

Oracle Solaris 11 Advanced System Administration

Duration: 5 Days

What you will learn

The Oracle Solaris 11 Advanced System Administration course provides an intensive hands-on experience, working with complex and integrated administration concepts. The course builds on the system administration skills taught in the Oracle Solaris 11 System Administration course.

This course highlights an array of advanced subjects and technologies, such as installing Oracle Solaris 11 using the Automated Installer (AI), using the Image Packaging System (IPS) for package management, configuring zones and virtual networks, and configuring IP multipathing. You also learn how to secure the system through the use of privileges and auditing and how to manage processes and evaluate system resources. You are also shown the tools you need to effectively and efficiently troubleshoot software failures.

Learn To:

- Manage packages quickly and efficiently
- Use AI to install the OS on multiple hosts
- Configure network and traffic failover
- Manage services and service properties
- Configure zones and the virtual network
- Use ZFS to manage business application data

Audience

- Data Center Manager
- Support Engineer
- System Administrator
- System Integrator
- Technical Consultant

Prerequisites

Required Prerequisites

Experience with Oracle Solaris Zones

Knowledge of the ZFS file system

Suggested Prerequisites

Oracle Solaris 11 System Administration

Course Objectives

- Manage business application data
- Create an Oracle Solaris 11 virtual network
- Configure Oracle Solaris zones
- Configure SMF services

- Configure privileges
- Manage the Image Packaging System (IPS)
- Configure Role Based Access Control
- Manage processes and priorities
- Configure system resources
- Monitor system performance
- Configure system messaging
- Troubleshoot software failures
- Install the Oracle Solaris 11 operating system using the Automated Installer

Course Topics

Managing the Image Packaging System (IPS) and Packages

- Configuring a Local IPS Package Repository
- Managing Packages and Package Publishers

Installing Oracle Solaris 11 OS on Multiple Hosts

- Installing Oracle Solaris 11 Using the Automated Installer
- Configuring Oracle Solaris Images

Managing Business Application Data

- Managing Data Redundancy with Mirrored Storage Pools
- Backing Up and Recovering Data with ZFS Snapshots
- Managing Data Storage Space with ZFS File System Properties
- Troubleshooting ZFS Failures

Configuring Network and Traffic Failover

- Configuring Systems on a Local Network
- Configuring Network Auto-Magic
- Configuring Network File System
- Configuring Link Aggregation
- Configuring an IPMP Group
- Implementing Link Failover Using IPMP
- Monitoring an IPMP Group

Configuring Zones and the Virtual Network

- Configuring Virtual Network Components
- Configuring Zones with VNICs
- Allocating Resources to a Zone

Managing Services and Service Properties

- Configuring SMF services
- Troubleshooting the SMF Services

Configuring Privileges and Role Based Access Control

- Configuring and Managing Privileges
- Configuring and Using RBAC

Securing System Resources Using Oracle Solaris Auditing

- Configuring Oracle Solaris Auditing
- Administering Oracle Solaris Auditing

Managing Processes and Priorities

Managing System Processes

Managing Process Scheduling Priority

Managing the Scheduling Class of a Zone

Monitoring the Fair Share Scheduler

Configuring the Fair Share Scheduler

Evaluating System Resources

Configuring System Resources

Monitoring System Performance

Monitoring and Troubleshooting Software Failures

Configuring System Messaging

Configuring System Crash Facilities

Configuring Dump Facilities for Business Application Failure