Linux Source Tree (1)
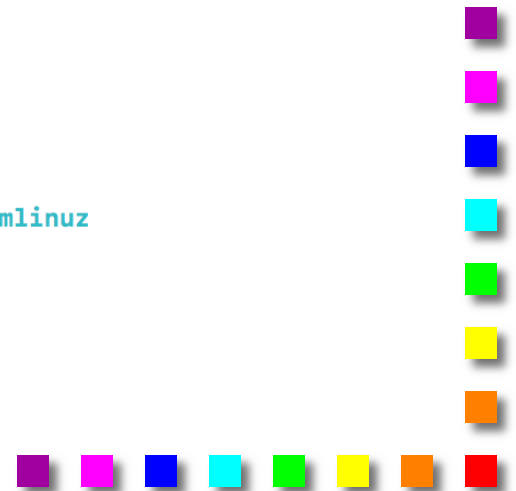
- 所有的目录都放在目录下："/"
- **root** - The home directory for the root user
- **home** - Contains the user's home directories along with directories for services
  - ftp
  - HTTP
  - samba

```
quan@quan-ubuntu:/$ ls
bin    cdrom   etc    initrd.img   lib64          media   opt    root   sbin   sys   usr   vmlinuz
boot   dev     home   lib          lost+found     mnt     proc   run    srv    tmp   var
```

Linux Source Tree (2)

- **bin** - Commands needed during booting up that might be needed by normal users

- **sbin** - Like bin but commands are not intended for normal users. Commands run by LINUX.

- **proc** - This filesystem is not on a disk. It is a virtual filesystem that exists in the kernels imagination which is memory

  - A directory with info about process number
  - Each process has a directory below proc.

```
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```

Linux Source Tree (3)

- **usr** - Contains all commands, libraries, man pages, games and static files for normal operation.
  - **bin** - Almost all user commands. some commands are in /bin or /usr/local/bin.
  - **sbin** - System admin commands not needed on the root filesystem. e.g., most server programs.
  - **include** - Header files for the C programming language. Should be below /usr/lib for consistency.
  - **lib** - Unchanging data files for programs and subsystems
  - **local** - The place for locally installed software and other files.
  - **man** - Manual pages
  - **info** - Info documents
  - **doc** - Documentation
  - **tmp**
  - **X11R6** - The X windows system files. There is a directory similar to usr below this directory.
  - **X386** - Like X11R6 but for X11 release 5

```
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```

Linux Source Tree (4)

- **boot** - Files used by the bootstrap loader. Kernel images are often kept here.

- **lib** - Shared libraries needed by the programs on the root filesystem

- **modules** - Loadable kernel modules, especially those needed to boot the system after disasters.

- **dev** - Device files

- **etc** - Configuration files specific to the machine.

- **skel** - When a home directory is created it is initialized with files from this directory

- **sysconfig** - Files that configure the linux system for devices.

```
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bin    cdrom   etc    initrd.img   lib64           media   opt    root   sbin   sys   usr   vmlinuz
boot   dev     home   lib                          lost+found   mnt    proc   run    srv    tmp   var
```

Linux Source Tree (5)

- **var** - Contains files that change for mail, news, printers log files, man pages, temp files
  - **file**
  - **lib** - Files that change while the system is running normally
  - **local** - Variable data for programs installed in /usr/local.
  - **lock** - Lock files. Used by a program to indicate it is using a particular device or file
  - **log** - Log files from programs such as login and syslog which logs all logins and logouts.
  - **run** - Files that contain information about the system that is valid until the system is next booted
  - **spool** - Directories for mail, printer spools, news and other spooled work.
  - **tmp** - Temporary files that are large or need to exist for longer than they should in /tmp.
  - **catman** - A cache for man pages that are formatted on demand

```
quan@quan-ubuntu:/var$ ls
backups  cache  crash  lib  local  lock  log  mail  metrics  opt  run  spool  tmp
```

Linux Source Tree (6)

- **mnt** - Mount points for temporary mounts by the system administrator.

- **tmp** - Temporary files. Programs running after bootup should use /var/tmp

```
quan@quan-ubuntu:/$ ls
bin    cdrom  etc    initrd.img  lib64       media  opt   root  sbin  sys  usr  vmlinuz
boot   dev    home   lib         lost+found  mnt    proc  run   srv   tmp  var
```