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Kelas: Sistem Operasi B

1. Melihat permission dan akses berkas “belajar.sh”

```
dianaputri@dianaputri-VirtualBox: ~$ ls -l
total 76
drwxr-xr-x 3 dianaputri dianaputri 4096 Sep 18 16:45 BelajarFlashfatar
-rw-r--r-- 1 dianaputri dianaputri 21 Sep 21 19:59 belajar.sh
-rwxr-xr-x 1 dianaputri dianaputri 15 Sep 11 15:37 cobatiba.sh
drwxr-xr-x 2 dianaputri dianaputri 4096 Sep 4 11:47 desktop
drwxr-xr-x 2 dianaputri dianaputri 4096 Sep 7 19:51 documents
drwxr-xr-x 3 dianaputri dianaputri 4096 Sep 18 16:45 desktop
-rw-r--r-- 1 dianaputri dianaputri 8 Sep 11 16:47 hello.world.sh
drwxr-xr-x 2 dianaputri dianaputri 4096 Sep 7 11:16 images
drwxr-xr-x 2 dianaputri dianaputri 4096 Sep 11 19:59 Lanformalisp
drwxr-xr-x 2 dianaputri dianaputri 4096 Sep 4 11:47 music
-rw-r--r-- 1 dianaputri dianaputri 4 Sep 7 19:59 Mynotes
-rw-r--r-- 1 dianaputri dianaputri 109 Sep 18 19:05 permenuray.sh
-rw-r--r-- 1 dianaputri dianaputri 89 Sep 18 19:54 percolanstring.sh
drwxr-xr-x 3 dianaputri dianaputri 4096 Sep 8 19:49 Pictures
drwxr-xr-x 2 dianaputri dianaputri 4096 Sep 4 11:42 Public
-rw-r--r-- 1 dianaputri dianaputri 70 Sep 11 16:44 sample.sh
drwxr-xr-x 1 dianaputri dianaputri 4096 Sep 7 19:37 sapara
drwxr-xr-x 2 dianaputri dianaputri 4096 Sep 4 11:47 Templates
drwxr-xr-x 2 dianaputri dianaputri 4096 Sep 18 11:16 Topologi
drwxr-xr-x 2 dianaputri dianaputri 4096 Sep 4 11:42 Upload
dianaputri@dianaputri-VirtualBox: ~$ ./belajar.sh
Kelas: Sistem B
dianaputri@dianaputri-VirtualBox: ~$
```

2. Management user “sinthya” dan “putri”

```
dianaputri@dianaputri-VirtualBox: /home$
dianaputri@dianaputri-VirtualBox: ~$ sudo adduser sinthya
[sudo] password for dianaputri:
Adding user `sinthya' ...
Adding new group `sinthya' (1001) ...
Adding new user `sinthya' (1001) with group `sinthya' ...
Creating home directory `/home/sinthya' ...
Copying files from `/etc/skel' ...
Enter new UNIX password:
Retype new UNIX password:
passwd: password updated successfully
Changing the user information for sinthya
Enter the information to press RETURN for the default
Full Name []:
Home directory []:
Work Phone []:
Home Phone []:
Other []:
Is the information correct? [Y/n] y
dianaputri@dianaputri-VirtualBox: ~$ id /home/
dianaputri@dianaputri-VirtualBox: /home$ cd
dianaputri: luffy: sinthya
dianaputri@dianaputri-VirtualBox: /home$ cd
dianaputri@dianaputri-VirtualBox: ~$ sudo adduser putri
Adding user `putri' ...
Adding new group `putri' (1002) ...
Adding new user `putri' (1002) with group `putri' ...
Creating home directory `/home/putri' ...
Copying files from `/etc/skel' ...
Enter new UNIX password:
Retype new UNIX password:
passwd: password updated successfully
```

```
Root Number []:
Work Phone []:
Home Phone []:
Other []:
Is the information correct? [Y/n] y
diampetri@diampetri-VirtualBox:~$ cd /home/
diampetri@diampetri-VirtualBox:~/home$ ls
diampetri  sully  vittiya
diampetri@diampetri-VirtualBox:~/home$ cd
diampetri@diampetri-VirtualBox:~$ sudo adduser putri
Adding user 'putri' ...
Adding new group 'putri' (1000) ...
Adding new user 'putri' (1000) with group 'putri' ...
Creating home directory '/home/putri' ...
Copying files from '/etc/skel' ...
Enter new UNIX password:
Retype new UNIX password:
passwd: password updated successfully
Changing the user information for putri
Enter the new value, or press ENTER for the default
Full Name []:
Root Number []:
Work Phone []:
Home Phone []:
Other []:
Is the information correct? [Y/n] y
diampetri@diampetri-VirtualBox:~$ id /home/
diampetri@diampetri-VirtualBox:~/home$ ls
diampetri  sully  putri  vittiya
diampetri@diampetri-VirtualBox:~/home$ cd
diampetri@diampetri-VirtualBox:~$ |
```

