

# Pragathi Technologies

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## SUN-SOLARIS-10(SA-1) System Administration Paper 1

Pre-Requisites: BASIC UNIX COMMANDS

### **SYSTEM CONCEPTS:**

- Understanding different hosts in Solaris Environment
- Understanding types of servers and clients in Solaris Environment

### **ADMINISTRATION AND CONFIGURATION OF CDE:**

- Understanding CDE environment on Sun-Solaris
- Installation of Sun-Solaris on SPARC and INTEL
- Installation on standalone
- Network installation

### **FILE SYSTEM:**

- Introduction to file system
- Understanding different types of file systems
- Creating a file system using format command
- Converting the file system to UFS using newfs
- Mounting and un-mounting file systems
- Understanding vfstab and mnttab files
- Inconsistency checking using fsck
- Troubleshooting file systems with fsck

### **USER ADMINISTRATION:**

- Understanding types of groups
- Creating groups, modifying and deleting
- Creating users, modifying and deleting
- Administration of initialization files and customizing

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- Monitoring of users
- Understanding password aging
- Advance file permissions using ACL
- RBAC with RBAC and administer can assign privileged functions to specific user accounts
- System security
- Troubleshooting

## **BOOT PROCESS:**

- Understanding booting process on SPARC & INTEL
- Understanding commands under OK prompt

## **RUN LEVELS:**

- Understanding different types of run levels
- Understanding default run level and customizing
- Understanding R-C scripts
- Adding and modifying run control scripts ( R-C scripts )
- Understanding different types of shutdown commands
- Changing the init phases
- Troubleshooting

## **VOLUME MANAGEMENT:**

- Understanding different types of file systems like UFS, PCFS, NFS, HSFS, CACHEFS, AUTOFS, UDFS, LOFS
- Mounting and un-mounting CD's
- Troubleshooting

## **BACKUP&RECOVERY:**

- Understanding types of backups

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- Understanding various file backups using tar, cpio, dd
- Creation of snap shot for backups
- Understanding backup levels and backup strategies
- Understanding file system backups using ufsdump, ufsrestore
- Performing full / incremental / cumulative backups
- Performing local / remote backup restore

## **SCHEDULE JOBS:**

- At jobs
- Cron jobs

## **DISK QUOTAS:**

Creating quotas for users by allocating disk space for user home directory

## **SWAP MANAGEMENT:**

- Adding internal and external swap areas
- Creating static and dynamic swap swap areas

## **PROCESS CONTROL:**

- Understanding standalone daemons and transient daemons

## **PACKAGE ADMINISTRATION:**

- Adding the packages, verifying the packages and checking the packages, pkgadd , pkgrm, pkginfo, pkgchk, pkgparam, spooling commands.