System Administration for the Oracle Solaris 10 OS Part 1

Duration: 5 Days

What you will learn

This System Administration for the Oracle Solaris 10 OS, Part 1 course helps you gain expertise in the basic system administration concepts of Oracle Solaris 10. Expert Oracle University instructors will help you become further engaged with the most efficient, secure and reliable operating system.

You can use this course as a stepping stone to learn advanced technologies taught in System administration for the Oracle Solaris 10 OS Part 2 course.

Counts Toward Certification Requirement

This course counts towards the hands-on course requirement for the Oracle Solaris 10 System Administrator Certification. Only Classroom Training or Live Virtual Class formats of this course will meet the certification hands-on requirement. Self-Study Courses and Knowledge Center courses DO NOT meet the hands-on Requirement.Learn To:
Perform basic system installation and configuration on Oracle Solaris 10 1/13 OS.
Maintain and operate Oracle Solaris 10 1/13.
Effectively administer file systems, users, services, processes, packages and network interfaces.
Manage local disk devices.
Perform mounts and unmounts.
Describe interface configurations.

Audience
System Administrator

Related Training

Required Prerequisites

To succeed in this course, you should be able to create procedural application programs.

Oracle Solaris 10 Operating System Essentials

Course Objectives
Administer packages

Control and monitor network interfaces

Control system processes

Install software

Manage disk labels and system devices

Manage file systems

Obtain and use patches

Perform mounts and unmounts

Perform system boot procedures

Perform user administration

Use SMF administrative commands

Course Topics

Introducing the Solaris 10 OS Directory Hierarchy
Introducing File Systems
Introducing File Components
Identifying File Types
Using Hard Links

Managing Local Disk Devices
Basic architecture of a disk
Oracle Solaris OS Naming Conventions for Devices
Listing System Devices
Reconfiguring Devices
Partitioning a Hard Disk
Extended Volume Table of Contents

Managing UFS File Systems
Oracle Solaris OS File Systems
Creating a New UFS File System
Checking the File System Using the fsck Command
Resolving File System Inconsistencies
Monitoring File System Use

Performing Mounts and Unmounts
Working With Mounting Basics
Performing Mounts
Managing ZFS Mount Points
Performing Unmounts
Accessing Mounted Diskettes, CD-ROMs, or DVDs
Restricting Access to Mounted Diskettes, CD-ROMs, or DVDs

Accessing a Diskette, CD-ROM, or DVD Without VMS

ZFS File System Introduction
Describing the Oracle Solaris ZFS file system
Defining ZFS Terminology
Creating new ZFS pools and file systems
Destroying ZFS pools and file systems
Modifying ZFS file system properties
Working with ZFS snapshots and clones

Describing Interface Configurations
Controlling and Monitoring Network Interfaces
Configuring IPv4 Interface Files

Performing Oracle Solaris 10 OS Package Administration
Introducing the Fundamentals of Package Administration
Administering Packages From the Command Line

Managing Software Patches on the Oracle Solaris 10 OS
Patch Administration Preparation
Installing and Removing Patches
Using the smpatch Command
Configuring the Patch Management Environment

Using Boot PROM Commands
Introducing Boot PROM Fundamentals
Using Basic Boot PROM Commands
Identifying the System Boot Device
Creating and Removing Custom Device Aliases
Viewing and Changing NVRAM Parameters From the OS
Interrupting an Unresponsive System

Using the Grand Unified Bootloader
Introduction to GRUB
Modifying x86 System Boot Behavior in the Oracle Solaris OS
The findroot Command for x86
Managing GRUB Boot Archives
Booting a System in the GRUB-Based Boot Environment
Interrupting an Unresponsive System

Performing Legacy Boot and Shutdown Procedures
Solaris SPARC Boot Design Overview
Legacy Boot and Shutdown
Identifying Boot Process Phases
Legacy Run Level Fundamentals
Controlling Legacy Boot Processes
Performing System Shutdown Procedures

Service Management Facility (SMF)
Introduction to SMF
Secure By Default

Performing User Administration
Introducing User Administration
Setting Password Aging on a User Account
Managing User Accounts
Managing Initialization Files

Controlling System Processes
Viewing System Processes
Killing Frozen Processes
Scheduling an Automatic One-Time Execution of a Command
Scheduling an Automatic Recurring Execution of a Command

Oracle Solaris 10 Operating System Installation Requirements
Identifying the Hardware Requirements for Oracle Solaris 10 OS Installation
Identifying the Fundamentals of Oracle Solaris 10 OS Installations
Identifying the Oracle Solaris 10 OS Software Components
Defining Guidelines for Installing Oracle Solaris 10 OS from a DVD
Secure by Default Installation Enhancement