File Permissions | Lab 8

Question 1

```
harold@harold-VirtualBox:~/lab8/question1$ ls -l
total 16
drwxrwxr-x 2 harold harold 4096 Dec 15 01:08 directory
drwxrwxr-x 2 harold harold 4096 Dec 15 01:08 file.txt
drwxrwxr-x 2 harold harold 4096 Dec 15 01:08 img.png
drwxrwxr-x 2 harold harold 4096 Dec 15 01:09 program.py
harold@harold-VirtualBox:~/lab8/question1$ chmod g=rw,o=r directory/
harold@harold-VirtualBox:~/lab8/question1$ ls -l
total 16
drwxrw-r-- 2 harold harold 4096 Dec 15 01:08 directory
drwxrwxr-x 2 harold harold 4096 Dec 15 01:08 file.txt
drwxrwxr-x 2 harold harold 4096 Dec 15 01:08 img.png
drwxrwxr-x 2 harold harold 4096 Dec 15 01:09 program.py
harold@harold-VirtualBox:~/lab8/question1$
```

```
harold@harold-VirtualBox:~/lab8/question1$ ls -l
total 16
drwxrw-r-- 2 harold harold 4096 Dec 15 01:08 directory
drwxrwxr-x 2 harold harold 4096 Dec 15 01:08 file.txt
drwxrwxr-x 2 harold harold 4096 Dec 15 01:08 img.png
drwxrwxr-x 2 harold harold 4096 Dec 15 01:09 program.py
harold@harold-VirtualBox:~/lab8/question1$ chmod g=rx,o-r img.png
harold@harold-VirtualBox:~/lab8/question1$ ls -l
total 16
drwxrw-r-- 2 harold harold 4096 Dec 15 01:08 directory
drwxrwxr-x 2 harold harold 4096 Dec 15 01:08 file.txt
drwxr-x--x 2 harold harold 4096 Dec 15 01:08 img.png
drwxrwxr-x 2 harold harold 4096 Dec 15 01:09 program.py
harold@harold-VirtualBox:~/lab8/question1$
```

Question1

```
harold@harold-VirtualBox:~/lab8/question1$ ls -l
total 16
drwxrw-r-- 2 harold harold 4096 Dec 15 01:08 directory
drwxrwxr-x 2 harold harold 4096 Dec 15 01:08 file.txt
drwxr-x--x 2 harold harold 4096 Dec 15 01:08 img.png
drwxrwx--x 2 harold harold 4096 Dec 15 01:09 program.py
harold@harold-VirtualBox:~/lab8/question1$ chmod u+x,g+x file.txt
harold@harold-VirtualBox:~/lab8/question1$ ls -l
total 16
drwxrw-r-- 2 harold harold 4096 Dec 15 01:08 directory
drwxrwxr-x 2 harold harold 4096 Dec 15 01:08 file.txt
drwxr-x--x 2 harold harold 4096 Dec 15 01:08 img.png
drwxrwx--x 2 harold harold 4096 Dec 15 01:09 program.py
harold@harold-VirtualBox:~/lab8/question1$
```

Question 2

```
harold@harold-VirtualBox:~/lab8/question2$ ls -l
total 16
drwxrwxr-x 2 harold harold 4096 Dec 15 01:45 directory
drwxrwxr-x 2 harold harold 4096 Dec 15 01:45 file.txt
drwxrwxr-x 2 harold harold 4096 Dec 15 01:45 img.png
drwxrwxr-x 2 harold harold 4096 Dec 15 01:46 program.py
harold@harold-VirtualBox:~/lab8/question2$ chmod 754 directory/
harold@harold-VirtualBox:~/lab8/question2$ ls -l
total 16
drwxr-xr-- 2 harold harold 4096 Dec 15 01:45 directory
drwxrwxr-x 2 harold harold 4096 Dec 15 01:45 file.txt
drwxrwxr-x 2 harold harold 4096 Dec 15 01:45 img.png
