

Oracle Solaris 11 System Administration

Duration: 5 Days

What you will learn

The Oracle Solaris 11 System Administration course is designed to provide enterprise system administrators, who are new to the Oracle Solaris 11 Operating System, with the skills they need to perform their job tasks successfully and efficiently.

The course covers the full range of introductory system administration tasks from installing the operating system on a single system to monitoring and basic troubleshooting. The course provides an intensive hands-on experience for key system administration tasks with the goal of making the system administrator job-ready.

Learn To:

- Perform basic installation and software package updates
- Perform basic services, process, and access control management
- Perform basic data storage, zones, network and user administration

This course will help you prepare for the Oracle Certified Associate, Oracle Solaris 11 System Administrator certification, [Click here to know more about the Certification.](#)

Audience

- Support Engineer
- System Administrator

Prerequisites

- Required Prerequisites*
- Basic UNIX skills

Course Objectives

- Control access to systems and files
- Manage system processes
- Schedule system tasks
- Monitor the system
- Troubleshoot system issues
- Install the Oracle Solaris 11 operating system using an interactive installer
- Update the Oracle Solaris 11 operating system using IPS
- Manage software packages in the Oracle Solaris 11 operating system
- Administer SMF services
- Start up and shut down a system
- Manage data storage using ZFS
- Administer an Oracle Solaris zone
- Administer a physical network

Set up and administer user accounts

Course Topics

Installing Oracle Solaris 11 Using an Interactive Installer

Preparing for the Installation

Performing the Installation

Verifying the Installation

Updating the Oracle Solaris 11 OS Using IPS

Retrieving Packages from the IPS Repository

Installing a Package

Verifying a Package Installation

Uninstalling a Package

Searching for a Package

Managing Software Packages

Managing Software Packages Using the Command Line

Manage Software Packages Using Package Manager

Administering SMF Services

Monitoring Services

Enabling a Service

Disabling a Service

Restarting a Service

Booting and Shutting Down a System

Booting a System

Shutting Down a System

Managing ZFS Storage Pools

Creating a ZFS Storage Pool

Managing ZFS Storage Pool Properties

Querying ZFS Storage Pool Status

Destroying a ZFS Storage Pool

Managing ZFS File Systems

Creating and Destroying a ZFS File System

Managing ZFS File System Properties

Querying ZFS File System Information

Mounting and Unmounting ZFS File Systems

Using ZFS Snapshots and Clones

Creating a ZFS Snapshot

Destroying a ZFS Snapshot

Displaying a ZFS Snapshot

Creating a ZFS Clone

Destroying a ZFS Clone

Administering an Oracle Solaris Zone

Logging in to a Zone

- Exiting a Zone
- Shutting Down a Zone
- Starting Up a Zone
- Halting a Zone
- Assessing a Zone Configuration
- Monitoring a Zone

Administering a Physical Network

- Determining Datalink Availability
- Configuring a Network Interface
- Administering a Network Interface
- Verifying Network Operation

Setting Up and Maintaining User Accounts

- Adding Users and Groups
- Modifying User and Group Accounts
- Deleting User and Group Accounts
- Setting Password Aging

Configuring User Shells and User Disk Quotas

- Configuring User Shells
- Configuring User Disk Quotas

Controlling Access to Systems

- Securing Logins and Passwords
- Changing the Password Algorithm
- Verifying System Access Control

Controlling Access to Files

- Protecting Files with Basic Permissions
- Protecting Against Programs with Security Risk
- Verifying File Access Control

Configuring and Using Secure Shell

- Configuring Secure Shell
- Using Secure Shell

Managing System Processes

- Listing System Processes
- Controlling System Processes
- Killing a Process

Scheduling System Tasks

- Scheduling Repetitive System Tasks
- Administering crontab Files

Monitoring System Logs and Crash and Core Dump Files

- Introducing System Logs
- Introducing Crash Dump Files
- Introducing Core Dump Files

Performing Basic Troubleshooting

Troubleshooting a Script Execution Issue
Troubleshooting a Software Update Failure
Troubleshoot a Network Connectivity Issue
Troubleshooting a Directory Access Issue
Troubleshooting a Default Shell Issue