

System Administration for the Solaris 10 Operating System (Part 2) (PK-SA-202A-S10)

Package Description

This product package is comprised of a five-day instructor-led class, SA-202-S10 and a 2 self-paced Web-based courses, WS-2025-S10 and WS-2035-S10. This package provides students with the necessary knowledge and skills to perform advanced tasks in the Solaris 10 OS on both Sparc and x64/x86 platforms, including network basics, managing virtual file systems and core dumps, managing storage volumes, controlling access and configure system messaging, setting up naming services, and performing installation procedures. The instructor-led class, SA-202-S10, does not describe JumpStart and Flash installation topics. These two topics are described in the Web-based courses in this package, WS-2025-S10 and WS-2035-S10. This course is taken in preparation for Part II of the Sun System Administration certification exam.

Package Components

- System Administration for the Solaris 10 Operating System Part 2 (SA-202-S10)
- Introducing Zones and ZFS (WS-2025-S10)
- Advanced Installation Procedures on x64/x86-Based Systems (WS-2035-S10)

System Administration for the Solaris 10 Operating System Part 2 (SA-202-S10)

The System Administration for the Solaris 10 Operating System, Part 2 course expands your mastery of the most advanced operating system on the planet: Solaris 10. This course provides students with hands-on experience working with more complex and integrated administration concepts, and builds upon the Part 1 course. Students will be instructed in essential system administration skills including: configuring network interfaces, managing swap configurations, crash dumps, and core files. The course also covers configuring NFS and AutoFS as well as system messaging, managing storage volumes and ZFS file systems, and setting up naming services and managing Solaris Zones. This course helps you to prepare for Part II of the Sun System Administration certification exam. LAB INFORMATION: The hands-on labs offered in this course may involve accessing equipment that resides at a location other than where the training is delivered.

Languages

English

Who Can Benefit

Students who can benefit from this course include individuals who are already familiar with core system administration tools and processes, and who have a fundamental understanding of the UNIX operating system, commands, and utilities.

Prerequisites

To succeed fully in this course, students should be able to:

- Manage files and directories
- Control the user work environment
- Archive files
- Use remote commands
- Manage file systems
- Install software
- Perform system boot procedures
- Perform user and security administration
- Manage network printers and system processes
- Perform system backups and restores

Skills Gained

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

- Describe network interface configuration
- Describe Sun Connection services
- Manage swap configurations
- Manage core dumps
- Configure NFS and AutoFS
- Manage storage volumes
- Work with ZFS
- Control access and configure system messaging
- Configure role-based access control (RBAC)
- Set up name services

Related Courses

Before:

- System Administration for the Solaris 10 Operating System Part 1 (SA-200-S10)
- UNIX Essentials Featuring the Solaris 10 Operating System (WSB-100-S10)
- UNIX Essentials Featuring the Solaris 10 Operating System (CDS-100-S10)
- System Administration for the Solaris 10 Operating System Part 1 (SA-200-S10)

After:

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

Course Content

Module 1 - Describing Interface Configuration

- Control and monitor network interfaces
- Configure Internet Protocol Version 4 (IPv4) interfaces at boot time

Module 2 - Describing the Client-Server Model

- Describe client-server processes
- Start server processes

Module 3 - Introducing Sun Connection Services

- Describe signed packages and patches
- Introduce Sun Connection
- Describe Sun Connection modes
- Using Update Manager
- Installing updates with Update Manager
- Administering patches from the command line

Module 4 - Managing Swap Configuration

- Describe virtual memory
- Configure swap space

Module 5 - Managing Crash Dumps and Core Files

- Manage crash dump behavior
- Manage core file behavior

Module 6 - Configuring NFS

- Describe the benefits of NFS
- Describe the fundamentals of the NFS distributed file system
- Manage an NFS server
- Manage an NFS client
- Enable the NFS server logging
- Manage NFS with the Solaris Management Console storage folder tools
- Troubleshoot NFS errors

Module 7 - Configuring AutoFS

- Describe the fundamentals of the AutoFS file system
- Use automount maps

Module 8 - Describing RAID and the Solaris Volume Manager Software

- Describe RAID
- Describe Solaris Volume Manager software concepts

Module 9 - Configuring Solaris Volume Manager Software

- Describe Solaris Volume Manager software concepts
- Build a RAID-0 (concatenated) volume
- Build a RAID-1 (mirror) volume for the root (/) file system

Module 10 - Configuring Role-Based Access Control (RBAC)

- Describe RBAC fundamentals
- Describe component interaction within RBAC
- Manage RBAC by using the Solaris Management Console
- Manage RBAC by using the command line

Module 11 - Configuring System Messaging

- Describe the fundamentals of the syslog function
- Configure the /etc/syslog.conf file
- Configure syslog messaging
- Use the Solaris Management Console log viewer

Module 12 - Using Name Services

- Describe the name service concept
- Describe the name service switch file /etc/nsswitch.conf
- Describe the name service cache daemon (nscd)
- Get name service information

Module 13 - Configuring Name Service Clients

- Configure a DNS client
- Configure an LDAP client

Module 14 - Configuring the Network Information Service (NIS)

- Describe NIS fundamentals
- Configure the name service switch file
- Describe NIS security
- Configure an NIS domain
- Build custom NIS maps
- Troubleshoot NIS

Module 15 - Introduction to Zones

- Identify the different zones features
- Understand how and why zone partitioning is used
- Configure zones
- Install zones
- Boot zones

Module 16 - Introduction to the ZFS File System

- Describe ZFS and its related terms
- Understand components of a storage pool
- Create and destroy storage pools
- Query storage pool status
- Create and destroy ZFS file systems
- Manage ZFS properties
- Mount and unmount ZFS file systems
- Work with snapshots and clones
- Use ZFS datasets with Solaris zones

Introducing Zones and ZFS (WS-2025-S10)

The Advanced Installation Procedures course (WS-2025-S10) teaches you the fundamentals of zones, and how to configure, install, and boot a zone. It also teaches you how to implement a simple JumpStart software server, establish JumpStart software configuration alternatives, and troubleshoot JumpStart software. In addition, it teaches you about Flash installation features, how to create a Flash archive, and how to use a Flash archive for installation.

