

Lab 8 | File permissions

Question 1

```
miguel@miguel-VirtualBox:~/lab8/question1$ ls -l
total 256
drwxrw-r-- 2 miguel miguel  4096 Dec 10 17:55 directory
-rw-rwxr-- 1 miguel miguel   175 Dec 10 17:55 file.txt
-rw-r-x--- 1 miguel miguel 246608 Dec 10 17:55 img.png
-rw-rw---- 1 miguel miguel    21 Dec 10 17:55 program.py
miguel@miguel-VirtualBox:~/lab8/question1$ chmod g=rw,o=r directory/
miguel@miguel-VirtualBox:~/lab8/question1$ ls -l
total 256
drwxrw-r-- 2 miguel miguel  4096 Dec 10 17:55 directory
-rw-rwxr-- 1 miguel miguel   175 Dec 10 17:55 file.txt
-rw-r-x--- 1 miguel miguel 246608 Dec 10 17:55 img.png
-rw-rw---- 1 miguel miguel    21 Dec 10 17:55 program.py
miguel@miguel-VirtualBox:~/lab8/question1$ chmod g=rx,o=--- img.png
miguel@miguel-VirtualBox:~/lab8/question1$ ls -l
total 256
drwxrw-r-- 2 miguel miguel  4096 Dec 10 17:55 directory
-rw-rwxr-- 1 miguel miguel   175 Dec 10 17:55 file.txt
-rw-r-x--- 1 miguel miguel 246608 Dec 10 17:55 img.png
-rw-rw---- 1 miguel miguel    21 Dec 10 17:55 program.py
miguel@miguel-VirtualBox:~/lab8/question1$ chmod q=rw,o=--- program.py
miguel@miguel-VirtualBox:~/lab8/question1$ ls -l
total 256
drwxrw-r-- 2 miguel miguel  4096 Dec 10 17:55 directory
-rw-rwxr-- 1 miguel miguel   175 Dec 10 17:55 file.txt
-rw-r-x--- 1 miguel miguel 246608 Dec 10 17:55 img.png
-rw-rw---- 1 miguel miguel    21 Dec 10 17:55 program.py
miguel@miguel-VirtualBox:~/lab8/question1$ chmod u=rwx g=rwx,o=r file.txt
chmod: cannot access 'g=rwx,o=r': No such file or directory
miguel@miguel-VirtualBox:~/lab8/question1$ chmod u=rwx,g=rwx,o=r file.txt
miguel@miguel-VirtualBox:~/lab8/question1$ ls -l
total 256
drwxrw-r-- 2 miguel miguel  4096 Dec 10 17:55 directory
-rwxrwxr-- 1 miguel miguel   175 Dec 10 17:55 file.txt
-rw-r-x--- 1 miguel miguel 246608 Dec 10 17:55 img.png
-rw-rw---- 1 miguel miguel    21 Dec 10 17:55 program.py
miguel@miguel-VirtualBox:~/lab8/question1$
```

