

Solaris 10 ZFS Administration (SA-229-S10)

Course Description

The Solaris 10 ZFS Administration course describes concepts and administrative procedures associated with the Solaris ZFS file system. Topics include managing pools and file systems, ZFS snapshots and clones, ACLs, troubleshooting and data recovery.

Who Can Benefit

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

Prerequisites

To succeed fully in this course, students should be able to administer the Solaris 10 Operating System.

Skills Gained

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

- Identify ZFS hardware, software, and storage requirements
- Identify differences between ZFS and traditional file systems
- Manage ZFS storage pools
- Manage ZFS file systems
- Manage ZFS snapshots and clones
- Use ACLs to protect ZFS files
- Describe emulated volumes
- Describe ZFS alternate root pools and using ZFS with Solaris Zones
- Describe ZFS troubleshooting and data recovery

Related Courses

Before:

- Intermediate System Administration for the Solaris 10 Operating System (SA-200-S10)
- Intermediate System Administration for the Solaris 10 Operating System (SA-202-S10)
- Advanced System Administration for the Solaris 10 Operating System (SA-225-S10)
- Solaris 10 New Features for Experienced Solaris System Administrators (SA-225-S10)

After:

- Solaris Predictive Self-Healing (VC-SA-227-S10)
- Solaris 10 Security (VC-SA-228-S10)
- Solaris 10 Containers (VC-SA-230-S10)

Module 1 - Introduction

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

Module 2 - Getting Started

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

Module 3 - Differences from Traditional File Systems

- ZFS File System Granularity
- Space Accounting
- Out of Space Behavior
- Mounting File Systems
- Volume Management
- New Solaris ACL Model

Module 4 - 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

Module 5 - Managing File Systems

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

Module 6 - Working With ZFS Snapshots and Clones

- ZFS Snapshots
- ZFS Clones
- Saving and Restoring ZFS Data

Module 7 - Using ACLs to Protect ZFS Files

- New Solaris ACL Model
- Setting ACLs on ZFS Files
- Setting and Displaying ACLs on ZFS Files in Verbose Format
- Setting and Displaying ACLs on ZFS Files in Compact Format

Module 8 - Advanced Topics

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

Module 9 - Troubleshooting and Data Recovery

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

REGISTRATION AND INFORMATION

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