3. Management group

```
diampetri@diampetri-VirtualBox:~$ sudo addgroup kis_sisop
[sudo] password for diampetri:
Adding group 'kis_sisop' (GID 1004) ...
Done.
diampetri@diampetri-VirtualBox:~$ sudo adduser sinta/kis_sisop
Adding user 'sinta/kis' to group 'kis_sisop' ...
Adding user sinta/kis to group kis_sisop
Done.
diampetri@diampetri-VirtualBox:~$ sudo adduser putri/kis_sisop
Adding user 'putri/kis' to group 'kis_sisop' ...
Adding user putri/kis to group kis_sisop
Done.
diampetri@diampetri-VirtualBox:~$ groupadd sinta/kis
sinta/kis  sinta/kis
diampetri@diampetri-VirtualBox:~$ groupadd putri/kis
putri/kis  putri/kis
diampetri@diampetri-VirtualBox:~$ |
```

4. Mengubah owner dan group pada sebuah file

```
dianggaptri@dianggaptri-VirtualBox: ~$ sudo chown sindyas belajar.sh
[sindy] password for dianggaptri:
dianggaptri@dianggaptri-VirtualBox: ~$ ls -l belajar.sh
ls: cannot access './': No such file or directory
ls: cannot access './': No such file or directory
belajar.sh
dianggaptri@dianggaptri-VirtualBox: ~$ ls -l belajar.sh
-rwxrwx--- 1 sindyas dianggaptri 71 Sep 21 09:59 belajar.sh
dianggaptri@dianggaptri-VirtualBox: ~$ sudo chown kis sisyop belajar.sh
dianggaptri@dianggaptri-VirtualBox: ~$ ls -l belajar.sh
-rwxrwx--- 1 sindyas kis sisyop 21 Sep 21 09:59 belajar.sh
dianggaptri@dianggaptri-VirtualBox: ~$
```

```
dianggaptri@dianggaptri-VirtualBox: ~$ ./belajar.sh
bash: ./belajar.sh: Permission denied
dianggaptri@dianggaptri-VirtualBox: ~$ sudo chown dianggaptri belajar.sh && sudo chgrp dianggaptri belajar.sh
[sindy] password for dianggaptri:
chgrp: cannot access 'belajar.sh': No such file or directory
dianggaptri@dianggaptri-VirtualBox: ~$ sudo chown dianggaptri belajar.sh && sudo chgrp dianggaptri belajar.sh
dianggaptri@dianggaptri-VirtualBox: ~$ ls -l belajar.sh
-rwxrwx--- 1 dianggaptri dianggaptri 71 Sep 21 09:59 belajar.sh
dianggaptri@dianggaptri-VirtualBox: ~$ ./belajar.sh
Kelas Sisyop N
dianggaptri@dianggaptri-VirtualBox: ~$
```

