Introduction to Linux

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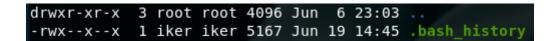
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1 Locate

If you want to locate a file you can use the **locate** command. If you do not find something, you can try running **updatedb**, because is has to build a database of the information that it's finding in order to locate what you're searching for.

2 Permissions

For the first letter of ls -la, if we have a - that is a file, if we have a d that is a directory.



Number	Permissions	
0	No permissions	
1	Execute	
2	Write	
3	Write, Execute	
4	Read	
5	Read, Execute	
6	Read, Write	
7	Read, Write, Execute	

User	Group	Others
x	x	x
- w -	- w -	- w -
- w x	- w x	- w x
r	r	r
r - x	r - x	r - x
r w -	r w -	r w -
r w x	r w x	r w x

3 The System

3.1 Color Coded

- Blue: Directory.
- Green: Executable or recognized data file.
- Sky Blue: Symbolic link file.
- Yellow with black background: Device
- Pink: Graphic image file.
- Red: Archive file.
- Red with black background: Broken link.

3.2 The Filesystem Hierarchy Standard (FHS)

- /bin: Essential user command binaries.
- /etc: Configuration files for the system.
- /sbin: Essential system binaries.
- /usr: Read-only user application support data & binaries.
 - /usr/bin: Most user commands.
 - /usr/include: Standard include files for C code.
 - /usr/lib: Obj, bin, lib files for coding and packages.
 - /usr/local: Local software (./bin ./lib ./man ./sbin ./share).
 - /usr/share: Static data shareable across all architectures.
 - * /usr/share/man: Manual pages.
- /var: Variable data files.
 - /var/cache: Application cache data.
 - /var/lib: Data modifies as programmes run.
 - /var/lock: Lock files to track resources in use.
 - /var/log: Log files.
 - /var/opt: Variable data for installed packages.
 - /var/spool: Tasks waiting to be processed:
 - * /var/spool/cron
 - * /var/spool/cups
 - * /var/spool/mail
 - /var/tmp: Temporary files saved between reboots.
- /dev: Device files included /dev/null.
- **/home**: User home directories.
- /lib: Libraries & kernel modules.
- /mnt: Mount files for temporary filesystems.
- **/opt**: Optional software applications.
- /proc: Process & kernel information files.
- /root: Home directory for the root user.