

Oracle Solaris 10 ZFS Administration

Duration: 3 Days

What you will learn

Oracle Solaris ZFS offers a dramatic advance in data management, with an innovative approach to data integrity, tremendous performance improvements, and a welcome integration of file system and volume management capabilities using storage pools.

This class presents all the latest key features and functionality of Oracle Solaris ZFS and provides you with the opportunity to set up, configure, administer, manage, and troubleshoot this dynamic product.

Learn To:

- Manage pools and file systems
- Configure snapshots and clones
- Install and boot a ZFS root file system
- Troubleshoot issues and recover data
- Using Oracle Solaris ZFS with Oracle Solaris Containers

Audience

System Administrator

Related Training

Required Prerequisites

Oracle Solaris 10 Operating System administration skills

File systems and local disk drives management skills

System boot procedures knowledge

Suggested Prerequisites

User administration skills

Course Objectives

Manage ZFS storage pools

Manage ZFS file systems

Manage ZFS snapshots and clones

Install and boot a ZFS root file system

Perform ZFS troubleshooting and data recovery

Work with ZFS volumes as dump or swap devices

Use ZFS on a Solaris system with zones installed

Course Topics

Managing ZFS Storage Pools

Creating and destroying ZFS Storage Pools

Managing devices in ZFS Storage Pools

Managing ZFS Storage Pool properties

Querying ZFS Storage Pool status

Migrating and upgrading a ZFS Storage Pool

Managing ZFS File Systems

Creating and destroying ZFS File Systems

Using ZFS File System Properties

Querying ZFS File System Information

Managing ZFS File System Properties

Mounting and sharing ZFS File Systems

Setting ZFS Quotas and Reservations

Working With ZFS Snapshots and Clones

Creating, destroying, and holding ZFS Snapshots

Renaming, displaying, and rolling back ZFS Snapshots

Creating and destroying clones

Sending and receiving ZFS Snapshot data

Installing and Booting a ZFS Root File System

Performing an initial installation of a ZFS root file system

Performing a Flash Archive installation of a ZFS root file system

Performing a JumpStart Installation of a ZFS root file system

Migrating a UFS root file system to a ZFS root file system using Solaris Live Upgrade

Using ZFS support for swap and dump devices

Booting from a ZFS root file system

Recovering the ZFS root pool or root pool snapshots

Troubleshooting ZFS Issues and Recovering ZFS Data

Identifying problems in ZFS

Repairing a damaged ZFS configuration

Repairing a missing device

Repairing a damaged device

Repairing damaged data

Repairing an unbootable system

Working with ZFS Volumes

Identifying a ZFS volume

Identifying how to use a ZFS volume

Working with ZFS volumes as dump or swap devices

Using ZFS on a Solaris System with Zones Installed

Adding a ZFS file system to a non-global Zone

Delegating datasets to a non-global Zone

Adding ZFS volumes to a non-global Zone

Using ZFS Storage Pools within a Zone

Managing ZFS properties within a non-global Zone
