# NELKINDA SOFTWARE CRAFT

#### 🞓 TRAINING

## Linux System Usage

Duration: 5 Days
Available Languages: English

#### Audience

Software Developers, System Administrators, Power Users.

#### <u>Goals</u>

Know how to get most out of a Linux system.

### <u>Contents</u>

- History and Relevance of Linux
- Comparison of major Linux distributions (Debian, Raspbian, Knoppix, Ubuntu, Gentoo, Chromium OS / ChromeOS, Red Hat / RHEL, Fedora, CentOS, Scientific Linux, Fermi Linux, Oracle Linux, OpenSUSE, SLES, ArchLinux, Android, CyanogenMod)
- Comparison of Linux with other UNIX operating systems (Solaris, IRIX, Mac OS X, BSD)
- Comparison of major Linux Desktops (KDE, Gnome, Unity, Xfce)
- Licensing of Linux (GPL, LGPL, BSD, CC etc.)
- Shell 1×1: Basic Shell Usage (Commands, Arguments, Options, Subcommands); Shell vs Terminal; Launching Commands
- File System Structure
  - # The trees under /, /usr/ and /usr/local/
  - # Unique directories /boot/, /dev/, /etc/, /home/, /opt/, /proc/, /root/, /var/
  - # Duplicate directories bin/, include/, lib/, sbin/, share/, src/
  - # procfs and sysfs
- File System Navigation Commands pwd, cd, ls, touch, mkdir, rmdir, rm, cp, file, rsync
- File Commands cat, tee, tac, head, tail, more, less, grep
- Basic Usage of sed and awk
- Processes, Pipes and Redirection
  - # Job Control
  - # fork() and exec() from a user perspective
  - # ps, pstree, top, kill
  - # mkfifo, stdin, stdout, stderr, Pipes, set -e, set -o pipefail
- File Systems, Mounting and Devices
  - # Block devices, Character devices
  - # mount, umount, eject, /etc/fstab, /etc/mtab
  - # Partitioning, fdisk, parted
  - # Loop Devices
  - # ext2, ext3, ext4, xfs, jfs, btrfs and other significant file systems
- File Permissions and File Security
  - # read/write/execute; setuid, setgid, sticky; chmod, chown; umask
  - # ACLs, setfacl, getfacl

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#### F TRAINING

- # User and Account Management, /etc/passwd, /etc/group, /etc/shadow, /etc/ gshadow
- Package Management rpm, dpkg, apt / aptitude, pacman
- Archives and Compression tar, gzip, bzip2, zip, jar
- Networking Overview: Samba, NFS/NIS, LDAP
- Virtualization Overview: chroot, LXC, LXD, Docker

### Booking

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