32.6. LABS



Exercise 32.2: umask

Create an empty file with:

```
$ touch afile
$ ls -l afile
-rw-rw-r-- 1 coop coop 0 Jul 26 12:43 afile
```

which shows it is created by default with both read and write permissions for owner and group, but only read for world.

In fact, at the operating system level the default permissions given when creating a file or directory are actually read/write for owner, group **and** world (0666); the default values have actually been modified by the current **umask**.

If you just type umask you get the current value:

```
$ umask
```

0002

which is the most conventional value set by system administrators for users. This value is combined with the file creation permissions to get the actual result; i.e.,

```
0666 \& ~002 = 0664; i.e., rw-rw-r--
```

Try modifying the umask and creating new files and see the resulting permissions, as in:

```
$ umask 0022
$ touch afile2
$ umask 0666
$ touch afile3
$ ls -l afile*
```

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