

Course Catalog
2012-2013



SUN SOLARIS



CSLIT

.....Connecting Technology

System & Network Administration using Sun Solaris 10

System & Network Administration using Sun Solaris will cover all aspects of SA1, SA2 certification and the basics of UNIX in detail. At the end of the course delegates will have the skills required to administer a Solaris System. System & Network Administration using Sun Solaris 10 course will also cover Internet application server configuration on live registered domain names with valid public IP addresses.

Course Objectives

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

- Install a Solaris 10 Server
- Navigate through the UNIX file system.
- Add startup files for customized services.
- Install and remove software packages.
- Perform user and security administration
- Perform network configuration and troubleshooting
- Perform Solaris based network services

Who Should Attend

This course is for those Solaris users who are tasked with System & Network Administration responsibilities or anybody who wishes to gain an in depth practical knowledge of Solaris System Administration.

Prerequisite

Fundamental knowledge of network technologies including
Operating system, File system, Windows Networking

Course Duration

60 hours, Total 20 classes, 3hours per class

Course Details

Lesson 01: Introduction to UNIX

- History of Unix
Basic Concepts of Operating Systems,
- Kernel, shell and file system structure
- Basic Concepts of Unix
- Basic Commands of Unix
- Advanced Unix Commands

Lesson 02: Installation of Solaris

- Introduction to Solaris
- Basic concepts of Solaris
- Interactive Installation
- Web-start Installation
- Network based Installation

Lesson 03: Software package, patch administration

- Installing, checking, deleting software packages
- Installing, checking and deleting of patches

Lesson 04: Startup and Shutdown scripts

- Open Boot Prom
- Boot Sequence
- Kernel Initialization
- Init Process
- Run Control Script

Lesson 05: User and group administration

- Creating and deleting users from the system
- Modifying users profile
- Creating and deleting groups
- Important system files related to user administration

Lesson 06: Advanced file permissions (ACL)

- Creating, modifying and deleting ACL's

Lesson 07: Automation of jobs

- At
- Crond

Lesson 08: Device Configuration

- Basic architecture of devices
- Device Naming convention
- Reconfiguring devices

Lesson 09: Disk, Slice and Mounting File System

- Defining disk slices
- Mounting various file systems(hsfs, pcfs, ufs)
- Automatic mounting of file system

Course Details

Lesson 10: Quotas

- Creating Quotas for users
- Auditing quotas

Lesson 11: Backup and recovery

- Introduction to various types of backup media
- Backing up and restoring data using ufsdump and ufsrestore commands
- Backing up and restoring data using tar and cpio commands

Lesson 12: Printer Configuration

- Printing basics
- Configuring local printer
- Configuring print server
- Configuring remote printer

Lesson 13: Oracle Installation

- Install Oracle 10g in Solaris

Lesson 14: Network based File systems (NFS, CacheFS, AutoFS)

- Basics of Network based file systems
- Configuring NFS servers for sharing resources
- Configuring NFS clients
- Configuring Cache FS on clients of NFS
- Configuring AutoFS (Automatic file systems), using direct and indirect mapping

Lesson 15: Custom Jumpstart Installation

- Creating profile for jumpstart installation over the network
- Starting the automatic (jumpstart) installation on the client

Lesson 16: Dynamic Host Configuration Protocol (DHCP)

- Configuring Solaris as DHCP server
- Configuring various clients for dhcp server, i.e. Windows client, Solaris clients, Linux clients

Lesson 17: Network Information Service (NIS)

- Basics of NIS
- Configuring NIS master server, slave server and client
- Creating NIS users

Lesson 18: DNS with Bind 8

- Basis of Internet
- Basic of DNS and BIND8
- Configuring DNS primary server, and secondary servers
- Configuring DNS for multiple domains and sub domains
- Configuring various clients (Windows, Solaris, Linux)

Lesson 19: Mail Server (SMTP, POP3, IMAP)

- Basics of Mail servers
- Configuring SMTP services
- Configuring POP3/IMAP service on Solaris

Course Details

Lesson 20: Web Server (Apache)

- Basic of web service
- Introduction of Apache
- Configuring Apache for main site
- Configuring Apache for multiple sites using IP-based, port-based and name-based virtual hosting

Lesson 21: FTP server (ProFTP daemon)

- Basics of File Transfer protocol
- Configuring proftpd for anonymous ftp service

Lesson 22: Proxy Server (Squid)

- Basics of proxy service
- Configuring proxy service
- Creating ACL's for controlling access to internet
- Configuring various clients (Windows, Solaris, Linux)

Lesson 23: Samba service

- Basics of file sharing in Windows
- Configuring samba to act as PDC for Windows Network
- Configuring samba service for file sharing with windows systems

Lesson 24: RAID (Redundant Array of Inexpensive Disks)

- Implementing RAID with ODS.(Online Disk Suite 4.2.1)
- Concatenation and growfs
- RAID levels (0, 1, and 5) with hotspare pool

Lesson 25: Web Based Administration

- Installing Webmin on Solaris
- Administrating the Solaris machine remotely
- Using Webmin as Tool for configuring various services on Solaris purpose