Question 2

```
miguel@miguel-VirtualBox:~/lab8/question1$ cd ../question2/
miguel@miguel-VirtualBox:~/lab8/question2$ la
directory file.txt img.png program.py
miguel@miguel-VirtualBox:~/lab8/question2$ ls
directory file.txt img.png program.py
miguel@miguel-VirtualBox:~/lab8/question2$ ls -l
total 256
drwxrwxr-x 2 miguel miguel 4096 Dec 10 17:55 directory
-rw-rw-r-- 1 miguel miguel 317 Dec 10 17:55 file.txt
-rw-rw-r-- 1 miguel miguel 246608 Dec 10 17:55 img.png
-rw-rw-r-- 1 miguel miguel 21 Dec 10 17:55 program.py
miguel@miguel-VirtualBox:~/lab8/question2$ chmod 764 directory/
miguel@miguel-VirtualBox:~/lab8/question2$ ls -l
total 256
drwxrw-r-- 2 miguel miguel 4096 Dec 10 17:55 directory
-rw-rw-r-- 1 miguel miguel 317 Dec 10 17:55 file.txt
-rw-rw-r-- 1 miguel miguel 246608 Dec 10 17:55 img.png
-rw-rw-r-- 1 miguel miguel 21 Dec 10 17:55 program.py
miguel@miguel-VirtualBox:~/lab8/question2$ chmod 660 img.png
miguel@miguel-VirtualBox:~/lab8/question2$ ls -l
total 256
drwxrw-r-- 2 miguel miguel 4096 Dec 10 17:55 directory
-rw-rw-r-- 1 miguel miguel 317 Dec 10 17:55 file.txt
-rw-rw---- 1 miguel miguel 246608 Dec 10 17:55 img.png
-rw-rw-r-- 1 miguel miguel 21 Dec 10 17:55 program.py
miguel@miguel-VirtualBox:~/lab8/question2$ chmod 650 img.png
miguel@miguel-VirtualBox:~/lab8/question2$ ls -l
total 256
drwxrw-r-- 2 miguel miguel 4096 Dec 10 17:55 directory
-rw-rw-r-- 1 miguel miguel 317 Dec 10 17:55 file.txt
-rw-r-x--- 1 miguel miguel 246608 Dec 10 17:55 img.png
-rw-rw-r-- 1 miguel miguel 21 Dec 10 17:55 program.py
miguel@miguel-VirtualBox:~/lab8/question2$ chmod 660 program.py
miguel@miguel-VirtualBox:~/lab8/question2$ ls -l
total 256
drwxrw-r-- 2 miguel miguel 4096 Dec 10 17:55 directory
-rw-rw-r-- 1 miguel miguel 317 Dec 10 17:55 file.txt
-rw-r-x--- 1 miguel miguel 246608 Dec 10 17:55 img.png
-rw-rw---- 1 miguel miguel 21 Dec 10 17:55 program.py
miguel@miguel-VirtualBox:~/lab8/question2$ chmod 774 file.txt
miguel@miguel-VirtualBox:~/lab8/question2$ ls -l
total 256
drwxrw-r-- 2 miguel miguel 4096 Dec 10 17:55 directory
-rwxrwxr-- 1 miguel miguel 317 Dec 10 17:55 file.txt
-rw-r-x--- 1 miguel miguel 246608 Dec 10 17:55 img.png
-rw-rw---- 1 miguel miguel 21 Dec 10 17:55 program.py
miguel@miguel-VirtualBox:~/lab8/question2$
```

Question 3

```
miguel@miguel-VirtualBox:~/lab8/question3$ ls -l
total 256
drwxrwxr-x 2 miguel miguel  4096 Dec 10 17:55 directory
-rw-rw-r-- 1 miguel miguel   145 Dec 10 17:55 file.txt
-rw-rw-r-- 1 miguel miguel 246608 Dec 10 17:55 img.png
-rw-rw-r-- 1 miguel miguel    21 Dec 10 17:55 program.py
miguel@miguel-VirtualBox:~/lab8/question3$ chmod 561 directory/
miguel@miguel-VirtualBox:~/lab8/question3$ ls -l
total 256
dr-xrw---x 2 miguel miguel  4096 Dec 10 17:55 directory
-rw-rw-r-- 1 miguel miguel   145 Dec 10 17:55 file.txt
-rw-rw-r-- 1 miguel miguel 246608 Dec 10 17:55 img.png
-rw-rw-r-- 1 miguel miguel    21 Dec 10 17:55 program.py
miguel@miguel-VirtualBox:~/lab8/question3$ chmod 777 img.png
miguel@miguel-VirtualBox:~/lab8/question3$ ls -l
total 256
dr-xrw---x 2 miguel miguel  4096 Dec 10 17:55 directory
-rw-rw-r-- 1 miguel miguel   145 Dec 10 17:55 file.txt
-rwxrwxrwx 1 miguel miguel 246608 Dec 10 17:55 img.png
-rw-rw-r-- 1 miguel miguel    21 Dec 10 17:55 program.py
miguel@miguel-VirtualBox:~/lab8/question3$ chmod 756 program.py
miguel@miguel-VirtualBox:~/lab8/question3$ ls -l
total 256
dr-xrw---x 2 miguel miguel  4096 Dec 10 17:55 directory
-rw-rw-r-- 1 miguel miguel   145 Dec 10 17:55 file.txt
-rwxrwxrwx 1 miguel miguel 246608 Dec 10 17:55 img.png
-rwxr-xrw- 1 miguel miguel    21 Dec 10 17:55 program.py
miguel@miguel-VirtualBox:~/lab8/question3$ chmod 560 file.txt
miguel@miguel-VirtualBox:~/lab8/question3$ ls -l
total 256
dr-xrw---x 2 miguel miguel  4096 Dec 10 17:55 directory
-r-xrw--- 1 miguel miguel   145 Dec 10 17:55 file.txt
-rwxrwxrwx 1 miguel miguel 246608 Dec 10 17:55 img.png
-rwxr-xrw- 1 miguel miguel    21 Dec 10 17:55 program.py
miguel@miguel-VirtualBox:~/lab8/question3$
```

