

# Experiment - 6

## Linux Permission Commands

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1. **touch** : used to create a file without any content

```
tryhackme@linux1:~$ touch test
tryhackme@linux1:~$ ls
access.log  folder1  folder2  folder3  folder4  jaydeep  test
tryhackme@linux1:~$ touch t1 t2 t3
tryhackme@linux1:~$ ls
access.log  folder1  folder2  folder3  folder4  jaydeep  t1  t2  t3  test
tryhackme@linux1:~$
```

2. **what is**: Command used in describing the other command's functions.

```
tryhackme@linux1:~$ whatis echo
echo (1)                  - display a line of text
```

3. **cd**: used to change the working directory of the working drive or another lettered drive.

```
tryhackme@linux1:~$ cd folder1
tryhackme@linux1:~/folder1$
```

4. **pwd**: command prints the full name (the full path) of current/working directory

```
tryhackme@linux1:~/folder1$ pwd
/home/tryhackme/folder1
```

5. **wc (Word Count)**: shown the word count as well as the number of bytes, words, and lines in files

```
tryhackme@linux1:~$ wc state.txt
8  6 49 state.txt
```

6. **ls-l**: This displays a long listing with detailed information

```
tryhackme@linux1:~$ ls -l
total 84
-rw-rw-r-- 1 tryhackme tryhackme 65522 May 10 2021 access.log
drwxr-xr-x 2 tryhackme tryhackme 4096 May 10 2021 folder1
drwxr-xr-x 2 tryhackme tryhackme 4096 May 10 2021 folder2
drwxr-xr-x 2 tryhackme tryhackme 4096 May 10 2021 folder3
drwxr-xr-x 2 tryhackme tryhackme 4096 May 10 2021 folder4
-rw-rw-r-- 1 tryhackme tryhackme 21 Oct 28 04:21 jaydeep
-rw-rw-r-- 1 tryhackme tryhackme 0 Oct 28 04:23 t1
-rw-rw-r-- 1 tryhackme tryhackme 0 Oct 28 04:23 t2
-rw-rw-r-- 1 tryhackme tryhackme 0 Oct 28 04:23 t3
-rw-rw-r-- 1 tryhackme tryhackme 0 Oct 28 04:22 test
```

8. **grep** : used in searching and matching text files contained in the regular expressions

```
tryhackme@linux1:~$ grep "I" jaydeep
I am Jaydeep Mandloi
```

9. **find**: find helps you find things, and not just by filename.

```
tryhackme@linux1:~$ find -name state.txt
./state.txt
tryhackme@linux1:~$ find -name *.log
./access.log
tryhackme@linux1:~$ find -name *.txt
./state.txt
```

10. **chmod**: used to change the access permissions of files and directories.

```
tryhackme@linux1:~$ chmod ug+rw,u-r test
tryhackme@linux1:~$ ls -l
total 84
-rw-rw-r-- 1 tryhackme tryhackme 65522 May 10 2021 access.log
drwxr-xr-x 2 tryhackme tryhackme 4096 May 10 2021 folder1
drwxr-xr-x 2 tryhackme tryhackme 4096 May 10 2021 folder2
drwxr-xr-x 2 tryhackme tryhackme 4096 May 10 2021 folder3
drwxr-xr-x 2 tryhackme tryhackme 4096 May 10 2021 folder4
-rw-rw-r-- 1 tryhackme tryhackme 21 Oct 28 04:21 jaydeep
-rw-rw-r-- 1 tryhackme tryhackme 0 Oct 28 04:23 t1
-rw-rw-r-- 1 tryhackme tryhackme 0 Oct 28 04:23 t2
-rw-rw-r-- 1 tryhackme tryhackme 0 Oct 28 04:23 t3
--wxrwxrwx 1 tryhackme tryhackme 0 Oct 28 04:22 test
tryhackme@linux1:~$
```

```

tryhackme@linux1:~$ chmod a-r test
tryhackme@linux1:~$ ls -l
total 84
-rw-rw-r-- 1 tryhackme tryhackme 65522 May 10 2021 access.log
drwxr-xr-x 2 tryhackme tryhackme 4096 May 10 2021 folder1
drwxr-xr-x 2 tryhackme tryhackme 4096 May 10 2021 folder2
drwxr-xr-x 2 tryhackme tryhackme 4096 May 10 2021 folder3
drwxr-xr-x 2 tryhackme tryhackme 4096 May 10 2021 folder4
-rw-rw-r-- 1 tryhackme tryhackme 21 Oct 28 04:21 jaydeep
-rw-rw-r-- 1 tryhackme tryhackme 0 Oct 28 04:23 t1
-rw-rw-r-- 1 tryhackme tryhackme 0 Oct 28 04:23 t2
-rw-rw-r-- 1 tryhackme tryhackme 0 Oct 28 04:23 t3
--wx-wx-wx 1 tryhackme tryhackme 0 Oct 28 04:22 test
tryhackme@linux1:~$