Course Length

5-6 hours

Languages

English

Format

Tech talk

Who Can Benefit

Students who can benefit from this course are individuals who will be performing senior system administration duties and are experienced with the Solaris Operating System and familiar with the UNIX operating system. Students who take this course are typically seeking professional development and career enhancement.

Prerequisites

To succeed fully in this course, students should be able to:

- Manage files and directories
- Control the user work environment
- Archive files
- Use remote commands
- Manage file systems
- Install software
- Perform system boot procedures
- Use Service Management Facility commands
- Perform user and security administration
- Manage network printers and system processes
- Perform system backups and restores

Skills Gained

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

- Configure, install, and boot a zone
- Configure a custom JumpStart software installation
- Perform a Flash installation

Related Courses**Before:**

- System Administration for the Solaris 10 Operating System (Part 1) (CDS-200-S10)
- System Administration for the Solaris 10 Operating System Part 1 (SA-200-S10)
- System Administration for the Solaris 10 Operating System (Part 1) (WSB-200-S10)

After:

- Network Administration for the Solaris 10 Operating System (CDS-300-S10)
- Network Administration for the Solaris 10 Operating System (SA-300-S10)
- Network Administration for the Solaris 10 Operating System (WSB-300-S10)

Course Content

Module 1 - Introduction to Zones

- Identify the different zones features
- Understand how and why zone partitioning is used
- Configure zones
- Install zones
- Boot zones

Module 2 - Configuring Custom JumpStart Software

- Describe the JumpStart software
- Implement a basic JumpStart server
- Set up JumpStart software configuration alternatives
- Troubleshoot the JumpStart software process
- Configure a naming service to support JumpStart

Module 3 - Performing a Flash Installation

- Describe the Flash installation feature
- Manipulate a Flash archive
- Use a Flash archive for installation
- Describe WANboot Flash installation

Advanced Installation Procedures on x64/x86-Based Systems (WS-2035-S10)

The Advanced Installation Procedures on x64/x86-Based Systems (WS-2035-S10) course teaches you the fundamentals of zones and how to configure, install, and boot a zone on x86-based systems. It also teaches you how to implement a simple JumpStart software server, set up a PXE server and client, establish JumpStart software configuration alternatives, and troubleshoot JumpStart software. Finally, it teaches you about Flash installation features, how to create a Flash archive, and how to use a Flash archive for installation.

Course Length

5-6 hours

Languages

English

Format

Tech talk

Who Can Benefit

Students who can benefit from this course are those who will be performing senior system administration duties and are experienced with the Solaris Operating System and are familiar with the UNIX operating system. Students who take this course are typically seeking professional development and career enhancement.

Prerequisites

To succeed fully in this course, students should be able to:

- Manage files and directories
- Control the user work environment
- Archive files
- Use remote commands
- Manage file systems
- Install software
- Perform system boot procedures
- Use Service Management Facility commands
- Perform user and security administration
- Manage network printers and system processes
- Perform system backups and restores

Skills Gained

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

- Configure, install, and boot a zone on x86-based systems
- Configure a custom JumpStart software installation on x86-based systems
- Configure a PXE server and client installation on x86-based systems
- Perform a Flash installation on x86-based systems

Related Courses

Before:

- UNIX Essentials Featuring the Solaris 10 Operating System (CDS-100-S10)
- Intermediate System Administration for the Solaris 10 Operating System on x64/x86-Based Systems (CDS-201-S10)
- UNIX Essentials Featuring the Solaris 10 Operating System (SA-100-S10)
- Intermediate System Administration for the Solaris 10 Operating System on x86-Based Systems (SA-201-S10)
- UNIX Essentials Featuring the Solaris 10 Operating System (WSB-100-S10)
- Intermediate System Administration for the Solaris 10 Operating System on X64/X86-Based Systems (WSB-201-S10)

After:

- Network Administration for the Solaris 10 Operating System (CDS-300-S10)
- Network Administration for the Solaris 10 Operating System (SA-300-S10)
- Network Administration for the Solaris 10 Operating System (WSB-300-S10)

Course Content

Module 1 - Introduction to Zones

- Identify the different zones features
- Understand how and why zone partitioning is used
- Configure zones

- Install zones
- Boot zones

Module 2 - Configuring Custom JumpStart Software

- Describe the JumpStart software
- Implement a basic JumpStart server
- Set up JumpStart software configuration alternatives
- Configure DHCP server for PXE installation
- Configure PXE server and client
- Troubleshoot the JumpStart software process
- Configure a naming service to support JumpStart

Module 3 - Performing a Flash Installation

- Describe the Flash installation feature
- Manipulate a Flash archive
- Use a Flash archive for installation
- Describe WANboot Flash installation