

## 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,

## 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

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## REGISTRATION AND INFORMATION

[education@ecs.com.sg](mailto:education@ecs.com.sg)  
[www.ecs.com.sg/training](http://www.ecs.com.sg/training)

## 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