

LINUX FILE AND DIRECTORY NAMING CONVENTIONS

```
root@kali: /bin
File Edit View Search Terminal Help
root@kali:~# touch payroll.1994
root@kali:~# touch PAYROLL.1994
root@kali:~# touch Payroll.1994
root@kali:~# touch Payroll*.1994
root@kali:~# locate payroll.1994
root@kali:~# ls
Desktop  Downloads  payroll.1994  PAYROLL.1994  Public  Videos
Documents  Music  Payroll.1994  Pictures  Templates
root@kali:~# ls /
.  dev  initrd.img  lib32  lost+found  opt  run  sys  var
bin  etc  initrd.img.old  lib64  media  proc  sbin  tmp  vmlinuz
boot  home  lib  libx32  mnt  root  srv  usr  vmlinuz.old
root@kali:~# cd /bin
root@kali:/bin# ls
['
0trace.sh
2to3-2.7
4l1toppm
7z
7za
7zr
aa-enabled
aa-exec
aapt
```

LINUX FILE SYSTEM

```
root@kali:~# cd ~
root@kali:~# cd /usr
root@kali:/usr# sudo mkdir mitch
root@kali:/usr# sudo mkdir cynthia
root@kali:/usr# cd mitch
root@kali:/usr/mitch# sudo mkdir docs
root@kali:/usr/mitch# sudo mkdir letters
root@kali:/usr/mitch# ls
docs  letters
```

PATHS

```
root@kali:~# cd /usr/mitch/docs
root@kali:~# touch mydocs
root@kali:~# ls
mydocs
```

```
root@kali:~# cd /usr/mitch/docs
root@kali:~# touch mydocs
root@kali:~# touch letter1 letter2
root@kali:~# ls /usr/mitch/docs
letter1 letter2 mydocs
root@kali:~# ls ../letters/letter1
../letters/letter1
root@kali:~# ls ../letters/letter2
../letters/letter2
root@kali:~#
```

FILE / DIRECTORY COMMANDS

```
root@kali:~# pwd
/root
root@kali:~# pwd /usr/mitch
/root
root@kali:~# pwd
/root
root@kali:~# cd /
root@kali:~# pwd
/
root@kali:~# pwd /usr/mitch
/
root@kali:~#
```