drwxrwxr-x 2 harold harold 4096 Dec 15 01:46 program.py
harold@harold-VirtualBox:~/lab8/question2$
```

```
harold@harold-VirtualBox:~/lab8/question2$ ls -l
total 16
drwxr-xr-- 2 harold harold 4096 Dec 15 01:45 directory
drwxrwxr-x 2 harold harold 4096 Dec 15 01:45 file.txt
drwxrwxr-x 2 harold harold 4096 Dec 15 01:45 img.png
drwxrwxr-x 2 harold harold 4096 Dec 15 01:46 program.py
harold@harold-VirtualBox:~/lab8/question2$ chmod 650 img.png
harold@harold-VirtualBox:~/lab8/question2$ ls -l
total 16
drwxr-xr-- 2 harold harold 4096 Dec 15 01:45 directory
drwxrwxr-x 2 harold harold 4096 Dec 15 01:45 file.txt
drw-r-x--- 2 harold harold 4096 Dec 15 01:45 img.png
drwxrwxr-x 2 harold harold 4096 Dec 15 01:46 program.py
harold@harold-VirtualBox:~/lab8/question2$
```

```
harold@harold-VirtualBox:~/lab8/question2$ ls -l
total 16
drwxr-xr-- 2 harold harold 4096 Dec 15 01:45 directory
drwxrwxr-x 2 harold harold 4096 Dec 15 01:45 file.txt
drw-r-x--- 2 harold harold 4096 Dec 15 01:45 img.png
drwxrwxr-x 2 harold harold 4096 Dec 15 01:46 program.py
harold@harold-VirtualBox:~/lab8/question2$ chmod 660 program.py
harold@harold-VirtualBox:~/lab8/question2$ ls -l
total 16
drwxr-xr-- 2 harold harold 4096 Dec 15 01:45 directory
drwxrwxr-x 2 harold harold 4096 Dec 15 01:45 file.txt
drw-r-x--- 2 harold harold 4096 Dec 15 01:45 img.png
drw-rw---- 2 harold harold 4096 Dec 15 01:46 program.py
harold@harold-VirtualBox:~/lab8/question2$
```

```
harold@harold-VirtualBox:~/lab8/question2$ ls -l
total 16
drwxr-xr-- 2 harold harold 4096 Dec 15 01:45 directory
drwxrwxr-x 2 harold harold 4096 Dec 15 01:45 file.txt
drw-r-x--- 2 harold harold 4096 Dec 15 01:45 img.png
drw-rw---- 2 harold harold 4096 Dec 15 01:46 program.py
harold@harold-VirtualBox:~/lab8/question2$ chmod 774 file.txt
harold@harold-VirtualBox:~/lab8/question2$ ls -l
total 16
drwxr-xr-- 2 harold harold 4096 Dec 15 01:45 directory
drwxrwxr-- 2 harold harold 4096 Dec 15 01:45 file.txt
drw-r-x--- 2 harold harold 4096 Dec 15 01:45 img.png
drw-rw---- 2 harold harold 4096 Dec 15 01:46 program.py
harold@harold-VirtualBox:~/lab8/question2$
```

Question 3

```
harold@harold-VirtualBox:~/lab8/question3$ ls -l
total 20
drwxrwxr-x 2 harold harold 4096 Dec 15 02:00 directory
drwxrwxr-x 2 harold harold 4096 Dec 15 02:00 file.txt
drwxrwxr-x 2 harold harold 4096 Dec 15 02:00 img,png
drwxrwxr-x 2 harold harold 4096 Dec 15 02:05 img.png
drwxrwxr-x 2 harold harold 4096 Dec 15 02:02 program.py
harold@harold-VirtualBox:~/lab8/question3$ chmod 561 directory
harold@harold-VirtualBox:~/lab8/question3$ ls -l
total 20
dr-xrw---x 2 harold harold 4096 Dec 15 02:00 directory
