

# Sysadmin Academy

## Certified Solaris Administrator - I

### Course Syllabus

#### Introduction to Solaris Administration

- The Role of the System Administrator
- Hardware Responsibilities
- Software Responsibilities
- Responsibilities to the Users

#### Boot PROM

- Boot PROM fundamentals
- Boot PROM commands
- Identifying system Boot device
- Creating Custom device aliases
- Viewing changing NVRAM parameters.

#### Installing Solaris Operating System

- Planning disk Layout
- Different modes of installation
- Install Solaris from CD/DVD
- Selecting software options
- Post Installation procedures
- Upgrading Solaris

#### Shutdown and Reboot

- Service Management Facility
- Identifying boot process
- System Boot Process Overview
- Autoboot versus Manual Boot
- Initiating the Boot Sequence
- Interacting with the BootPROM
  - Run Levels
- Changing Run Levels with init
- Configuring init via /etc/inittab

#### Solaris File system Hierarchy

- Introducing the File System Paradigm
- The File System Layout
- Identifying file types
- Using Hard Links

#### Controlling System Processes

- Viewing System Processes
- Killing Frozen Process
- PRSTAT
- SMC process tool

#### Scheduling cron Jobs

- The cron Daemon
- cron file
- Managing cronfile with crontab
- What Happens When a Job is Scheduled?

#### Creating and Managing User Accounts

- Users & Groups - Access to System and Data
- The /etc/passwd File
- The /etc/group File
- Creating User Accounts using tools.
- Managing User Accounts from the Command Line
- The /etc/skel Directory
- Customizing User Accounts

#### Managing Package Administration

- Package admin fundamentals
- Adding packages
- Checking Packages
- Removing Packages
- Streaming one or more packages
- Displaying information about installed packages.

#### Patch Management

- Patch Naming Conventions
- Installing Patches
- Checking patch levels
- Obtaining Patches
- Installing Patches with smpatch utility
- Listing Patches
- Removing Patches

#### Managing Local Disk Devices

- Basic Disk Architecture
- Solaris Device naming convention
- Listing system devices
- Reconfiguring Devices
- Partitioning the Hard disk
- Managing the disk labels.

#### Managing Solaris OS File System

- Introducing Solaris OS File Systems.
- Creating a New UFS File System.
- Checking File system by FSCK.
- Resolving File system Inconsistencies.
- Monitoring File system use.

#### Performing Mounts and Umounts

- Working with mounting basics.
- Performing Mounts.
- Performing Umounts.
- Accessing Mounted Disk, CD-ROM.

#### Managing Swap Space

- System Memory
- Enabling Swap via /etc/fstab
- Monitoring Swap Space Usage

#### Performing System Security

- Monitoring System Access
- Switching users on a system
- Controlling system access
- Restricting access to data in files.

#### Configuring and using Printer Services

- Introducing Network Printing Fundamentals.
- Configuring Printing services.
- Administering printing services.

#### Performing file system backups & Restores

- Introducing Fundamentals of Backup.
- Backup of unmounted File system.
- Restoring a UFS Filesystem

#### Backing up mounted Filesystem with UFS Snapshot.

- Creating UFS snapshot -FSSNAP.
- Backing up the UFS Snapshot file.

#### Networking Basics.

- Introduction to Networking.
- Configuring Interfaces.
- DNS client configuration.
- Routing.