

```
(saaurabh@LenovoLegion5)-[~/LinuxPractice]  
$ cd FilePermissionDemo/
```

```
(saaurabh@LenovoLegion5)-[~/LinuxPractice/FilePermissionDemo]  
$ ls -l  
total 8  
-rw-r--r-- 1 saaurabh saaurabh 0 Apr 14 07:53 file.txt  
-rw-r--r-- 1 saaurabh saaurabh 0 Apr 14 07:53 HelloWorld.sh  
-rw-r----- 1 root root 102 Apr 14 09:03 rootfile.txt  
drwx--x--x 2 saaurabh saaurabh 4096 Apr 14 07:54 SecuredFolder
```

```
(saaurabh@LenovoLegion5)-[~/LinuxPractice/FilePermissionDemo]  
$ cat rootfile.txt  
cat: rootfile.txt: Permission denied
```

```
(saaurabh@LenovoLegion5)-[~/LinuxPractice/FilePermissionDemo]  
$ su root  
Password:  
(root@LenovoLegion5)-[/home/saaurabh/LinuxPractice/FilePermissionDemo]  
# cat rootfile.txt  
Confidential data which can be accessed only by the root user.  
Permission is denied for other users !
```

```
(root@LenovoLegion5)-[/home/saaurabh/LinuxPractice/FilePermissionDemo]  
# su saaurabh  
(saaurabh@LenovoLegion5)-[~/LinuxPractice/FilePermissionDemo]  
$ cat rootfile.txt  
cat: rootfile.txt: Permission denied
```

```
(saaurabh@LenovoLegion5)-[~/LinuxPractice/FilePermissionDemo]  
$
```

```
(saaurabh@LenovoLegion5)-[~/LinuxPractice/FilePermissionDemo]
$ echo "A demo to make an file executable by providing permissions : "
A demo to make an file executable by providing permissions :
```

```
(saaurabh@LenovoLegion5)-[~/LinuxPractice/FilePermissionDemo]
$ ls -l
total 12
-rw-r--r-- 1 saaurabh saaurabh  0 Apr 14 07:53 file.txt
-rw-r--r-- 1 saaurabh saaurabh 34 Apr 14 09:13 HelloWorld.sh
-rw-r----- 1 root    root    102 Apr 14 09:03 rootfile.txt
drwx--x--x 2 saaurabh saaurabh 4096 Apr 14 07:54 SecuredFolder
```

```
(saaurabh@LenovoLegion5)-[~/LinuxPractice/FilePermissionDemo]
$ ./HelloWorld.sh
bash: ./HelloWorld.sh: Permission denied
```

```
(saaurabh@LenovoLegion5)-[~/LinuxPractice/FilePermissionDemo]
$ chmod u+x HelloWorld.sh
```

```
(saaurabh@LenovoLegion5)-[~/LinuxPractice/FilePermissionDemo]
$ ls -l
total 12
-rw-r--r-- 1 saaurabh saaurabh  0 Apr 14 07:53 file.txt
-rwxr--r-- 1 saaurabh saaurabh 34 Apr 14 09:13 HelloWorld.sh
-rw-r----- 1 root    root    102 Apr 14 09:03 rootfile.txt
drwx--x--x 2 saaurabh saaurabh 4096 Apr 14 07:54 SecuredFolder
```

```
(saaurabh@LenovoLegion5)-[~/LinuxPractice/FilePermissionDemo]
$ ./HelloWorld.sh
Hello World!
```

```
(saaurabh@LenovoLegion5)-[~/LinuxPractice/FilePermissionDemo]
$ |
```

(saaurabh@LenovoLegion5)-[~/LinuxPractice/FilePermissionDemo]

```
$ echo "Giving permission of a file to a specific user :"
```

Giving permission of a file to a specific user :

(saaurabh@LenovoLegion5)-[~/LinuxPractice/FilePermissionDemo]

```
$ ls -l
```

total 16

-rw-----	1	boss	boss	56	Apr 14 09:43	bossfile.txt
-rw-r--r--	1	saaurabh	saaurabh	0	Apr 14 07:53	file.txt
-rwxr--r--	1	saaurabh	saaurabh	34	Apr 14 09:13	HelloWorld.sh
-rw-r-----	1	root	root	102	Apr 14 09:03	rootfile.txt
drwx--x--x	2	saaurabh	saaurabh	4096	Apr 14 07:54	SecuredFolder

(saaurabh@LenovoLegion5)-[~/LinuxPractice/FilePermissionDemo]

```
$ cat bossfile.txt
```

cat: bossfile.txt: Permission denied

(saaurabh@LenovoLegion5)-[~/LinuxPractice/FilePermissionDemo]

```
$ su boss
```

Password:

(boss@LenovoLegion5)-[/home/saaurabh/LinuxPractice/FilePermissionDemo]

```
$ cat bossfile.txt
```

Contents of this file can only be accessed by the boss.

(boss@LenovoLegion5)-[/home/saaurabh/LinuxPractice/FilePermissionDemo]

```
$ getfacl bossfile.txt
```

file: bossfile.txt

owner: boss

group: boss

user::rw-

group::---

other::---

(boss@LenovoLegion5)-[/home/saaurabh/LinuxPractice/FilePermissionDemo]

```
$ setfacl -m u:saaurabh:r bossfile.txt
```

(boss@LenovoLegion5)-[/home/saaurabh/LinuxPractice/FilePermissionDemo]

```
$ getfacl bossfile.txt
```

```
saurabh@LenovoLegion5: x + v

(boss@LenovoLegion5)-[/home/saurabh/LinuxPractice/FilePermissionDemo]
$ setfacl -m u:saurabh:r bossfile.txt

(boss@LenovoLegion5)-[/home/saurabh/LinuxPractice/FilePermissionDemo]
$ getfacl bossfile.txt
# file: bossfile.txt
# owner: boss
# group: boss
user::rw-
user:saurabh:r--
group:---
mask::r--
other:---

(boss@LenovoLegion5)-[/home/saurabh/LinuxPractice/FilePermissionDemo]
$ su saurabh
Password:
(saurabh@LenovoLegion5)-[~/LinuxPractice/FilePermissionDemo]
$ ls -l
total 16
-rw-r-----+ 1 boss    boss      56 Apr 14 09:43 bossfile.txt
-rw-r--r--  1 saurabh saurabh    0 Apr 14 07:53 file.txt
-rwxr--r--  1 saurabh saurabh   34 Apr 14 09:13 HelloWorld.sh
-rw-r-----  1 root    root     102 Apr 14 09:03 rootfile.txt
drwx--x--x  2 saurabh saurabh 4096 Apr 14 07:54 SecuredFolder

(saurabh@LenovoLegion5)-[~/LinuxPractice/FilePermissionDemo]
$ cat bossfile.txt
Contents of this file can only be accessed by the boss.

(saurabh@LenovoLegion5)-[~/LinuxPractice/FilePermissionDemo]
$ |
```

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Search

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