drwxrwxr-x 2 harold harold 4096 Dec 15 02:00 file.txt
drwxrwxr-x 2 harold harold 4096 Dec 15 02:00 img,png
drwxrwxr-x 2 harold harold 4096 Dec 15 02:05 img.png
drwxrwxr-x 2 harold harold 4096 Dec 15 02:02 program.py
harold@harold-VirtualBox:~/lab8/question3$
```

```
harold@harold-VirtualBox:~/lab8/question3$ ls -l
total 20
dr-xrw---x 2 harold harold 4096 Dec 15 02:00 directory
drwxrwxr-x 2 harold harold 4096 Dec 15 02:00 file.txt
drwxrwxr-x 2 harold harold 4096 Dec 15 02:00 img,png
drwxrwxr-x 2 harold harold 4096 Dec 15 02:05 img.png
drwxrwxr-x 2 harold harold 4096 Dec 15 02:02 program.py
harold@harold-VirtualBox:~/lab8/question3$ chmod 777 img.png
harold@harold-VirtualBox:~/lab8/question3$ ls -l
total 20
dr-xrw---x 2 harold harold 4096 Dec 15 02:00 directory
drwxrwxr-x 2 harold harold 4096 Dec 15 02:00 file.txt
drwxrwxr-x 2 harold harold 4096 Dec 15 02:00 img,png
drwxrwxrwx 2 harold harold 4096 Dec 15 02:05 img.png
drwxrwxr-x 2 harold harold 4096 Dec 15 02:02 program.py
harold@harold-VirtualBox:~/lab8/question3$
```

```
harold@harold-VirtualBox:~/lab8/question3$ ls -l
total 20
dr-xrw---x 2 harold harold 4096 Dec 15 02:00 directory
drwxrwxr-x 2 harold harold 4096 Dec 15 02:00 file.txt
drwxrwxr-x 2 harold harold 4096 Dec 15 02:00 img,png
drwxrwxrwx 2 harold harold 4096 Dec 15 02:05 img.png
drwxrwxr-x 2 harold harold 4096 Dec 15 02:02 program.py
harold@harold-VirtualBox:~/lab8/question3$ chmod 756 program.py
harold@harold-VirtualBox:~/lab8/question3$ ls -l
total 20
dr-xrw---x 2 harold harold 4096 Dec 15 02:00 directory
drwxrwxr-x 2 harold harold 4096 Dec 15 02:00 file.txt
drwxrwxr-x 2 harold harold 4096 Dec 15 02:00 img,png
drwxrwxrwx 2 harold harold 4096 Dec 15 02:05 img.png
drwxr-xrw- 2 harold harold 4096 Dec 15 02:02 program.py
harold@harold-VirtualBox:~/lab8/question3$
```

```
harold@harold-VirtualBox:~/lab8/question3$ ls -l
total 20
dr-xrw---x 2 harold harold 4096 Dec 15 02:00 directory
dr-xrw---- 2 harold harold 4096 Dec 15 02:00 file.txt
drwxrwxr-x 2 harold harold 4096 Dec 15 02:00 img,png
drwxrwxrwx 2 harold harold 4096 Dec 15 02:05 img.png
drwxr-xrw- 2 harold harold 4096 Dec 15 02:02 program.py
harold@harold-VirtualBox:~/lab8/question3$ chmod 560 file.txt
harold@harold-VirtualBox:~/lab8/question3$ ls -l
total 20
dr-xrw---x 2 harold harold 4096 Dec 15 02:00 directory
dr-xrw---- 2 harold harold 4096 Dec 15 02:00 file.txt
drwxrwxr-x 2 harold harold 4096 Dec 15 02:00 img,png
drwxrwxrwx 2 harold harold 4096 Dec 15 02:05 img.png
drwxr-xrw- 2 harold harold 4096 Dec 15 02:02 program.py
harold@harold-VirtualBox:~/lab8/question3$
```

Question 4

```
harold@harold-VirtualBox:~/lab8/question4$ ls -l
total 16
