

Linux basic commands assignment

- Create a user with user group

sudo useradd -m -G devops rakib

Output:

cat /etc/group

- devops:x:1004:rakib

- rakib:x:1005:

- create two directories in user's home directory named os-concepts and ubuntu-is-the-best

mkdir os-concepts ubuntu-is-the-best

Output:

Desktop Downloads **os-concepts** Public **ubuntu-is-the-best**

Documents Music Pictures Templates Videos

- Create two files on each directory

touch file1.txt file2.txt

Output:

file1.txt file2.txt

- List the files with detailed information (including file permission)

ls -l

Output:

-rw-r--r-- 1 minhaj minhaj 0 Oct 7 17:12 file1.txt

-rw-r--r-- 1 minhaj minhaj 0 Oct 7 17:12 file2.txt

- Update file permission so that owner can read,write and group can only read and others can not do anything

chmod 640 file1.txt file2.txt

Output:

```
-rw-r----- 1 minhaj minhaj 0 Oct 7 17:12 file1.txt
-rw-r----- 1 minhaj minhaj 0 Oct 7 17:12 file2.txt
```

- Create another group

sudo groupadd developers

Output:

```
developers:x:1006:
```

- Update file ownership to the newly created group

sudo chown :developers file1.txt file2.txt

Output:

```
-rw-r----- 1 minhaj developers 0 Oct 7 17:12 file1.txt
-rw-r----- 1 minhaj developers 0 Oct 7 17:12 file2.txt
```

- Add the user to the new group

sudo usermod -aG developers minhaj

Output:

```
developers:x:1006:minhaj
```

- Create a file called crash.in (File should contain the word crash in it) in different directories and then find the file in all the locations using find command

```
echo "crash" > crash.in
```

Output:

```
cat crash.in  
crash
```

```
find ~ -type f -name 'crash.in'
```

Output:

```
/home/minhaj/crash.in  
/home/minhaj/ubuntu-is-the-best/crash.in  
/home/minhaj/os-concepts/crash.in
```

- Then, replace the lines with crash to broken to all files (use sed, xargs)

```
find ~ -type f -name 'crash.in' | xargs sed -i 's/crash/broken/g'
```

Output:

```
cat crash.in  
broken
```

Output: