

# NETWORKING – SOLARIS COURSE CONTENT

Solaris 8 System Administrator

## **Installation, Initialization, and Shutdown**

- The Boot Process and Boot PROM
- User and Software Package Administration
- System Security and Remote Connection
- Process Control
- File Systems, Files, and Directories
- Disk Configuration
- Backup and Recovery
- vi Editor and Command Syntax
- LP Print Service
- Practice Exam

Lesson Detail:

## **Installation, Initialization, and Shutdown**

- Selected system administrator terms
- Requirements and preparation for installation
- Software and configuration clusters
- System configuration to be installed
- Disk storage systems
- Device drivers
- Installing the Solaris 8 software
- Power on and booting the system
- System run states
- Init phase
- Stopping and starting services with control scripts
- System shutdown

The Boot Process and Boot PROM

- OpenBoot environment
- OpenBoot architecture
- OpenBoot interface

- PROM full device names
- OpenBoot device aliases
- OpenBoot non-volatile RAM (NVRAM)
- OpenBoot security
- OpenBoot diagnostics
- Input and output control
- boot
- Kernel

#### User and Software Package Administration

- Adding user accounts with Admintool
- Managing user accounts with Admintool
- Managing users from the command line
- User initialization files
- Home directories and name services
- Managing software
- Listing and spooling software packages
- Adding and removing software
- Software patches

#### System Security and Remote Connection

- Physical security
- Controlling system access
- Storing user account information
- Controlling file access
- Permission schemes for user and group IDs
- Access Control Lists (ACLs)
- Managing ACL entries
- Setting path and identification permission
- Monitoring users and system usage
- Obtaining login information
- Using firewalls and securing network services
- Other network security methods
- Remote system operations and the trusted host
- Restricting FTP

- Restricting root access
- Monitoring superuser access
- Automated Security Enhancement Tool (ASET)

#### Process Control

- Viewing a process
- The pgrep and prstat commands
- Process Manager
- Using signals
- Scheduling processes
- The crontab command
- The at command
- syslog and other logs

#### File Systems, Files, and Directories

- A file system defined
- Solaris file system types
- Disk slices
- Creating slices with the format utility
- Parts of a UFS file system
- Creating a UFS file system
- Custom file system parameters
- File system operations
- Mounting file systems
- Displaying mounted file systems
- Constructing a file system
- Tuning file systems
- Options for mounting a file system
- Unmounting a file system
- Volume Manager
- Modifying devices with the Volume Manager
- Troubleshooting media devices
- Information on file systems

#### Disk Configuration

- Device drivers
- Physical device names

- Device auto-configuration
- Instance names
- Transparent configurations
- Major and minor device numbers
- Logical device names
- Virtual volume management
- Metadevices and drivers
- StorEdge Volume Manager

#### Backup and Recovery

- Backup media and utilities
- The tar command
- The dd command
- The cpio command
- The pax command
- The ufsdump command
- The ufsrestore command
- Recovering file systems

#### Vi Editor and Command Syntax

- Shell script basics
- Selecting a shell to use
- Bourne shell variables
- Bourne shell built-ins and conditionals
- The if and case conditionals
- Repeated-action commands and functions

#### LP Print Service

- The Solaris LP print service
- The print spooler and LP daemons
- Printer hardware
- Printer software
- Print servers
- Creating printer classes
- Managing printers with GUI tools
- Routine printer tasks
- Checking printer status

- Managing user access to printers
- Managing printer queues

Practice Exam Syntax

- System concepts
- The boot PROM
- Installation
- Initialization and shutdown
- User administration
- Security
- Process control
- File systems
- Files and directories
- The boot process
- Disk configuration
- Backup and recovery
- Basic command syntax