5. Menghapus user dan group

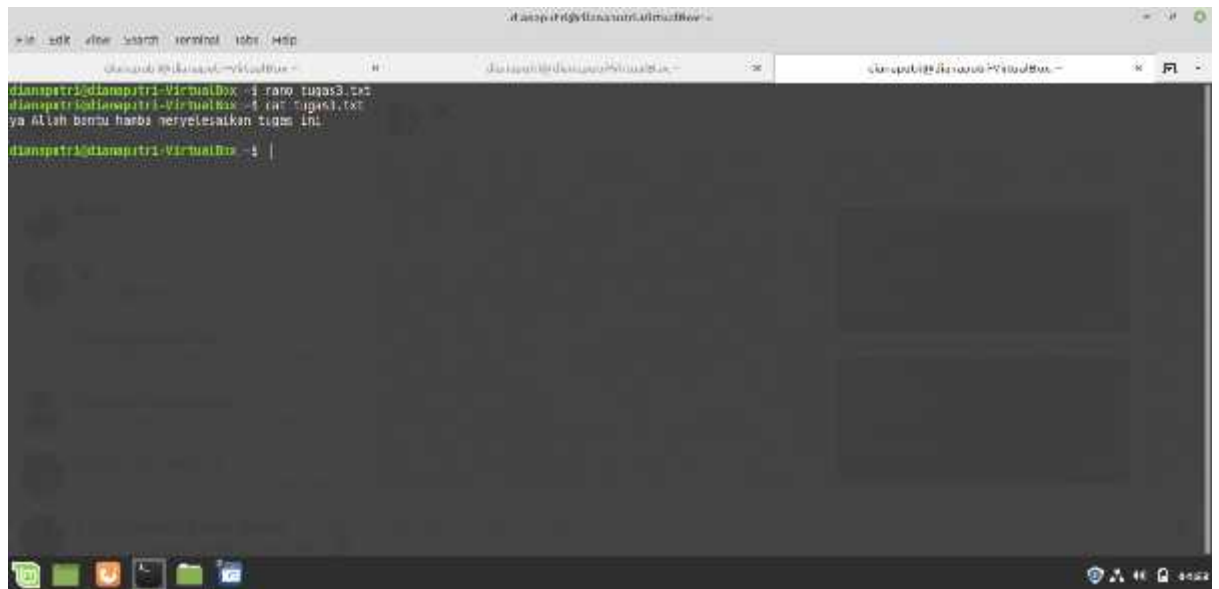
```
diampetri@diampetri-VirtualBox: ~$ sudo deluser --remove-home sithya
[sudo] password for diampetri:
Locking 'or' files to backup/restore ...
Removing files ...
Removing user 'sithya' ...
Warning: group 'sithya' has no more members.
Done.
diampetri@diampetri-VirtualBox: ~$ cd /home/
diampetri@diampetri-VirtualBox: /home$ ls
diampetri  satty  putri
diampetri@diampetri-VirtualBox: /home$ cd
diampetri@diampetri-VirtualBox: ~$ sudo deluser --remove-home putri
Locking 'or' files to backup/restore ...
Removing files ...
Removing user 'putri' ...
Warning: group 'putri' has no more members.
Done.
diampetri@diampetri-VirtualBox: ~$ cd /home/
diampetri@diampetri-VirtualBox: /home$ ls
diampetri  satty
diampetri@diampetri-VirtualBox: /home$ cd
diampetri@diampetri-VirtualBox: ~$ sudo delgroup kls_klsop
Removing group 'kls_klsop' ...
Done.
diampetri@diampetri-VirtualBox: ~$
```

Latihan soal!

- a. Membuat dua user yaitu “kageyama” dan “tobio”

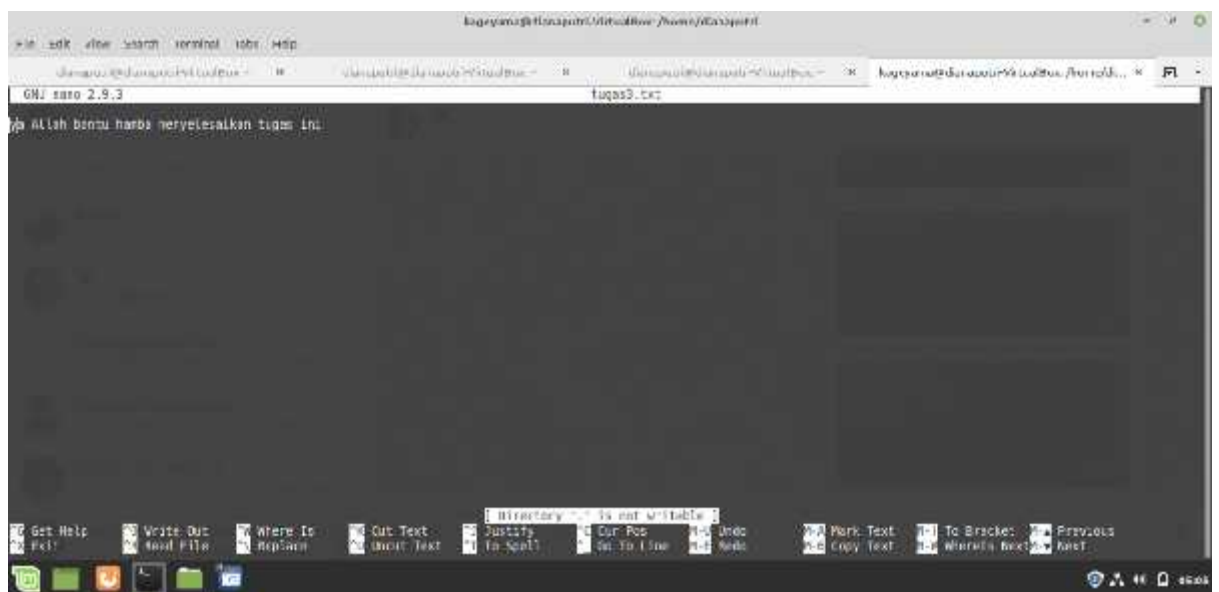
```
diannaputri@diannaputri-VirtualBox:~$ sudo adduser kageyasa
[sudo] password for diannaputri:
Adding user `kageyasa' ...
Adding new group `kageyasa' (1001) ...
Adding new user `kageyasa' (1001) with group `kageyasa' ...
Creating home directory `/home/kageyasa' ...
Copying files from `/etc/skel' ...
Enter new UNIX password:
Retype new UNIX password:
passwd: password updated successfully
Changing the user information for kageyasa
Enter the new value, or press ENTER for the default
  Full Name []:
  Room Number []:
  Work Phone []:
  Home Phone []:
  Title []:
Is the information correct? [Y/n] Y
diannaputri@diannaputri-VirtualBox:~$ sudo adduser tobiu
Adding user `tobiu' ...
Adding new group `tobiu' (1002) ...
Adding new user `tobiu' (1002) with group `tobiu' ...
Creating home directory `/home/tobiu' ...
Copying files from `/etc/skel' ...
Enter new UNIX password:
Retype new UNIX password:
passwd: password updated successfully
Changing the user information for tobiu
Enter the new value, or press ENTER for the default
  Full Name []:
  Room Number []:
  Work Phone []:
  Home Phone []:
  Title []:
Is the information correct? [Y/n] Y
diannaputri@diannaputri-VirtualBox:~$
```

