

## What you will learn

This course builds on student's system administration experience with Oracle Solaris 10 and provides the skills and knowledge required for transitioning from Oracle Solaris 10 to Oracle Solaris 11. This course is intended for System Administrators and IT architects who are responsible for planning and performing transitioning tasks.

During this course, students examine various aspects of planning for the transition from Oracle Solaris 10 to Oracle Solaris 11. This course highlights the new features delivered with Oracle Solaris 11 including Automated Installer (AI), Image Packaging System (IPS), and network virtualization. Throughout the course, students practice transitioning to the Oracle Solaris 11 operating environment by performing a series of guided hands-on labs that walk the student through the critical tasks associated with operating system migration activities. These labs include case studies that showcase best practices when transitioning from Oracle Solaris 10 to Oracle Solaris 11.

This course focuses on the new and enhanced features found in the Oracle Solaris 11 operating system. It assumes the student already has the skills and knowledge necessary for administering Oracle Solaris 10.

## Audience

Data Center Manager  
Network Administrator  
Support Engineer  
System Administrator  
System Integrator

## Prerequisites

### *Required Prerequisites*

Knowledge of the ZFS file system  
Experience administering an Oracle Solaris 10 environment  
Experience with Oracle Solaris Zones

### *Suggested Prerequisites*

System Administration for the Oracle Solaris 10 OS, Part 2  
System Administration for the Oracle Solaris 10 OS, Part 1

## Course Objectives

Manage software updates in Oracle Solaris 11  
Explain the new ZFS file system features and enhancements  
Administer Zones in Oracle Solaris 11  
Manage virtual networks in Oracle Solaris 11  
Describe the new features and enhancements in Oracle Solaris 11  
Describe new user management features and enhancements  
Explain the new security administration features and enhancements  
Install Oracle Solaris 11

## Course Topics

### Introducing the Oracle Solaris 11 New Features and Enhancements

Describe the Solaris operating system features and enhancements that are new with Oracle Solaris 11  
Identify planning considerations for transitioning from Solaris 10 to Oracle Solaris 11

### Installing the Oracle Solaris 11 Operating System

Plan for the Oracle Solaris 11 OS installation  
Describe the Oracle Solaris 11 OS installation methods  
Identify the Oracle Solaris 11 OS installation requirements  
Install the Oracle Solaris 11 OS using the interactive installer  
Install the Oracle Solaris 11 OS using the automated installer (AI)  
Migrate JumpStart rules and profiles to AI format  
Identify the components of the distribution constructor

### Managing Software Updates in Oracle Solaris 11

Describe the Image Package System  
Create an IPS repository  
Manage software packages using IPS  
Publish and removing packages  
Manage boot environments

### Administering Oracle Solaris 10 Zones in Oracle Solaris 11

Identify zone features and enhancements that are new with Oracle Solaris 11  
Configure an Oracle Solaris 11 Zone  
Configure an Oracle Solaris 10 Zone on Solaris 11  
Migrate a physical Solaris 10 system into an Oracle Solaris 10 Zone on Oracle Solaris 11 (P2V)  
Perform a virtual to virtual migration of non-global zones present in source system (V2V)  
Configure NFS server in a non-global zone  
Create read-only zones

### Implementing the New Oracle Solaris 11 Network Features and Enhancements

Identify the network virtualization features and enhancements that are new with Solaris 11  
Describe the new and enhanced network utilities  
Administer Network Auto-Magic (NWAM)  
Describe Solaris 11 network virtualization  
Plan for and configure a virtual network  
Configure IPMP  
Establish network resource controls  
Configure a network bridge

## Applying the New Storage Enhancements

Describe the new and enhanced storage features

Configure ZFS deduplication

Determine ZFS snapshot differences

Describe the ZFS zpool split functionality

Split a mirrored ZFS pool

Describe ZFS shadow migration

Describe COMSTAR

Configure an iSCSI LUN, target, and initiator

## Applying the New System Security Features and Enhancements

Describe the new security features in Oracle Solaris 11

Configure data encryption.

Check the integrity of the system using the Basic Audit Reporting Tool (BART)

Customizing a BART report