drwxrwxr-x 2 harold harold 4096 Dec 15 02:17 directory
drwxrwxr-x 2 harold harold 4096 Dec 15 02:17 file.txt
drwxrwxr-x 2 harold harold 4096 Dec 15 02:18 img.png
drwxrwxr-x 2 harold harold 4096 Dec 15 02:18 program.py
harold@harold-VirtualBox:~/lab8/question4$ chmod u+x,g=wx,o=rw directory/
harold@harold-VirtualBox:~/lab8/question4$ ls -l
total 16
drwx-wxrw- 2 harold harold 4096 Dec 15 02:17 directory
drwxrwxr-x 2 harold harold 4096 Dec 15 02:17 file.txt
drwxrwxr-x 2 harold harold 4096 Dec 15 02:18 img.png
drwxrwxr-x 2 harold harold 4096 Dec 15 02:18 program.py
harold@harold-VirtualBox:~/lab8/question4$
```

```
harold@harold-VirtualBox:~/lab8/question4$ ls -l
total 16
drwx-wxrw- 2 harold harold 4096 Dec 15 02:17 directory
drwxrwxr-x 2 harold harold 4096 Dec 15 02:17 file.txt
drwxrwxr-x 2 harold harold 4096 Dec 15 02:18 img.png
drwxrwxr-x 2 harold harold 4096 Dec 15 02:18 program.py
harold@harold-VirtualBox:~/lab8/question4$ chmod u=rwx,g=rw,o-r img.png
harold@harold-VirtualBox:~/lab8/question4$ ls -l
total 16
drwx-wxrw- 2 harold harold 4096 Dec 15 02:17 directory
drwxrwxr-x 2 harold harold 4096 Dec 15 02:17 file.txt
drwxrw---x 2 harold harold 4096 Dec 15 02:18 img.png
drwxrwxr-x 2 harold harold 4096 Dec 15 02:18 program.py
harold@harold-VirtualBox:~/lab8/question4$
```

```
harold@harold-VirtualBox:~/lab8/question4$ ls -l
total 16
drwx-wxrw- 2 harold harold 4096 Dec 15 02:17 directory
drwxrwxr-x 2 harold harold 4096 Dec 15 02:17 file.txt
drwxrw---x 2 harold harold 4096 Dec 15 02:18 img.png
drwxrwxr-x 2 harold harold 4096 Dec 15 02:18 program.py
harold@harold-VirtualBox:~/lab8/question4$ chmod u=w,g=x program.py
harold@harold-VirtualBox:~/lab8/question4$ ls -l
total 16
drwx-wxrw- 2 harold harold 4096 Dec 15 02:17 directory
drwxrwxr-x 2 harold harold 4096 Dec 15 02:17 file.txt
drwxrw---x 2 harold harold 4096 Dec 15 02:18 img.png
d-w---xr-x 2 harold harold 4096 Dec 15 02:18 program.py
harold@harold-VirtualBox:~/lab8/question4$
```

```
harold@harold-VirtualBox:~/lab8/question4$ ls -l
total 16
drwx-wxrw- 2 harold harold 4096 Dec 15 02:17 directory
drwxrwxr-x 2 harold harold 4096 Dec 15 02:17 file.txt
drwxrw---x 2 harold harold 4096 Dec 15 02:18 img.png
d-w---xr-x 2 harold harold 4096 Dec 15 02:18 program.py
harold@harold-VirtualBox:~/lab8/question4$ chmod u=rx,g=rw,o=wx file.txt
harold@harold-VirtualBox:~/lab8/question4$ ls -l
total 16
drwx-wxrw- 2 harold harold 4096 Dec 15 02:17 directory
dr-xrw--wx 2 harold harold 4096 Dec 15 02:17 file.txt
drwxrw---x 2 harold harold 4096 Dec 15 02:18 img.png
d-w---xr-x 2 harold harold 4096 Dec 15 02:18 program.py
harold@harold-VirtualBox:~/lab8/question4$
```