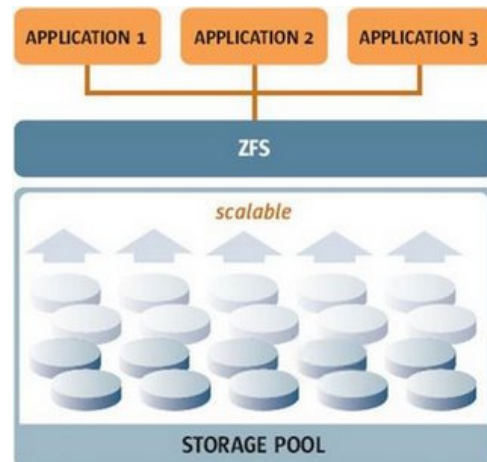


Course Description

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. Learn how to set up, configure, administer and manage this file system with classroom discussion followed by in-depth, detailed lab exercises. Topics include booting ZFS as a root file system, managing pools and file systems, configuring ZFS snapshots and clones, using ZFS with Solaris Zones, using ACLs to protect ZFS files, and troubleshooting and recovering data.



Who Can Benefit

Students who can benefit from this course are experienced Solaris OS system administrators.

Required Prerequisites:

- System Administration for the Solaris 10 Operating System, Part 2 (SA-202-S10)
- Administer the Solaris 10 Operating System
- Manage file systems and local disk drives
- Perform system boot procedures
- Solaris 10 Features for Experienced System Administrators (SA-225-S10)

Suggested Prerequisites:

- Manage user administration

Skills Gained

Upon completion of this course, students should be able to:

- Identify ZFS hardware, software, and storage requirements
- Install and Boot a Root File System
- Manage ZFS storage pools
- Manage ZFS file systems
- Manage ZFS snapshots and clones
- Describe ZFS volumes
- Use ZFS with Solaris Zones
- Describe ZFS troubleshooting and data recovery
- Use ACLs to protect ZFS files
- Delegate ZFS permissions

REGISTRATION AND INFORMATION

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Course Content

Introduction

- What Is ZFS?
- ZFS Terminology
- ZFS Component Naming Conventions

Getting Started

- Hardware and Software Requirements
- Creating a Basic File System
- Creating a Storage Pool
- Creating a File System Hierarchy

Managing Storage Pools

- Components of a ZFS Storage Pool
- Replication Features of a ZFS Storage Pool
- Creating and Destroying ZFS Storage Pools
- Managing Devices in ZFS Storage Pools
- Querying ZFS Storage Pool Status
- Migrating ZFS Storage Pools

Managing ZFS File Systems

- Creating and Destroying ZFS File Systems
- Using ZFS Properties
- Querying ZFS File System Information
- Managing ZFS Properties
- Mounting and Sharing ZFS File Systems
- Setting ZFS Quotas and Reservations

Working With ZFS Snapshots and Clones

- ZFS Snapshots
- ZFS Clones
- Sending and Receiving ZFS Data

Installing and Booting a ZFS Root File System

- Initial Installation
- JumpStart Installation
- Migrating a UFS Root File System to a ZFS Root File System
- ZFS Support for Swap and Dump Devices
- Booting from a ZFS Root File System

Troubleshooting and Data Recovery

- Reviewing ZFS Failure Modes
- Checking ZFS Data Integrity
- Identifying Problems in ZFS
- Repairing a Damaged ZFS Configuration
- Resolving a Missing Device
- Replacing or Repairing a Damaged Device
- Repairing Damaged Data
- Repairing an Unbootable System

Advanced Topics

- ZFS Volumes
- Using ZFS on a Solaris System with Zones Installed
- ZFS Alternate Root Pools
- ZFS Rights Profiles