

Sun Educational Services—Instructor-led Course Description



Intermediate System Administration for the Solaris™ 9 Operating Environment SA-239

The *Intermediate System Administration for the Solaris™ 9 Operating Environment* course provides students with the necessary knowledge and skills to perform essential system administration tasks in the Solaris 9 OE, such as installing software, managing file systems, performing system boot procedures, performing user and security administration, managing network printers and system processes, and performing system backups and restores. This course is the second of a two-part series that individuals take in preparation for Part I of the Sun Certified System Administration for Solaris™ examination.

Who Can Benefit

Students who can benefit from this course are preparing to perform essential system administration procedures in the Solaris OE.

Prerequisites

To succeed fully in this course, students should be able to:

- Perform basic UNIX® tasks
- Understand basic UNIX commands
- Use the vi text editor
- Interact with a windowing system

Skills Gained

Upon completion of this course, students should be able to:

- Manage file systems
- Install software
- Perform system boot procedures
- Perform user and security administration

- Manage network printers and system processes
- Perform system backups and restores
- Manage, list, and format local disk devices
- Mount and unmount different types of file systems
- Perform package and patch administration
- Use boot programmable read-only memory (PROM) commands and change nonvolatile random access memory (NVRAM) parameters

Related Courses

Before:

- SA-119: *UNIX® Essentials Featuring the Solaris™ 9 Operating Environment*

After:

- SA-299: *Advanced System Administration for the Solaris™ 9 Operating Environment*
- SA-245: *Shell Programming for System Administrators*

40%
Lab

5
Days
Duration

Course Outline

Module 1 – Introducing the Solaris™ OE Directory Hierarchy

- Describe / (root) subdirectories
- Describe file components
- Describe file types
- Use hard links

Module 2 – Managing Local Disk Devices

- Describe the basic architecture of a disk
- Describe the naming conventions for devices
- List devices
- Reconfigure devices
- Perform disk partitioning
- Manage disk labels
- Describe the Solaris™ Management Console
- Partition a disk by using the Solaris Management Console

Module 3 – Managing the Solaris OE File System

- Describe Solaris OE file systems
- Create a new ufs file system
- Check the file system by using the fsck command
- Resolve file system inconsistencies
- Monitor file system use

Module 4 – Managing the Solaris File System

- Identify mounting fundamentals
- Perform mounts
- Perform unmounts
- Access mounted diskettes or CD-ROMs
- Restrict access to a mounted diskette or CD-ROMs
- Access a diskette or CD-ROM without Volume Management

Module 5 – Installing the Solaris™ 9 Operating Environment

- Identify the fundamentals of CD-ROM installation
- Install the Solaris™ 9 Operating Environment from a CD-ROM
- Identify the upgrade options for the Solaris 9 OE

Module 6 – Performing Solaris 9 OE Package Administration

- Describe the fundamentals of package administration
- Administer packages by using the command-line interface

Module 7 – Managing Software Patches on the Solaris 9 OE

- Describe the fundamentals of patch administration
- Install and remove patches

Module 8 – Executing Boot PROM Commands

- Identify boot programmable read-only memory (PROM) fundamentals
- Use basic boot PROM commands
- Identify the system's boot device
- Create and remove custom device aliases
- View and change nonvolatile random access memory (NVRAM) parameters from the shell
- Interrupt an unresponsive system

Module 9 – Performing Boot and Shutdown Procedures

- Identify run level fundamentals
- Identify the phases of the boot process
- Control boot processes
- Perform system shutdown procedures

Module 10 – Performing User Administration

- Describe user administration fundamentals
- Manage user accounts
- Manage initialization files

Module 11 – Performing System Security

- Monitor system access
- Switch users on a system
- Control system access
- Restrict access to data in files

Module 12 – Configuring Printer Service

- Identify network printing fundamentals
- Configure printer services
- Administer printer services
- Start and stop the line printer (LP) print service

Module 13 – Using Print Commands

- Specify a destination printer
- Use the LP print service

Module 14 – Controlling System Processes

- View system processes
- Clear frozen processes
- Schedule an automatic one-time execution of a command
- Schedule an automatic recurring execution of a command

Module 15 – Performing File System Backups

- Identify the fundamentals of backups
- Back up an unmounted file system

Module 16 – Performing File System Restores

- Restore ufs file systems
- Explain disaster recovery fundamentals

Module 17 – Backing Up a Mounted File System With a UFS Snapshot

- Create a UFS snapshot
- Back up the snapshot file