Question 4

```
miguel@miguel-VirtualBox:~/lab8/question3$ cd ../question4/
miguel@miguel-VirtualBox:~/lab8/question4$ ls -l
total 256
drwxrwxr-x 2 miguel miguel  4096 Dec 10 17:55 directory
-rw-rw-r-- 1 miguel miguel   131 Dec 10 17:55 file.txt
-rw-rw-r-- 1 miguel miguel 246609 Dec 10 17:55 img.png
-rw-rw-r-- 1 miguel miguel    21 Dec 10 17:55 program.py
miguel@miguel-VirtualBox:~/lab8/question4$ chmod u=x,g=wx,o=rw directory/
miguel@miguel-VirtualBox:~/lab8/question4$ ls -l
total 256
d--x-wxrw- 2 miguel miguel  4096 Dec 10 17:55 directory
-rw-rw-r-- 1 miguel miguel   131 Dec 10 17:55 file.txt
-rw-rw-r-- 1 miguel miguel 246609 Dec 10 17:55 img.png
-rw-rw-r-- 1 miguel miguel    21 Dec 10 17:55 program.py
miguel@miguel-VirtualBox:~/lab8/question4$ chmod u=rwx,g=rx,o=--- img.png
miguel@miguel-VirtualBox:~/lab8/question4$ ls -l
total 256
d--x-wxrw- 2 miguel miguel  4096 Dec 10 17:55 directory
-rw-rw-r-- 1 miguel miguel   131 Dec 10 17:55 file.txt
-rwxr-x--- 1 miguel miguel 246609 Dec 10 17:55 img.png
-rw-rw-r-- 1 miguel miguel    21 Dec 10 17:55 program.py
miguel@miguel-VirtualBox:~/lab8/question4$ chmod u=w,g=x,o=r program.py
miguel@miguel-VirtualBox:~/lab8/question4$ ls -l
total 256
d--x-wxrw- 2 miguel miguel  4096 Dec 10 17:55 directory
-rw-rw-r-- 1 miguel miguel   131 Dec 10 17:55 file.txt
-rwxr-x--- 1 miguel miguel 246609 Dec 10 17:55 img.png
--w---xr-- 1 miguel miguel    21 Dec 10 17:55 program.py
miguel@miguel-VirtualBox:~/lab8/question4$ chmod u=rx,g=rw,o=wx file.txt
miguel@miguel-VirtualBox:~/lab8/question4$ ls -l
total 256
d--x-wxrw- 2 miguel miguel  4096 Dec 10 17:55 directory
-r-xrw--wx 1 miguel miguel   131 Dec 10 17:55 file.txt
-rwxr-x--- 1 miguel miguel 246609 Dec 10 17:55 img.png
--w---xr-- 1 miguel miguel    21 Dec 10 17:55 program.py
miguel@miguel-VirtualBox:~/lab8/question4$
```