

Solaris 10 New Features for Experienced Solaris System Administrators

(SA-225-S10, 5 days)

Course Description

The highly versatile Solaris 10 Operating System offers a great balance of new and unique features that support a wide variety of Sun's hardware. The Solaris 10 Features for Experienced System Administrators course guides you through an in-depth exploration of the robust functionality found in Sun's flagship operating system. You will be instructed in how to set up, configure, and administer some of the most distinctive Solaris features including: Solaris Zones, ZFS, NFS, DTrace, Predictive Self-Healing, Security and Operating System Installation.

Who Can Benefit

Experienced system administrators and system architects with direct experience working with the Solaris 8, Solaris 9 or Solaris 10 Operating Systems.

Prerequisites

Administer a Solaris Operating System

Skills Gained

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

- Configure and administer the new features of Solaris Zones
- Administer ZFS
- Set up and administer the new features of Predictive Self-Healing
- Explore DTrace fundamentals
- Set up and administer the Network File System (NFS) Version 4 protocol
- Explore changes to Solaris 10 installation

Suggested Next Courses:

- Sun Virtualization:Solaris 10 Logical Domains Administration (SA-345-S10)
- Solaris System Performance Management (SA-400)
- Sun Systems Fault Analysis Workshop (ST-350)
- Network Administration for the Solaris 10 Operating System (SA-300-S10)

Course Topics

Solaris Zones Configuration

- Identify the features of Solaris Zones partitioning technology
- Understand how and why zone partitioning is used
- Configure zones
- Verify zone configuration
- Export zone configuration
- Install zones

Solaris Zones Administration

- Verify zone configurations
- Install and boot zones
- Open a zone console
- Rename, move, clone, and remove zones
- Back up and restore non-global zones
- Migrate zones from one machine to another
- Administer packages in zones
- Configure resource pools

Introduction to the Solaris ZFS File System

- Describe the Solaris ZFS file system
- Create new Solaris ZFS pools and file systems
- Modify Solaris ZFS file system properties
- Mount and unmount Solaris ZFS file systems
- Destroy Solaris ZFS pools and file systems
- Work with Solaris ZFS snapshots and clones
- Use Solaris ZFS datasets with Solaris Zones

Predictive Self-Healing

- List the benefits of Predictive Self-Healing
- Determine the relationship of Fault Management Architecture (FMA) to Sun's Predictive Self-Healing capability
- Determine the relationship of Service Management Facility (SMF) to Sun's Predictive Self-Healing capability
- Explore features of the Fault Management Architecture
- Explore features of the Service Management Facility

DTrace Fundamentals

- Describe the features of Solaris Dynamic Tracing (DTrace)
- Write simple D Scripts
- List and enable probes and predicates
- Create action statements
- Explain the use of the pid, syscall, proc, sched, and io Providers
- Describe the DTrace Toolkit and one-liners

REGISTRATION AND INFORMATION

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NFS Changes

- Describe NFS enhancements
- Describe the enhancements to Network File System version 4 (NFS version 4)
- Describe NFS hardware and software requirements, dependencies, and limitations

Security Changes

- Describe the Least Privilege Model
- Examine administration tasks for Solaris OS Cryptographic Framework (SCF)
- Examine Secure by Default
- Explain the lock after retries feature in Secure By Default
- Examine new password encryption methods
- Explain password history, password constraints and password dictionary files

Solaris 10 Operating System Installation Changes

- Describe the Solaris SPARC Boot Architecture Redesign
- Describe upgrading the Solaris OS with installed non-global zones
- Configure multiple network interfaces during installation
- Describe how disk partition tables can be modified using an existing Volume Table of Contents (VTOC)
- Explore changes to the Solaris JumpStart? software and configure, enable, and troubleshoot JumpStart
- Identify the changes to Flash archives
- Identify changes to the Solaris Live Upgrade boot environment and configure, enable, and troubleshoot the Live Upgrade boot capability