

## Integrating Mac OS<sup>®</sup> X into a Windows<sup>®</sup> Environment: Hands-On - 4 Days

### Course 947 Overview

- You Will Learn How To**
- Install and configure Mac OS X desktops and servers to seamlessly integrate into a Windows network
  - Navigate the OS X file system, install Mac applications and run Windows virtual machines
  - Share enterprise resources across a diverse Windows and Mac OS X network
  - Configure LDAP services including Active Directory and Open Directory
  - Streamline daily tasks with tools like ADUC, Workgroup Manager, Remote Desktop and Time Machine
  - Deploy network services like DNS, Time and replication to establish Mac/Windows communication
- Course Benefits** As Mac OS X computers have gained popularity with a wider range of users, the need for seamless integration between Mac and Windows resources has become imperative. Network administrators must have the knowledge and tools required to integrate Mac OS X and Windows. In this course, you gain the skills to build a completely integrated OS X and Windows network.
- Who Should Attend** Network and system administrators, help desk and support personnel and Windows power users moving to Macintosh. General networking knowledge at the level of Course 450, "Networking Comprehensive Introduction," is assumed.
- Hands-On Training** Through a progressive case study, you gain practical experience integrating OS X desktops and servers into a Windows enterprise environment. Exercises include:
- Installing and configuring Mac OS X Server
  - Navigating the Mac OS X user interface
  - Running Windows virtual machines in OS X
  - Performing system administration tasks
  - Administering the Active Directory with ADUC
  - Simplifying administration with Workgroup Manager
  - Building your own enterprise network with Mac and Windows clients and servers

# Integrating Mac OS<sup>®</sup> X into a Windows<sup>®</sup> Environment: Hands-On - 4 Days

## Course 947 Outline

### Mac OS X Overview

- Installing OS X
- Exploring operating system features
- Configuring OS X clients and servers
- Establishing requirements for interoperability

### Discovering the Mac User Interface Server operating system features

- Directory Services
- File Sharing Services
- Client Management
- Networking Services

### Navigating the file system

- Managing the file system with Finder
- Uncovering the UNIX file system
- Manipulating the file system with Terminal

### Installing Mac applications

- Comparing drag and drop vs. Installer programs
- Examining the architecture of the Applications folder and application packages

### Running Windows on the Mac platform

- Virtualizing Windows installations with VMware and Parallels
- Booting Windows natively with Bootcamp

### Managing OS X Network Integration

#### Setting network preferences

- Establishing appropriate protocols for communication
- Activating network devices: Ethernet, Bluetooth and AirPort
- Selecting network preferences using the Sharing panel

#### User account administration

- Adding users
- Defining security for user accounts

#### Crafting OS X and Windows workgroups

- Sharing files between Macs
- Setting permissions on file system objects
- Connecting Macs with SMB and AFP protocols
- Browsing for Mac resources with Finder
- Connecting with PCs using SMB

#### Sharing system resources

- Printer sharing
- Screen sharing
- Web sharing
- XGrid
- FTP

### Building Centralized Directory Services Integrating OS X into the Windows Active Directory (AD)

- Implementing LDAP services: AD and Open Directory
- Configuring AD for Mac integration
- Building AD containers and objects
- Establishing AD security for OS X clients

### Configuring directory services on an OS X client

- Leveraging Directory Utility for enterprise access
- Activating the AD plug-in and Open Directory components

### Managing OS X clients with Open Directory (OD)

- Centralizing administration with a Mac server
- Synchronizing security between AD and OD resources
- Building a common desktop with standard resources
- Controlling printer access with groups

### Simplifying OS X and Windows Administration

#### Managing network resources and clients

- The AD Users and Computers (ADUC) tool
- OS X Server Workgroup Manager

#### Accessing desktops remotely

- Microsoft Remote Desktop Connection
- Apple Remote Desktop

#### Automating OS X backups

- Formatting disk resources with Disk Utility
- Protecting data with Time Machine
- Centralizing backups with Time Capsule

### Integrating Enterprise Services

#### Building enterprise DNS for AD and OD

- Establishing the primary DNS architecture
- Resolving DNS names across platforms

### Synchronizing time services

- Aligning time services for authentication
- Configuring W32Time and SNTP

### Authenticating users with Kerberos

- Establishing Kerberos authentication paths
- Investigating Kerberized applications

### Creating directory redundancy

- Replicating the Open Directory
- Specifying Master/Replica configuration