Friday, 13, September, 2019
Directory Structure in Unix/Linux
/ - root directory
The root directory. Where everything begins.
/bin
Contains binaries (programs) that must be present for the
system to boot and run.
ex. ls, cp, login, bash
/boot
Contains the Linux kernel, initial RAM disk image (fordrivers needed
Contains the Linux Kerner, initial NAM disk image (fordiffers needed
at boot time), and the boot loader.
Interesting files:
/boot/grub/grub.conf or menu.lst, which are used to configure the boot loader.
/boot/vmlinuz, the linux kernel
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/dev
This is a special directory which contains device nodes.
"Everything is a file" also applies to devices. Here is where the kernel
maintains a list of all the devices it understands.
loto
/etc
The /etc directory contains all of the system-wideconfiguration files.
It also contains a collection of shell scripts which start each of the
system services at boot time.
Everything in this directory should be readable text.

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Interesting files: While everything in /etc is interesting,
here are some of files that needs special attention:
/etc/crontab, a file that defines when
automated jobs will run.
etc/fstab, a table of storage devices and their
associated mount points.
/etc/passwd, a list of the user accounts and encrypted/shadow password
/home
In normal configurations, each user is given a directory in /home
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/lib
Contains about dilbus wifter word by the same systems
Contains shared library files used by the core system programs
/lost+found
Each formatted partition or dovice using a Linux file system such as ext2
Each formatted partition or device using a Linux file system, such as ext3, will have this directory. It is used in the case of a partial recovery from a
file system corruption event. Unless something really bad has
happened to your system, this directory will remain empty.
/media
On modern Linux systems the /media directory will contain the mount
points for removable media such USB drives, CD-ROMs, etc.
that are mounted automatically at insertion.
/mnt

On older Linux systems, the /mnt directory contains mount points for removable devices that have been mounted manually.

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/opt
The /opt directory is used to install "optional" software. This is mainly used to hold commercial/third party software products that may be installed on
your system.
/proc
The /proc directory is special. It's not a real file system in the sense
of files stored on your hard drive. Rather, it is a virtual file system
maintained by the Linux kernel. The "files" it contains are peepholes
into the kernel itself. The files are readable and will give you a picture of how the kernel sees your computer.
of now the kerner sees your computer.
/root
This is the home directory for the root account.
This is the nome directory for the root decount.
/sbin
This directory contains "system" binaries. These are programs that
perform vital system tasks that are generally reserved for the superuser.
/tmp
The /tmp directory is intended for storage of temperary transient files
The /tmp directory is intended for storage of temporary,transient files created by various programs. Some configurations cause this directory
to be emptied each time the system is rebooted.
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-/usr
The /usr directory tree is likely the largest one on a Linux system.
It contains all the programs and support files used by regular users.

/usr/bin
/usr/bin contains the executable programs installed by
the Linux distribution. It is not uncommon for this directory to hold
thousands of programs.
/usr/lib
/usi/iib
The shared libraries for the programs in /usr/bin.
/usr/local
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The /usr/local tree is where programs that are not included with your
distribution but are intended for system-wide use are installed. Programs compiled from source code are normally installed in /usr/local/bin.
On a newly installed Linux system, this tree exists, but it will be empty
until the system administrator puts something in it.
/usr/sbin
Contains more system administration programs.
/usr/share
/usr/share contains all the shared data used by
programs in /usr/bin. This includes things like default
configuration files, icons, screen backgrounds, sound files, etc.
/usr/share/doc
Most packages installed on the system will include some kind of
documentation. In /usr/share/doc, we will find documentation files
organized by package.

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/var
With the exception of /tmp and /home, the directories we have looked at
so far remain relatively static, that is, their contents don't change. The /var directory tree is where data that is likely to change is stored.
Various databases, spool files, user mail, etc. are located here.
/var/log
/var/log contains log files, records of various system activity.
These are very important and should be monitored from time to time.
The most useful one is /var/log/messages. Note that for security reasons on some systems, you must be the superuser
to view log files .
Symlink -
It's a feature that allows linking to a physical directory or file
Why There is an need of Symlink/Symbolic Link?
There are a lot of complex directories in the file system of Linux, right?
Remembering all of them can be a real hassle.
Moreover, when you want to work with a file/directory that's deep
Troncover, when you want to work with a me, an ectory that's deep
within directories and sub-directories, the file path length becomes longer.
Creating Symlink #In utility
#soft link - the link destroyed after the reboot of the host machine
In -s <source_file_directory> <link_file_directory></link_file_directory></source_file_directory>
#hard Link - Link is created permanent (remove -s argument)
In <source_file_directory> <link_file_directory></link_file_directory></source_file_directory>
Note : ensure the absoulute/concrete path