



Xsan Administration v1.1

Set up, configure, and optimize your SAN solution.

What you will learn

- Configuration of components in a typical Apple SAN implementation, including Apple's Host Bus Adaptor, Xserve RAID, and Xsan
- Maintain your Xsan volume by adding more storage, backing up the data, and controlling access
- Fibre Channel protocols and theory, which will help in the configuration and troubleshooting of SAN hardware
- Xsan design and implementation considerations for business, scientific, and video environments

Learn how to implement and administer Xsan, Apple's enterprise file system designed for storage area networks (SAN). Take advantage of Xsan's built-in flexibility and create shared volumes on your SAN compatible with third-party products, maximizing the return on your storage investment. Use the skills, tools, and knowledge from this course to set up, manage, and monitor the SAN that's right for your organization.

Course Description

The three-day Xsan Administration v1.1 course focuses on deploying storage area networks. Students configure, performance tune, and troubleshoot a storage area network using Apple's Xsan tools. The course also covers storage resource management and data protection. A combination of lecture and hands-on exercises provides practical real-world experience. A portion of the final class day is available for assisted exploration and scenario testing.

Who Should Attend?

This class is for system administrators, network engineers, analysts, and IT professionals who are responsible for analyzing business and technical requirements and architecting, implementing, or maintaining storage networking solutions using Xsan.

Certification

Demonstrate your knowledge by taking the Xsan Administration v1.1 Exam (9L0-610)—US\$150.

The exam covers the knowledge necessary to configure and maintain all Apple software and hardware components necessary for an Xsan cluster file system. For specific exam objectives, see the Skills Assessment Guide for the Xsan Administration v1.1 Exam.

Successful completion of the exam earns Apple Xsan Administration certification and also contributes 3 credits towards Apple Certified System Administrator (ACSA) v10.4 certification.

To register for the 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 any Apple exam. You can apply for a Tech ID by following the instructions at certifications.apple.com.

To Register

To register for an Apple Training course, please visit train.apple.com, call 800-848-6398, or email abouttraining@apple.com.

Apple Training Center Course
Order number D3476Z/A

Onsite Course
Order number D3478Z/A

Coordinated Onsite Course
Order number D3477Z/A

Prerequisites

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

Course knowledge

- Basic storage knowledge
- Practical working knowledge of computers

Network and topical knowledge

- Basic networking fundamentals
- Networks and layers
 - Network communication
 - Network devices
- Server basics
 - Basic file-serving knowledge

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 these materials, you will be well-positioned to earn Network+ and i-Net+ certification in addition to qualifying for entrance to the Apple Certified System Administrator (ACSA) certification courses.

Course Outline

Topic	Description
Chapter 1 Introduction	Overview of topics presented in the course.
Chapter 2 Xsan Overview	Compares direct-attached storage with networked storage using NAS and SAN. Introduces Fibre Channel.
Chapter 3 SAN Components	Covers Fibre Channel components such as HBAs, cabling and connector types, switches, and RAID sets.
Chapter 4 Fibre Channel	Covers point-to-point, arbitrated loop, and fabric topologies, addressing and naming, including World-Wide Node Name (WWNN) and World-Wide Port Name (WWPN).
Chapter 5 Xsan Metadata	Details the implementation and configuration of the Xsan file system.
Chapter 6 Xsan Volumes	Covers the Xsan Admin graphical tool as well as command-line tools.
Chapter 7 Data Management	Covers the issues which arise in dealing with the large amount of data typical in a SAN. Information lifecycle management, backup, and quotas are all covered.
Chapter 8 Xsan Planning and Maintenance	Discusses the considerations of building an Xsan infrastructure, including bandwidth. Volume maintenance and modifications are covered.
Chapter 9 Challenge	Use the skills learned in the course to configure an Xsan environment to meet a given set of requirements. Includes time for assisted exploration and scenario testing.

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.