- b. membuat file txt dengan nama “tugas3.txt”



A terminal window titled "dianapetri@kali:~/kali\$". The user enters the command "touch tugas3.txt", followed by "cat tugas3.txt", and then "echo 'ya Allah bantu harbi menyelesaikan tugas ini'". The terminal shows the file "tugas3.txt" being created and its contents being displayed.

```
dianapetri@kali:~/kali$ touch tugas3.txt
dianapetri@kali:~/kali$ cat tugas3.txt
ya Allah bantu harbi menyelesaikan tugas ini
dianapetri@kali:~/kali$
```



A terminal window titled "kali@kali:~/kali\$". The user enters the command "cat tugas3.txt", followed by "echo 'ya Allah bantu harbi menyelesaikan tugas ini'". The terminal shows the file "tugas3.txt" being edited and its contents being displayed.

```
kali@kali:~/kali$ cat tugas3.txt
ya Allah bantu harbi menyelesaikan tugas ini
kali@kali:~/kali$ echo 'ya Allah bantu harbi menyelesaikan tugas ini'
```

- c. Membuat grup dengan nama “tugas3” dan menambahkan dua user kedalam grup tersebut

```
diannepatri@diannepatri-VirtualBox: ~$ sudo addgroup tugas3
[sudo] password for diannepatri:
Adding group 'tugas3' (GID 1004) ...
Done.

diannepatri@diannepatri-VirtualBox: ~$ sudo adduser kageyama
Info: addgrp: command not found
diannepatri@diannepatri-VirtualBox: ~$ sudo adduser kageyama tugas3
adduser: the user 'kageyama' does not exist
diannepatri@diannepatri-VirtualBox: ~$ sudo adduser kageyama tugas3
Adding user 'kageyama' to group 'tugas3' ..
Adding user kageyama to group tugas3
Done.

diannepatri@diannepatri-VirtualBox: ~$ sudo adduser tobias tugas3
Adding user 'tobias' to group 'tugas3' ..
Adding user tobias to group tugas3
Done.

diannepatri@diannepatri-VirtualBox: ~$
```

- d. Mengubah akses pada user kageyama menjadi read and write dengan mengganti owner dan grup terlebih dahulu

```
kageyama@diannepatri-VirtualBox: /home/diannepatri$
diannepatri@diannepatri-VirtualBox: ~$ ls -l tugas3.txt
-rw-rw-rw- 1 diannepatri diannepatri 48 Sep 26 04:46 tugas3.txt
diannepatri@diannepatri-VirtualBox: ~$ sudo chown kageyama tugas3.txt && sudo chgrp tugas3 tugas3.txt
[sudo] password for diannepatri:
diannepatri@diannepatri-VirtualBox: ~$ ls -l tugas3.txt
-rw-rw-rw- 1 kageyama tugas3 48 Sep 26 04:46 tugas3.txt
diannepatri@diannepatri-VirtualBox: ~$ ls kageyama
ls: command not found
diannepatri@diannepatri-VirtualBox: ~$ su kageyama
Password:
kageyama@diannepatri-VirtualBox: /home/diannepatri$ ./tugas3.txt
./tugas3.txt: line 1: ps: command not found
kageyama@diannepatri-VirtualBox: /home/diannepatri$ cat tugas3.txt
ya Allah Allah Allah menyatukan tugas itu
kageyama@diannepatri-VirtualBox: /home/diannepatri$ rm tugas3.txt
kageyama@diannepatri-VirtualBox: /home/diannepatri$ cd /dev && cp /dev/tasks3.txt
kageyama@diannepatri-VirtualBox: /home/diannepatri$ ls -l tugas3.txt
-rw-rw-rw- 1 kageyama tugas3 48 Sep 26 04:46 tugas3.txt
kageyama@diannepatri-VirtualBox: /home/diannepatri$
```