CD COMMANDS

```
root@kali:/# cd /
root@kali:/# ls -l
total 68
-rw-r--r--  1 root root    0 Jan 30  2019 0
lrwxrwxrwx  1 root root    7 Jul 19 13:32 bin -> usr/bin
drwxr-xr-x  3 root root 4096 Jul 19 13:45 boot
drwxr-xr-x 17 root root 3160 Jul 19 13:45 dev
drwxr-xr-x 185 root root 12288 Jul 19 13:45 etc
drwxr-xr-x  2 root root 4096 Nov 29  2018 home
lrwxrwxrwx  1 root root   34 Jul 19 13:32 initrd.img -> boot/initrd.img-4.19.0-
kali1-amd64
lrwxrwxrwx  1 root root   34 Jul 19 13:32 initrd.img.old -> boot/initrd.img-4.1
9.0-kali1-amd64
lrwxrwxrwx  1 root root    7 Jul 19 13:32 lib -> usr/lib
lrwxrwxrwx  1 root root    9 Jul 19 13:32 lib32 -> usr/lib32
lrwxrwxrwx  1 root root    9 Jul 19 13:32 lib64 -> usr/lib64
lrwxrwxrwx  1 root root   10 Jul 19 13:32 libx32 -> usr/libx32
drwx----- 2 root root 16384 Jul 19 13:32 lost+found
drwxr-xr-x  3 root root 4096 Jan 30  2019 media
drwxr-xr-x  2 root root 4096 Jan 30  2019 mnt
drwxr-xr-x  3 root root 4096 Jul 19 13:32 opt
dr-xr-xr-x 169 root root    0 Jul 19 13:45 proc
drwxr-xr-x 14 root root 4096 Jul 19 13:50 root
```

```
root@kali:~# cd /usr
root@kali:/usr# ls -l
total 204
drwxr-xr-x  2 root root 110592 Jul 19 13:45 bin
drwxr-xr-x  2 root root  4096 Jul 19 13:53 cynthia
drwxr-xr-x  2 root root  4096 Nov 29  2018 games
drwxr-xr-x 56 root root  4096 Jul 19 13:38 include
drwxr-xr-x 172 root root 12288 Jul 19 13:45 lib
drwxr-xr-x  3 root root  4096 Jul 19 13:35 lib32
drwxr-xr-x  2 root root  4096 Jul 19 13:38 lib64
drwxr-xr-x  3 root root  4096 Jul 19 13:35 libexec
drwxr-xr-x  2 root root  4096 Jan 30  2019 libx32
drwxr-xr-x 10 root root  4096 Jul 19 13:35 local
drwxr-xr-x  4 root root  4096 Jul 19 13:55 mitch
drwxr-xr-x  2 root root 20480 Jul 19 13:45 sbin
drwxr-xr-x 436 root root 16384 Jul 19 13:44 share
drwxr-xr-x  5 root root  4096 Jul 19 13:38 src
drwxr-xr-x  2 root root  4096 Jul 19 13:38 sslsplit
drwxr-xr-x  3 root root  4096 Jul 19 13:38 var
```



```

root@kali:/usr# cd bin
root@kali:/usr/bin# ls -l
total 526084
-rwxr-xr-x 1 root root 60064 Aug 30 2018 '['
-rwxr-xr-x 1 root root 2376 Aug 27 2018 0trace.sh
-rwxr-xr-x 1 root root 96 Nov 29 2018 2to3-2.7
-rwxr-xr-x 1 root root 10384 Jan 30 2016 4l1toppm
-rwxr-xr-x 1 root root 39 Feb 6 2018 7z
-rwxr-xr-x 1 root root 40 Feb 6 2018 7za
-rwxr-xr-x 1 root root 40 Feb 6 2018 7zr
-rwxr-xr-x 1 root root 30936 Nov 1 2018 aa-enabled
-rwxr-xr-x 1 root root 30936 Nov 1 2018 aa-exec
lrwxrwxrwx 1 root root 42 Jul 19 13:38 aapt -> ../lib/android-sdk/build-
d-tools/debian/aapt
lrwxrwxrwx 1 root root 43 Jul 19 13:38 aapt2 -> ../lib/android-sdk/build-
ld-tools/debian/aapt2
-rwxr-xr-x 1 root root 55480 Nov 3 2018 ab
-rwxr-xr-x 1 root root 98984 Jul 23 2015 ace
-rwxr-xr-x 1 root root 3451 Jan 25 2017 activate-global-python-argcompl
ete
-rwxr-xr-x 1 root root 14600 Nov 1 2018 acyclic
-rwxr-xr-x 1 root root 6356 Jun 30 2016 add-apt-repository
-rwxr-xr-x 1 root root 26704 Jan 10 2019 addpart
lrwxrwxrwx 1 root root 26 Jul 19 13:32 addr2line -> x86_64-linux-gnu-a
ddr2line

root@kali:/usr/bin# cd
root@kali:~# pwd
/root
root@kali:~#

```

MKDIR COMMAND

```

root@kali:~# cd ~
root@kali:~# mkdir dir1 dir2 dir3
root@kali:~# cd dir1
root@kali:~/dir1# mkdir dir1_1 dir1_2
root@kali:~/dir1# cd ../dir2
root@kali:~/dir2# mkdir dir2_1 dir2_2
root@kali:~/dir2# cd ../dir3
root@kali:~/dir3# mkdir dir3_1 dir3_2
root@kali:~/dir3# cd ~
root@kali:~# ls -l dir1
total 8
drwxr-xr-x 2 root root 4096 Jul 19 14:27 dir1_1
drwxr-xr-x 2 root root 4096 Jul 19 14:27 dir1_2
root@kali:~# ls -l dir2
total 8
drwxr-xr-x 2 root root 4096 Jul 19 14:27 dir2_1
drwxr-xr-x 2 root root 4096 Jul 19 14:27 dir2_2
root@kali:~# ls -l dir3
total 8
drwxr-xr-x 2 root root 4096 Jul 19 14:28 dir3_1
drwxr-xr-x 2 root root 4096 Jul 19 14:28 dir3_2
root@kali:~#