```

```

tryhackme@linux1:~$ chmod a=r test
tryhackme@linux1:~$ ls -l
total 84
-rw-rw-r-- 1 tryhackme tryhackme 65522 May 10 2021 access.log
drwxr-xr-x 2 tryhackme tryhackme 4096 May 10 2021 folder1
drwxr-xr-x 2 tryhackme tryhackme 4096 May 10 2021 folder2
drwxr-xr-x 2 tryhackme tryhackme 4096 May 10 2021 folder3
drwxr-xr-x 2 tryhackme tryhackme 4096 May 10 2021 folder4
-rw-rw-r-- 1 tryhackme tryhackme 21 Oct 28 04:21 jaydeep
-rw-rw-r-- 1 tryhackme tryhackme 0 Oct 28 04:23 t1
-rw-rw-r-- 1 tryhackme tryhackme 0 Oct 28 04:23 t2
-rw-rw-r-- 1 tryhackme tryhackme 0 Oct 28 04:23 t3
-r--r--r-- 1 tryhackme tryhackme 0 Oct 28 04:22 test
tryhackme@linux1:~$ chmod o+x test
tryhackme@linux1:~$ ls -l
total 84
-rw-rw-r-- 1 tryhackme tryhackme 65522 May 10 2021 access.log
drwxr-xr-x 2 tryhackme tryhackme 4096 May 10 2021 folder1
drwxr-xr-x 2 tryhackme tryhackme 4096 May 10 2021 folder2
drwxr-xr-x 2 tryhackme tryhackme 4096 May 10 2021 folder3
drwxr-xr-x 2 tryhackme tryhackme 4096 May 10 2021 folder4
-rw-rw-r-- 1 tryhackme tryhackme 21 Oct 28 04:21 jaydeep
-rw-rw-r-- 1 tryhackme tryhackme 0 Oct 28 04:23 t1
-rw-rw-r-- 1 tryhackme tryhackme 0 Oct 28 04:23 t2
-rw-rw-r-- 1 tryhackme tryhackme 0 Oct 28 04:23 t3
-r--r--r-x 1 tryhackme tryhackme 0 Oct 28 04:22 test

```

```

tryhackme@linux1:~$ chmod ugo+rw test
tryhackme@linux1:~$ ls -l
total 84
-rw-rw-r-- 1 tryhackme tryhackme 65522 May 10 2021 access.log
drwxr-xr-x 2 tryhackme tryhackme 4096 May 10 2021 folder1
drwxr-xr-x 2 tryhackme tryhackme 4096 May 10 2021 folder2
drwxr-xr-x 2 tryhackme tryhackme 4096 May 10 2021 folder3
drwxr-xr-x 2 tryhackme tryhackme 4096 May 10 2021 folder4
-rw-rw-r-- 1 tryhackme tryhackme 21 Oct 28 04:21 jaydeep
-rw-rw-r-- 1 tryhackme tryhackme 0 Oct 28 04:23 t1
-rw-rw-r-- 1 tryhackme tryhackme 0 Oct 28 04:23 t2
-rw-rw-r-- 1 tryhackme tryhackme 0 Oct 28 04:23 t3
-rwxrwxrwx 1 tryhackme tryhackme 0 Oct 28 04:22 test
tryhackme@linux1:~$

```

