate Open Directory to contain contact information for use with Address Book or other standard LDAP clients.
Chapter 6 Single Sign-on	Configure Open Directory server's LDAP, Kerberos, and SASL password server to provide an integrated network authentication solution.
Chapter 7 Integrating Kerberos Services	Configure Mac OS X Server to work with third-party Kerberos services.
Chapter 8 Replication	Replicate Open Directory data and passwords for redundancy and load-sharing.
Chapter 9 Disk Quotas	Plan and implement a disk quota policy on Mac OS X Server.
Chapter 10 File Sharing	Configure file sharing via AFP, SMB, and NFS on Mac OS X Server.
Chapter 11 Dynamic Web	Use Apache and MySQL to provide dynamic web content using tools such as PHP, Tomcat, and JBoss.
Chapter 12 Mail Services	Set up, configure, and maintain Apple Mail Server for Mac OS X so that clients can send mail to and receive mail from other Internet mail servers.
Chapter 13 Backup	Devise strategies for backing up, archiving, and restoring data stored on Mac OS X Server.
Chapter 14 High Availability	Configure Mac OS X Server for high availability. Software solutions such as IP Failover and hardware solutions such as XServer RAID will be covered.

For More Information

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

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