Linux Directory Structure

The Filesystem Hierarchy

What You Will Learn

Linux directory structure.

Location of operating system components.

Application directory structures.

Why?

- Increases your overall knowledge of Linux.
- Aids in navigation.
- Saves you time.
- Improves your troubleshooting skills.
- Makes you a better user and administrator.
- Enhances your overall experience of using Linux.

Common Directories

/ "Root," the top of the file system hierarchy.

/bin Binaries and other executable programs.

/etc System configuration files.

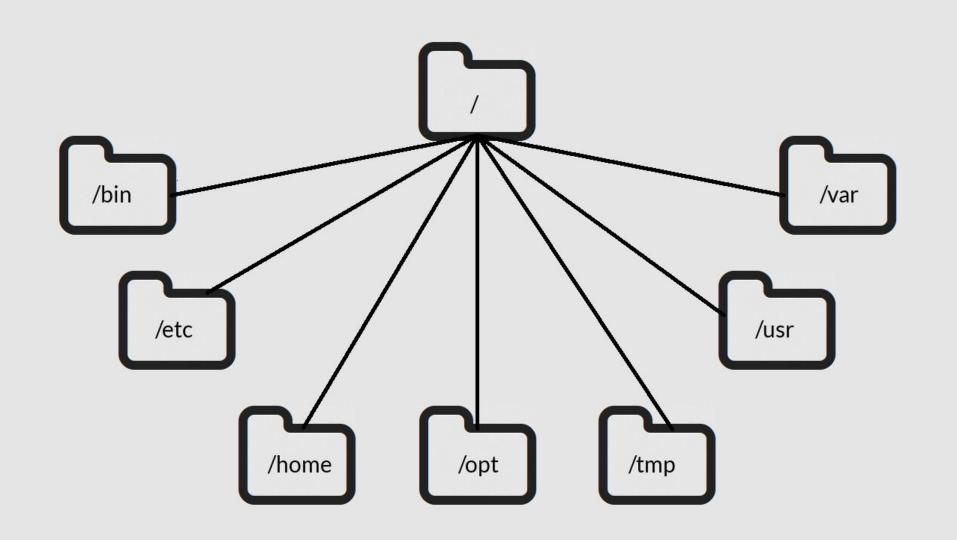
/home Home directories.

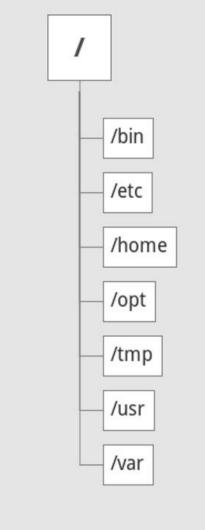
opt Optional or third party software.

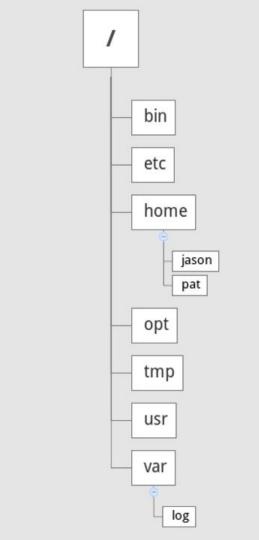
/tmp Temporary space, typically cleared on reboot.

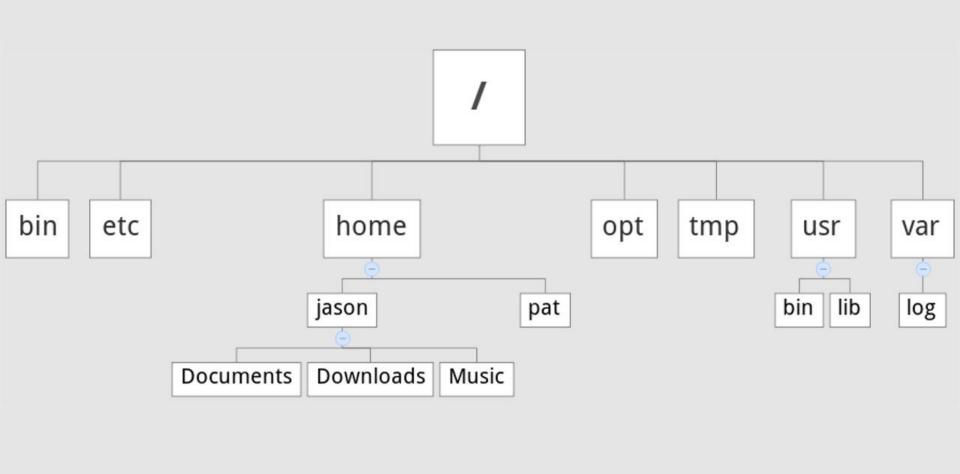
/usr User related programs.

/var Variable data, most notably log files.









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"Root," the top of the file system hierarchy.
        Binaries and other executable programs.
/bin
/boot Files needed to boot the operating system.
/cgroup Control Groups hierarchy.
        Device files, typically controlled by the operating
/dev
      system and the system administrators.
        System configuration files.
/etc
```

/export Shared file systems.

/home Home directories.

/lib System Libraries.

/lib64 System Libraries, 64 bit.

/lost+found Used by the file system to store recovered

files after a file system check.

/media Used to mount removable media

(CD-ROMs, USBs)

/mnt Used to mount external file systems.

opt Optional or third party software.

/proc Provides info about running processes.

/rootThe home directory for the root account.

/sbin System administration binaries.

/selinux Used to display information about SELinux.

/srv Contains data which is served by the system.

/srv/www Web server files.

/srv/ftp FTP files.

/sys Used to display and sometimes configure the devices known to the Linux kernel.

/tmp Temporary space, typically cleared on reboot.

/usr User related programs, libraries, and docs.

/usr/bin Binaries and other executable programs.

/usr/lib Libraries.

/usr/local Locally installed software that is not part of

the base operating system.

/usr/sbin System administration binaries.

/var Variable data, most notably log files.

/var/log Log files.

/usr/local/crashplan/bin

/usr/local/crashplan/etc

/usr/local/crashplan/lib

/usr/local/crashplan/log

/opt/avg/bin

/opt/avg/etc

/opt/avg/lib

/opt/avg/log

/etc/opt/myapp

/opt/myapp/bin

/opt/myapp/lib

/var/opt/myapp

/usr/local/bin/myapp

/usr/local/etc/myapp.conf

/usr/local/lib/libmyspp.so

/opt/acme

/opt/acme/bin

/opt/acme/etc

/opt/google

/opt/google/chrome

/opt/google/earth

/opt/web-team

/opt/acme/web-team

/usr/local/acme/web-team

Summary

The most common directories to know are:

```
/bin
/etc
/home
/opt
/tmp
/usr
/var
```

Summary

Applications that are not part of the base OS can be installed in:

/usr/local

/opt