

System Administration for the Solaris 10 Operating System Part 2

(SA-202-S10, 5 days)

New Y2010 outline

Course Description

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.

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.

Required Prerequisites:

- Manage files and directories
- Control the user work environment
- Archive files
- Use remote commands
- System Administration for the Solaris 10 OS Part 1 (SA-200-S10)

Suggested Prerequisites:

- Manage file systems
- Install software
- Perform system boot procedures
- Perform user and security administration

Skills Gained

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

- Manage swap configurations
- Manage core dumps
- Configure NFS and AutoFS
- Describe RAID
- Work with ZFS
- Control access and configure system messaging
- Configure role-based access control (RBAC)
- Set up name services
- Work with Zones
- Describe LDAP
- Perform Live Upgrade and Jumpstart 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)
- Sun Virtualization: Solaris 10 Containers Administration (SA-355-S10)

REGISTRATION AND INFORMATION

education@ecs.com.sg
www.ecs.com.sg/training

System Administration for the Solaris 10 Operating System Part 2

(SA-202-S10, 5 days)

New Y2010 outline



CERTIFICATION TRACK

UNIX ESSENTIALS
FEATURING THE
SOLARIS 10
OPERATING
SYSTEM
SA-100-S10

SYSTEM
ADMINISTRATION
FOR SOLARIS 10 OS
PART 1
SA-200-S10

TAKE EXAM
CX-310-200

SYSTEM
ADMINISTRATION
FOR SOLARIS 10 OS
PART 2
SA-202-S10

TAKE EXAM
CX-310-202

BECOME A
SUN CERTIFIED
SYSTEM ADMINISTRATOR
FOR THE
SOLARIS OS

NETWORK
ADMINISTRATION
FOR SOLARIS 10 OS
SA-300-S10

TAKE EXAM
CX-310-302

BECOME A
SUN CERTIFIED
NETWORK ADMINISTRATOR
FOR THE
SOLARIS OS

PERSONALIZING
SECURITY ON THE
SOLARIS 10 OS
SC-301-S10

TAKE EXAM
CX-310-303

BECOME A
SUN CERTIFIED
NETWORK ADMINISTRATOR
FOR THE
SOLARIS OS

EXPERT TRACK

SOLARIS 10 OS
SYSTEM
ADMINISTRATION
FOR EXPERIENCED
UNIX
ADMINISTRATORS
SIS-276-S10

SOLARIS 10
NEW FEATURES
FOR EXPERIENCED
SOLARIS SYSTEM
ADMINISTRATORS
SA-225-S10

SUN CLUSTER 3.2
ADMINISTRATION
ES-345

UPGRADE TRACK

For existing SCSA (v 9 and below)

TAKE EXAM
CX-310-203

MAKE THE
TRANSITION TO
THE SOLARIS 10 OS
SA-210-S10

Course Content

Module 1 - Managing Swap Space, Crash Dumps and Core Files

- Configure swap space
- Manage crash dump behavior
- Manage core file behavior

Module 2 - 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 3 - Configuring AutoFS

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

Module 4 - Describing RAID

- Describe RAID

Module 5 - 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 6 - 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 7 - 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

REGISTRATION AND INFORMATION

education@ecs.com.sg
www.ecs.com.sg/training

System Administration for the Solaris 10 Operating System Part 2

(SA-202-S10, 5 days)

New Y2010 outline

Module 8 - 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 9 - Configuring Name Service Clients

- Configure a DNS client
- Configure an LDAP client

Module 10 - Introduction to Zones

- Identify the different zones features
- Understand how and why zone partitioning is used
- Configure zones
- Install zones
- Boot zones
- Move a zone
- Migrate a zone
- Delete a zone
- Administer packages with zones
- Upgrade the Solaris 10 OS with installed zones
- Use 1x Branded Zones

Module 11 - 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

Module 12 - 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

Module 13 - Performing Live Upgrade Using the Solaris 10 Operating System

- Describe the benefits of using Live Upgrade
- Describe the Solaris Live Upgrade process
- Describe Solaris Live Upgrade requirements
- Identify the Solaris Live Upgrade commands
- 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

REGISTRATION AND INFORMATION

education@ecs.com.sg
www.ecs.com.sg/training