

Checking the projects directory for current permissions of authorized users.

```
researcher2@f71766242280:~/projects$ ls -l
total 20
drwx--x--- 2 researcher2 research_team 4096 Aug 15 15:17 drafts
-rw-rw-rw- 1 researcher2 research_team  46 Aug 15 15:17 project_k.txt
-rw-r----- 1 researcher2 research_team  46 Aug 15 15:17 project_m.txt
-rw-rw-r-- 1 researcher2 research_team  46 Aug 15 15:17 project_r.txt
-rw-rw-r-- 1 researcher2 research_team  46 Aug 15 15:17 project_t.txt
researcher2@f71766242280:~/projects$
```

The 10-character string to the left most side indicates permissions of the user. The first character represents the directory with a “d” or a file with a “-”. The next 3 characters indicate whether the user has read, write or execute permissions. The next set of 3 characters indicate whether that user has group permissions of the same variety. The final set of characters indicates whether the user has “other” permissions of the same variety of read, write and execute.

In this exercise, the example company does not allow employees authorization to have “other” write permissions so we need to remove those using this command. The only file that has those permissions enabled is project_k.txt

Chmod o-x project_k.txt

```
researcher2@f71766242280:~/projects$ chmod o-w project_k.txt
researcher2@f71766242280:~/projects$ ls -l
total 20
drwx--x--- 2 researcher2 research_team 4096 Aug 15 15:17 drafts
-rw-rw-r-- 1 researcher2 research_team  46 Aug 15 15:17 project_k.txt
-rw-r----- 1 researcher2 research_team  46 Aug 15 15:17 project_m.txt
-rw-rw-r-- 1 researcher2 research_team  46 Aug 15 15:17 project_r.txt
-rw-rw-r-- 1 researcher2 research_team  46 Aug 15 15:17 project_t.txt
researcher2@f71766242280:~/projects$
```

There is a hidden file named .project_x.txt that has write permissions enabled and should not.

```
researcher2@f71766242280:~/projects$ ls -a -l
total 32
drwxr-xr-x 3 researcher2 research_team 4096 Aug 15 15:17 .
drwxr-xr-x 3 researcher2 research_team 4096 Aug 15 15:55 ..
-rw--w---- 1 researcher2 research_team  46 Aug 15 15:17 .project_x.txt
drwx--x--- 2 researcher2 research_team 4096 Aug 15 15:17 drafts
-rw-rw-r-- 1 researcher2 research_team  46 Aug 15 15:17 project_k.txt
-rw-r----- 1 researcher2 research_team  46 Aug 15 15:17 project_m.txt
-rw-rw-r-- 1 researcher2 research_team  46 Aug 15 15:17 project_r.txt
-rw-rw-r-- 1 researcher2 research_team  46 Aug 15 15:17 project_t.txt
```

Here we disable those permissions

```
researcher2@f71766242280:~/projects$ chmod u-w .project_x.txt
researcher2@f71766242280:~/projects$ chmod g-w .project_x.txt
researcher2@f71766242280:~/projects$ ls -a -l
total 32
drwxr-xr-x 3 researcher2 research_team 4096 Aug 15 15:17 .
drwxr-xr-x 3 researcher2 research_team 4096 Aug 15 15:55 ..
-r----- 1 researcher2 research_team  46 Aug 15 15:17 .project_x.txt
drwx--x--- 2 researcher2 research_team 4096 Aug 15 15:17 drafts
-rw-rw-r-- 1 researcher2 research_team  46 Aug 15 15:17 project_k.txt
-rw-r----- 1 researcher2 research_team  46 Aug 15 15:17 project_m.txt
-rw-rw-r-- 1 researcher2 research_team  46 Aug 15 15:17 project_r.txt
-rw-rw-r-- 1 researcher2 research_team  46 Aug 15 15:17 project_t.txt
researcher2@f71766242280:~/projects$
```