```

RMDIR COMMAND

Use the `rmdir` command to delete `dir2_2` and `dir3_2`.

```
root@kali:~# cd dir2
root@kali:~/dir2# rmdir dir2_2
root@kali:~/dir2# cd ../dir3
root@kali:~/dir3# rmdir dir3_2
root@kali:~/dir3# cd ~
root@kali:~# ls -l dir2
total 4
drwxr-xr-x 2 root root 4096 Jul 19 14:27 dir2_1
root@kali:~# ls -l dir3
total 4
drwxr-xr-x 2 root root 4096 Jul 19 14:28 dir3_1
root@kali:~#
```

VI FILE EDITOR

```

root@kali:~# vi ~/file_original.txt
root@kali:~# cp ~/file_original.txt ~/dir1/file1.txt
root@kali:~# cp ~/file_original.txt ~/dir1/file2.txt
root@kali:~# cp ~/file_original.txt ~/dir1/file3.txt
root@kali:~# ls -l ~/dir1
total 24
drwxr-xr-x 2 root root 4096 Jul 19 14:27 dir1_1
drwxr-xr-x 2 root root 4096 Jul 19 14:27 dir1_2
-rw-r--r-- 1 root root 8 Jul 19 14:47 file1.txt
-rw-r--r-- 1 root root 8 Jul 19 14:48 file2.txt
-rw-r--r-- 1 root root 8 Jul 19 14:48 file3.txt
-rw-r--r-- 1 root root 20 Jul 19 14:34 file.txt

root@kali:~# cp ~/file_original.txt ~/dir2/file2.txt
root@kali:~# cp ~/file_original.txt ~/dir2/file3.txt
root@kali:~# ls -l ~/dir2
total 16
drwxr-xr-x 2 root root 4096 Jul 19 14:27 dir2_1
-rw-r--r-- 1 root root 8 Jul 19 14:50 file2.txt
-rw-r--r-- 1 root root 8 Jul 19 14:50 file3.txt
-rw-r--r-- 1 root root 20 Jul 19 14:34 file.txt

```

MV COMMAND

```

root@kali:~# mv ~/dir2/file2.txt ~/dir2/dir2_1/file2_1.txt
root@kali:~# ls -l ~/
total 52
drwxr-xr-x 2 root root 4096 Jul 19 13:48 Desktop
drwxr-xr-x 4 root root 4096 Jul 19 14:48 dir1
drwxr-xr-x 3 root root 4096 Jul 19 14:52 dir2
drwxr-xr-x 3 root root 4096 Jul 19 14:34 dir3
drwxr-xr-x 2 root root 4096 Jul 19 13:48 Documents
drwxr-xr-x 2 root root 4096 Jul 19 13:48 Downloads
-rw-r--r-- 1 root root 8 Jul 19 14:46 file_original.txt
drwxr-xr-x 2 root root 4096 Jul 19 13:48 Music
-rw-r--r-- 1 root root 20 Jul 19 14:33 original_file.txt
-rw-r--r-- 1 root root 0 Jul 19 13:49 payroll.1994
-rw-r--r-- 1 root root 0 Jul 19 13:50 Payroll.1994
-rw-r--r-- 1 root root 0 Jul 19 13:49 PAYROLL.1994
drwxr-xr-x 2 root root 4096 Jul 19 13:48 Pictures
drwxr-xr-x 2 root root 4096 Jul 19 13:48 Public
drwxr-xr-x 2 root root 4096 Jul 19 13:48 Templates
drwxr-xr-x 2 root root 4096 Jul 19 13:48 Videos

```

RM COMMAND

```

root@kali:~# cd ~/dir3
root@kali:~/dir3# rm file3.txt
root@kali:~/dir3# ls -l
total 8
drwxr-xr-x 2 root root 4096 Jul 19 14:28 dir3_1

```