System Administration for the Oracle Solaris 10 part 1

Course Description

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.

Duration

5 days

Audience

- System Administrator

Prerequisities

- Oracle Solaris 10 Operating System Essentials

Course Topics

Introducing the Solaris 10 OS Directory Hierarchy

- Introducing File System
- 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 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

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 Inteface 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 the Patch Management Environment
- 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

- Understanding DNS
- Understanding Different DNS Server Modes
- Analyzing DNS Output with dig
- Setting up a Cache-only DNS Nameserver
- Opening the Firewall for DNS
- Working with Cache Dumps