- e. Mengganti owner dan grup terlebih dahulu


```
dianggaptri@dianggaptri-VirtualBox: ~$ ls -l tugas3.txt
-rw-rw-r-- 1 dianggaptri dianggaptri 46 Sep 28 06:44 tugas3.txt
dianggaptri@dianggaptri-VirtualBox: ~$ sudo chown tobio tugas3.txt && sudo chgrp tugas3 tugas3.txt
[ubah] password for dianggaptri:
dianggaptri@dianggaptri-VirtualBox: ~$ ls -l
total 88
drwxr-xr-x 3 dianggaptri dianggaptri 4096 Sep 11 16:40 BelajarTechBesar
-rw-rw-r-- 1 dianggaptri dianggaptri 21 Sep 21 09:59 belajar.sh
-rw-rw-r-- 1 dianggaptri dianggaptri 15 Sep 11 06:37 cobacoba.sh
drwxr-xr-x 2 dianggaptri dianggaptri 4096 Sep 4 11:47 Docker
drwxr-xr-x 2 dianggaptri dianggaptri 4096 Sep 7 18:51 Dockerfile
drwxr-xr-x 3 dianggaptri dianggaptri 4096 Sep 11 16:45 Dockerfile
-rw-rw-r-- 1 dianggaptri dianggaptri 8 Sep 11 06:47 hello_world.sh
drwxr-xr-x 2 dianggaptri dianggaptri 4096 Sep 7 11:16 Kumpulan
drwxr-xr-x 2 dianggaptri dianggaptri 4096 Sep 29 04:43 Laporan
drwxr-xr-x 2 dianggaptri dianggaptri 4096 Sep 4 11:47 Rata
-rw-rw-r-- 1 dianggaptri dianggaptri 4 Sep 7 19:59 Rincian
-rw-rw-r-- 1 dianggaptri dianggaptri 169 Sep 14 20:05 perbandinganray.sh
-rw-rw-r-- 1 dianggaptri dianggaptri 89 Sep 14 19:54 perbandinganray.sh
drwxr-xr-x 2 dianggaptri dianggaptri 4096 Sep 4 10:00 Rintan
drwxr-xr-x 2 dianggaptri dianggaptri 4096 Sep 4 11:42 Rintan
-rw-rw-r-- 1 dianggaptri dianggaptri 79 Sep 11 06:43 Rintan.sh
-rw-rw-r-- 1 dianggaptri dianggaptri 10 Sep 3 18:37 Rintan
drwxr-xr-x 2 dianggaptri dianggaptri 4096 Sep 4 11:52 Tugas
-rw-rw-r-- 1 tobio tugas3 46 Sep 28 06:44 tugas3.txt
drwxr-xr-x 7 dianggaptri dianggaptri 4096 Sep 11 11:16 Tugas
drwxr-xr-x 2 dianggaptri dianggaptri 4096 Sep 4 11:47 Ujian
dianggaptri@dianggaptri-VirtualBox: ~$
```

f. Kemudian mengubah akses pada user tobio menjadi read saja

```
dianggaptri@dianggaptri-VirtualBox: ~$ su tobio
Password:
tobio@dianggaptri-VirtualBox: /home/dianggaptri$ ls -l tugas3.txt
-rw-rw-r-- 1 tobio tugas3 46 Sep 28 06:44 tugas3.txt
tobio@dianggaptri-VirtualBox: /home/dianggaptri$ chmod 444 tugas3.txt
tobio@dianggaptri-VirtualBox: /home/dianggaptri$ ls -l tugas3.txt
-rw-rw-r-- 1 tobio tugas3 46 Sep 28 06:44 tugas3.txt
tobio@dianggaptri-VirtualBox: /home/dianggaptri$ cat tugas3.txt
ya milih benci harba heryetakaan tiga ini
tobio@dianggaptri-VirtualBox: /home/dianggaptri$
```

g. Mencoba mengakses write pada file tugas3.txt di user tobio namun tidak bisa

