

Oracle Solaris Administration Course – Both Part1 and Part2 Syllabus

Introduction to Solaris Administration

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

Installing Solaris Operating System

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

Solaris File system Hierarchy

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

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 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

Boot PROM

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

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

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

Performing System Security

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

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Controlling System Processes

- Viewing System Processes
- Killing Frozen Process
- PRSTAT
- The cron Daemon
- cron file
- Managing cronfile with crontab
- What Happens When a Job is Scheduled

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 File system with UFS Snapshot.

- Creating UFS snapshot -FSSNAP.
 - Backing up the UFS Snapshot file.
- ### Describing Interface Configuration
- Control and monitor network interfaces
 - Configure Internet Protocol Version 4 (IPv4) interfaces at boot time
 - Changing hostnames
 - IPMP configuration
 - DNS Client side configuration

Describing the Client-Server Model

- Describe client-server processes
- Start server processes

Managing Swap Space

- System Memory
- Describe virtual memory
- Configure swap space
- Enabling Swap via /etc/vfstab
- Monitoring Swap Space Usage

Managing Crash Dumps and Core Files

- Managing Crash Dump Behavior
- Changing the Crash Dump Configuration
- Managing Core File Behavior
- Changing the Core File Configuration
- 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

Configuring AutoFS

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

Describing RAID and the Solaris Volume Manager Software

- Describe RAID
- Describe Solaris Volume Manager software concepts
- Describe Solaris Volume Manager software concepts
- Build a RAID-0 (concatenated/Stripe) volume
- Build a RAID-1 (mirror) volume for the root (/) file system
- Build a RAID-5 Volume
- Increasing the File system space
- Soft partitioning

Configuring Role-Based Access Control

- Describe RBAC fundamentals
- Describe component interaction within RBAC
- Manage RBAC by using the command line

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

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

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Configuring the Network Information Service

- Describe NIS fundamentals
- Configure the name service switch file
- Describe NIS security
- Configure an NIS domain
- Build custom NIS maps
- Troubleshoot NIS

Introduction to Zones

- Identify the different zones features
- Understand how and why zone partitioning is used
- Configure zones
- Install zones
- Boot zones
- Moving Zones
- Migrating Zones

Introduction to the ZFS File systems

- Describe the Solaris ZFS file systems
- Create a ZFS pools and file systems
- Modify ZFS file system properties
- Mount and unmount ZFS file system
- Destroy ZFS pools and file systems
- Work with ZFS snapshots and Clones
- Use of ZFS datasets with Solaris zones

Describing the Custom JumpStart

Configurations

- Describe the JumpStart configurations
- Implement a basic JumpStart server
- Set up JumpStart software configuration alternatives
- Troubleshoot the JumpStart configurations
- Configure a naming service to support JumpStart