
Solaris System Administration - Part II

Duration: 5 Days Course Code: SSA2

Overview:

This Solaris System Administration training course will provide delegates with practical experience of configuring various aspects of a Oracle Solaris system up to and including Solaris version 10. This course extends the skills a delegate will have gained from attending the Solaris System Administration - Part 1 course.

Target Audience:

This Solaris System Administration - Part II course is aimed at IT staff responsible for administering a networked server in a local area network, running the Oracle Solaris operating environment. It will extend their skills beyond basic administration tasks.

Objectives:

- Configuring and Managing DNS
 - Configuring and Managing NIS
 - Control of remote File Systems with NFS and Auto mount
 - Managing Disk Space in the Solaris Volume Management environment using the Solaris Management Console and standard commands
 - Managing swap space
 - Setting up the JumpStart facility to automate installation
 - Installing a system with a Flash Archive
 - Live Upgrade
 - Managing the System and Program Dump file environment
 - Managing system event logging with syslog
 - Allocating system tasks to users using Role Based Access Control (RBAC)
 - Configuring and accessing Zones
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Prerequisites:

- SI, Solaris Introduction
- SSPR, Solaris Shell Programming
- SSA1, Solaris System Administration - Part I

Testing and Certification

- Delegates will cover more specialised tasks such as managing the system log and configuring remote file sharing with NFS whilst gaining the key skills required to prepare for the Oracle Solaris 10 System Administrator Certified Professional Part II exam (1Z0-878).
 - Together with the Solaris Administration - Part I course, this course is also suitable preparation for delegates intending to sit the Oracle Solaris 10 System Administrator Certified Professional Upgrade exam (1Z0-879).
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Follow-on-Courses:

- SASP, Solaris Advanced Shell Programming Tools
 - OSP, Oracle SQL
 - APH, Apache Web Server
 - ORO, Oracle Overview Seminar
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Content:

Session 1: NAMING SERVICES

- DNS Overview
- DNS Server and Client Setup
- NIS
- NIS Servers and Clients
- Setting up NIS Servers and Clients
- NIS+ Overview
- LDAP Overview and Setting up an LDAP Client
- The Name Service Switch Configuration Files
- Template nsswitch Files
- Displaying Information From the Name Server
- Name Service Cache Daemon
- Reference for Naming Services

Session 2: NFS/CACHE FS

- Network File System (NFS)
- NFS Terminology
- NFS Server
- NFS Client
- NFS Server Configuration
- /etc/dfs/dfstab File
- NFS Server Configuration - SMC
- Other NFS Commands
- NFS Client Configuration
- The mount Command
- Mounting a Local Resource
- Mounting a Remote Resource
- Responding to server failure - mount options
- Multiple Hosts
- Unmounting a Resource
- NFS Client Configuration - SMC
- Troubleshooting NFS
- Cache File System (Cachefs)
- Cachefs Terminology
- Creating a Cache File System
- Cachefs Statistics and Consistency
- Cachefs Logging
- Removing Cache File System
- NFS Logging - user access

Session 3: AUTOMOUNT

- Automount Utility
- Automount Maps
- Registering Changes for Automount
- automount -v

Session 4: SOLARIS VOLUME MANAGER (SVM)

- Disk Management and File System Review
- RAID Technology and Volumes
- RAID Modes
- SVM Tools
- Volume Management Operations
- State Database Replicas
- Creating State Database Replicas
- Creating a Disk Concatenation
- SVM Commands and Files

Session 5: MANAGING SWAP SPACE

- Swap Space
- Configuring Swap Space
- Adding a Swap File on an Existing File System
- Disabling Swap Space

Session 6: JUMPSTART

- Interactive Installation Review
- Automatic Installation
- Principles of JumpStart
- Server Setup for JumpStart
- Configuring NIS to Support JumpStart
- Locale
- Ethernet Address
- IP Address and Hostname
- TimeZone
- Netmasks
- Bootparams
- Timehost Alias
- Configuring Non NIS Server for JumpStart
- Configuration Directory
- Rules File
- Class File
- Check Utility
- Install/Boot Server Installation
- setup_install_server Utility
- add_install_client Utility
- Setting up DHCP for Intel clients
- Overview of WAN Boot Installation
- Installing a new Client
- Jumpstart troubleshooting

Session 7: MANAGING FLASH ARCHIVES

- Flash Archive Definition
- Creating a Flash Archive
- Restoring a Flash Archive
- Specifying the Location of the Flash Archive to be Restored
- Jumpstart Installation Considerations
- Displaying Flash Archive Information

Session 8: LIVE UPGRADE OVERVIEW

- Live Upgrade description
- Basic procedures
- lucreate and luupdate commands
- Live Upgrade Example

Session 9: DUMP FILE CONFIGURATION

- Dump File Definition
- System Crash Dumps
- Displaying the System Crash Dump Configuration
- Modifying the System Crash Dump Configuration
- Core Dumps
- Displaying the Core Dump Configuration
- Modifying the Core Dump Configuration

Session 10: SYSLOG

- syslog Configuration
- The /etc/syslog.conf Configuration File
- Facility
- Security Level
- Action
- The M4 Utility
- Editing the syslog.conf File
- Logging Telnet, FTP and other Networking Daemon
- The SMC Log Viewer
- Testing syslogd Logging

Session 11: ROLE-BASED ACCESS CONTROL (RBAC)

- Traditional Unix Security vs RBAC
- The RBAC Security Model
- Main Attributes and Associated Files
- Linking Attributes and their Files together
- Attribute File Formats
- Configuring RBAC Examples
- Using SMC in the RBAC Environment

Session 12: ZONES

- Basic Description
- Main Features and Benefits
- Zone Configuration Settings and Characteristics
- Creating Zones
- User Access to Zones
- Managing the Zone State
- Zone System Processes

- Creating State Database Replicas - the metadb command
 - metadevices
 - metstat command
 - Creating a Concatenation of two disk slices
 - Creating and Managing Mirrors
 - Creating File Systems on Volumes
 - Deleting a Metadevice
 - Dynamically Growing Existing File Systems
 - Mirroring Volumes and backup of Mirrors
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Further Information:

For More information, or to book your course, please call us on Head Office 01189 123456 / Northern Office 0113 242 5931

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