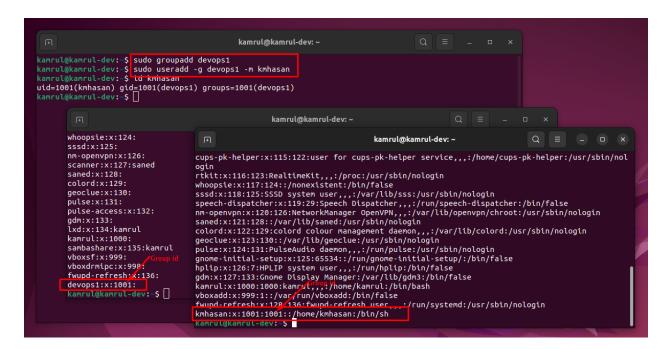
Linux Basic Commands DevOps Assignment No 3

1. Create an user with user group

- → sudo groupadd devops1
- → sudo useradd -g devops1 -m kmhasan



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

→ mkdir os-concepts ubuntu-is-the-best

```
kamrul@kamrul-dev: ~
kamrul@kamrul-dev:~$ sudo passwd kmhasan
New password:
BAD PASSWORD: The password is shorter than 8 characters
Retype new password:
passwd: password updated successfully
kamrul@kamrul-dev:~$ su kmhasan
Password:
ls: cannot open directory '.': Permission denied
$ pwd
$ cd /home
$ ls
kamrul kmhasan
$ cd /kmhasan
sh: 6: cd: can't cd to /kmhasan
$ cd kmhasan
$ mkdir os-concepts ubuntu-is-the-best
os_concepts ubuntu-is-the-best
```

3. Create two files on each directory

- \rightarrow touch file1 file2
- → touch file3 file4

```
kamrul@kamrul-dev:~

$ ls
os-concepts ubuntu-is-the-best
$ cd os-concepts
$ touch file1 file2
$ ls
file1 file2
$ cd ...
$ ls
os-concepts ubuntu-is-the-best
$ cd ubuntu-is-the-best
$ touch file3 file4
$ ls
file3 file4
```

4. List the files with detailed information (including file permission)

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```
S ls
os-concepts ubuntu-is-the-best
$ cd os-concepts
$ ls
file1 file2
$ ls -1
total 0
-гพ-г--г- 1 kmhasan devops1 0 অনুটোর 8 12:13 file1
-гพ-г--г- 1 kmhasan devops1 0 অনুটোর 8 12:13 file2
$ ls
cd ...
$ ls
os-concepts ubuntu-is-the-best
$ cd ubuntu-is-the-best
$ ls
file3 file4
$ ls -1
total 0
-гж-г--г- 1 kmhasan devops1 0 অনুটোর 8 12:14 file3
-гж-г--г- 1 kmhasan devops1 0 অনুটোর 8 12:14 file4
$ ls
-гж-г--г- 1 kmhasan devops1 0 অনুটোর 8 12:14 file4
$ ls
-гж-г--г- 1 kmhasan devops1 0 অনুটোর 8 12:14 file4
```

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

→ chmod 640 file3

6. Create another group like as devops:

→ sudo groupadd devops

```
kamrul@kamrul-dev: ~/ubuntu-is-the
kamrul@kamrul-dev: ~/ubuntu-is-the-best$ cat /etc/group
root:x:0:
daemon:x:1:
bin:x:2:

sambashare:x:135:kamrul
vboxsf:x:999:
vboxdrmipc:x:998:
fwupd-refresh:x:136:
user1:x:1001:
devops:x:1002:
kamrul@kamrul-dev: ~/ubuntu-is-the-best$
```

7. Update file ownership to the newly created group:

→ sudo chgrp devops file3

```
kamrul@kamrul-dev: ~/ubuntu-is-the-best
  ſŦΙ.
kamrul@kamrul-dev:~/ubuntu-is-the-best$ ls
file3 file4
kamrul@kamrul-dev:~/ubuntu-is-the-best$ ls -l
total 0
-rw-r---- 1 kamrul kamrul 0 অক্টোবর
                                        6 18:34 file3
-rw-rw-r-- 1 kamrul kamrul 0 অক্টোরর 6 18:34 file4
kamrul@kamrul-dev:~/ubuntu-is-the-best$ sudo chgrp devops file3
[sudo] password for kamrul:
kamrul@kamrul-dev:~/ubuntu-is-the-best$ ls -l
total 0
-rw-r---- 1 kamrul devops 0 অক্টোবর
                                         6 18:34 file3
-rw-rw-r-- 1 kamrul kamrul 0 অক্টোবর
                                         6 18:34 file4
kamrul@kamrul-dev:~/ubuntu-is-the-best$
```

8. Add the user to the new group

→ sudo gpasswd -a user1 devops

```
kamrul@kamrul-dev: ~/ubuntu-is-the-best
kamrul@kamrul-dev: ~/ubuntu-is-the-best$ sudo gpasswd -a user1 devops
Adding user user1 to group devops
kamrul@kamrul-dev: ~/ubuntu-is-the-best$ cat /etc/group
root:x:0:
daemon:x:1:
bin:x:2:
```

```
vboxsf:x:999:
vboxdrmipc:x:998:
fwupd-refresh:x:136:
user1:x:1001:
devops:x:1002:user1
kamrul@kamrul-dev:~/ubuntu-is-the-best$
```