

Day 10 - File Permissions and File Operations

TASK 1 - Create Files

```
ubuntu@ip-172-31-13-238:~$ mkdir day10
ubuntu@ip-172-31-13-238:~$ cd day10/
ubuntu@ip-172-31-13-238:~/day10$ ls
ubuntu@ip-172-31-13-238:~/day10$ touch devops.txt
ubuntu@ip-172-31-13-238:~/day10$ ls
devops.txt
ubuntu@ip-172-31-13-238:~/day10$ echo "This is a DevOps hands on practice notes Day 10 challenge" > notes.txt
ubuntu@ip-172-31-13-238:~/day10$ ls
devops.txt  notes.txt
```

```
ubuntu@ip-172-31-13-238:~/day10$ vi script.sh
```

```
echo "Hello DevOps"
```

"script.sh" 1L, 20B

1,19All

```
ubuntu@ip-172-31-13-238:~/day10$ ls
devops.txt  notes.txt  script.sh
ubuntu@ip-172-31-13-238:~/day10$
```

Task 2 - Read files

```
ubuntu@ip-172-31-13-238:~/day10$ cat notes.txt
This is a DevOps hands on practice notes Day 10 challenge
```

```
echo "Hello DevOps"
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```
"script.sh" 1L, 20B
```

```
1,19
```

```
All
```

```
ubuntu@ip-172-31-13-238:~/day10$ head -n 5 /etc/passwd
```

```
root:x:0:0:root:/root:/bin/bash
```

```
daemon:x:1:1:daemon:/usr/sbin:/usr/sbin/nologin
```

```
bin:x:2:2:bin:/bin:/usr/sbin/nologin
```

```
sys:x:3:3:sys:/dev:/usr/sbin/nologin
```

```
sync:x:4:65534:sync:/bin:/bin/sync
```

```
ubuntu@ip-172-31-13-238:~/day10$ tail -n 5 /etc/passwd
```

```
dnsmasq:x:999:65534:dnsmasq:/var/lib/misc:/usr/sbin/nologin
```

```
tokyo:x:1001:1001:./home/tokyo:/bin/sh
```

```
berlin:x:1002:1002:./home/berlin:/bin/sh
```

```
professor:x:1003:1003:./home/professor:/bin/sh
```

```
nairobi:x:1004:1006:./home/nairobi:/bin/sh
```

```
ubuntu@ip-172-31-13-238:~/day10$
```

Task 3 - Understand Permissions

```
ubuntu@ip-172-31-13-238:~/day10$ ls -l
```

```
total 8
```

```
-rw-rw-r-- 1 ubuntu ubuntu 0 Feb 3 06:23 devops.txt
```

```
-rw-rw-r-- 1 ubuntu ubuntu 58 Feb 3 06:24 notes.txt
```

```
-rw-rw-r-- 1 ubuntu ubuntu 13 Feb 3 06:27 script.sh
```

```
ubuntu@ip-172-31-13-238:~/day10$ |
```

Task 4 - Modify Permissions

```
ubuntu@ip-172-31-13-238:~/day10$ chmod +x script.sh
ubuntu@ip-172-31-13-238:~/day10$ ls -l
total 8
-rw-rw-r-- 1 ubuntu ubuntu  0 Feb  3 06:23 devops.txt
-rw-rw-r-- 1 ubuntu ubuntu 58 Feb  3 06:24 notes.txt
-rwxrwxr-x 1 ubuntu ubuntu 13 Feb  3 06:27 script.sh
ubuntu@ip-172-31-13-238:~/day10$ chmod 444 devops.txt
ubuntu@ip-172-31-13-238:~/day10$ ls -l
total 8
-r--r--r-- 1 ubuntu ubuntu  0 Feb  3 06:23 devops.txt
-rw-rw-r-- 1 ubuntu ubuntu 58 Feb  3 06:24 notes.txt
-rwxrwxr-x 1 ubuntu ubuntu 13 Feb  3 06:27 script.sh
ubuntu@ip-172-31-13-238:~/day10$ chmod 640 notes.txt
ubuntu@ip-172-31-13-238:~/day10$ ls -l
total 8
-r--r--r-- 1 ubuntu ubuntu  0 Feb  3 06:23 devops.txt
-rw-r----- 1 ubuntu ubuntu 58 Feb  3 06:24 notes.txt
-rwxrwxr-x 1 ubuntu ubuntu 13 Feb  3 06:27 script.sh
ubuntu@ip-172-31-13-238:~/day10$ mkdir project
ubuntu@ip-172-31-13-238:~/day10$ ls
devops.txt  notes.txt  project  script.sh
ubuntu@ip-172-31-13-238:~/day10$ ls -l
total 12
-r--r--r-- 1 ubuntu ubuntu  0 Feb  3 06:23 devops.txt
-rw-r----- 1 ubuntu ubuntu 58 Feb  3 06:24 notes.txt
drwxrwxr-x 2 ubuntu ubuntu 4096 Feb  3 06:37 project
-rwxrwxr-x 1 ubuntu ubuntu 13 Feb  3 06:27 script.sh
ubuntu@ip-172-31-13-238:~/day10$ chmod 755 project
ubuntu@ip-172-31-13-238:~/day10$ ls -l
total 12
-r--r--r-- 1 ubuntu ubuntu  0 Feb  3 06:23 devops.txt
-rw-r----- 1 ubuntu ubuntu 58 Feb  3 06:24 notes.txt
drwxr-xr-x 2 ubuntu ubuntu 4096 Feb  3 06:37 project
-rwxrwxr-x 1 ubuntu ubuntu 13 Feb  3 06:27 script.sh
ubuntu@ip-172-31-13-238:~/day10$ |
```

```
ubuntu@ip-172-31-13-238:~/day10$ ./script.sh
Hello DevOps
ubuntu@ip-172-31-13-238:~/day10$
```

Task 5 - Test Permissions

```
ubuntu@ip-172-31-13-238:~/day10$ echo "Testing write permission" > devops.txt
-bash: devops.txt: Permission denied
ubuntu@ip-172-31-13-238:~/day10$ ./notes.txt
-bash: ./notes.txt: Permission denied
```