

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

Duration: 5 Days

What you will learn

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.

Students who can benefit from this course

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

Required Prerequisites

Archive files

Control the user work environment

Install software

Manage file systems

Manage files and directories

Perform system boot procedures

Perform user and security administration

Use remote commands

Suggested Prerequisites

System Administration for the Solaris 10 OS Part 1 (SA-200-S10)

Course Objectives

Managing Swap Configuration

Managing Crash Dumps and Core Files

Configuring NFS

Configuring AutoFS

Describing RAID

Configuring Solaris Volume Manager Software
Configuring Role-Based Access Control (RBAC)
Configuring System Messaging
Using Name Services
Configuring Name Service Clients
Introduction to Zones
Introduction to LDAP
Configuring JumpStart Installation and Live Upgrade Using the Solaris 10 OS

Course Topics

Managing Swap Configuration

Configure swap space

Managing Crash Dumps and Core Files

Manage crash dump behavior

Manage core file behavior

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

Configuring AutoFS

Describe the fundamentals of the AutoFS file system

Use automount maps

Describing RAID

Describe RAID

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

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

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

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

Configuring Name Service Clients

- Configure a DNS client
- Configure an LDAP client

Introduction to Zones

- Identify the different zones features
- Understand how and why zone partitioning is used
- Install, configure, and boot zones
- Move, migrate, and delete a zone
- Administer packages with zones
- Upgrade the Solaris 10 OS with installed zones
- Use 1x Branded Zones

Introduction to LDAP

- Understand the use of LDAP as a naming service
- Describe basic LDAP concepts and terminology
- Identify the Directory Server Enterprise Edition requirements
- Identify Solaris LDAP Client requirements

Configuring JumpStart Installation Using the Solaris 10 Operating System

- Describe the JumpStart configurations
- Implement a basic JumpStart server for SPARC® and x86/x64 clients
- Describe booting x86/x64 systems using the Preboot Execution Environment (PXE)
- Set up a DHCP server to support x86/x64 JumpStart clients
- Set up JumpStart software configuration alternatives
- Set up JumpStart to create a ZFS mirrored root pool
- Troubleshoot JumpStart configurations

Performing Live Upgrade Using the Solaris 10 Operating System

- Describe the benefits of using Live Upgrade
- Describe the Solaris Live Upgrade requirements, commands, and process
- Create an alternate boot environment cloned from a running system
- Create a differential flash archive in a Live Upgrade boot environment
- Modify the state of the new boot environment
- Extend a base boot environment with a differential flash archive
- Use Live Upgrade to patch a system
- Using JumpStart to implement a Live Upgrade environment