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Hasil *Screenshot*

Percobaan 1 : Izin Akses

1. Melihat identitas melalui `etc/passwd` atau `etc/group`

2. Memeriksa direktori home

3. Mengubah izin akses (`chmod`)

```
sailor_moon@tata-VirtualBox:~$ chmod a=x f2
sailor_moon@tata-VirtualBox:~$ chmod u+x,g-r,o=w f3
sailor_moon@tata-VirtualBox:~$ ls -l
total 36
drwxr-xr-x 2 sailor_moon sailor_moon 4096 Sep 16 07:40 Desktop
drwxr-xr-x 3 sailor_moon sailor_moon 4096 Sep 16 21:04 Documents
drwxr-xr-x 2 sailor_moon sailor_moon 4096 Sep 16 07:42 Downloads
-rwx-w---- 1 sailor_moon sailor_moon    0 Sep 17 14:51 f1
---x--x--x 1 sailor_moon sailor_moon    0 Sep 17 14:51 f2
-rwx-w--w- 1 sailor_moon sailor_moon    0 Sep 17 14:51 f3
drwxr-xr-x 2 sailor_moon sailor_moon 4096 Sep 16 07:40 Music
drwxr-xr-x 2 sailor_moon sailor_moon 4096 Sep 16 07:40 Pictures
drwxr-xr-x 2 sailor_moon sailor_moon 4096 Sep 16 07:40 Public
drwx------ 4 sailor_moon sailor_moon 4096 Sep 16 07:41 snap
drwxr-xr-x 2 sailor_moon sailor_moon 4096 Sep 16 07:40 Templates
drwxr-xr-x 2 sailor_moon sailor_moon 4096 Sep 16 07:40 Videos
```

```
sailor_moon@tata-VirtualBox:~$ chmod 751 f1
sailor_moon@tata-VirtualBox:~$ chmod 624 f2
sailor_moon@tata-VirtualBox:~$ chmod 430 f3
sailor_moon@tata-VirtualBox:~$
sailor_moon@tata-VirtualBox:~$ ls -l
total 36
drwxr-xr-x 2 sailor_moon sailor_moon 4096 Sep 16 07:40 Desktop
drwxr-xr-x 3 sailor_moon sailor_moon 4096 Sep 16 21:04 Documents
drwxr-xr-x 2 sailor_moon sailor_moon 4096 Sep 16 07:42 Downloads
-rwxr-x--x 1 sailor_moon sailor_moon    0 Sep 17 14:51 f1
-rw--w-r-- 1 sailor_moon sailor_moon    0 Sep 17 14:51 f2
-r---wx--- 1 sailor_moon sailor_moon    0 Sep 17 14:51 f3
drwxr-xr-x 2 sailor_moon sailor_moon 4096 Sep 16 07:40 Music
drwxr-xr-x 2 sailor_moon sailor_moon 4096 Sep 16 07:40 Pictures
drwxr-xr-x 2 sailor_moon sailor_moon 4096 Sep 16 07:40 Public
drwx------ 4 sailor_moon sailor_moon 4096 Sep 16 07:41 snap
drwxr-xr-x 2 sailor_moon sailor_moon 4096 Sep 16 07:40 Templates
drwxr-xr-x 2 sailor_moon sailor_moon 4096 Sep 16 07:40 Videos
```

4. Menguji izin akses (chmod)

```
sailor_moon@tata-VirtualBox:~$ echo "belajar chmod" >> f1
sailor_moon@tata-VirtualBox:~$ echo "belajar chmod" >> f2
sailor_moon@tata-VirtualBox:~$ echo "belajar chmod" >> f3
bash: f3: Permission denied
```

5. Chown

```
sailor_moon@tata-VirtualBox:~$ sudo adduser nezuko_chan
[sudo] password for sailor_moon:
Adding user `nezuko_chan' ...
Adding new group `nezuko_chan' (1001) ...
Adding new user `nezuko_chan' (1001) with group `nezuko_chan' ...
Creating home directory `/home/nezuko_chan' ...
Copying files from `/etc/skel' ...
```

```
New password:
Retype new password:
passwd: password updated successfully
Changing the user information for nezuko_chan
Enter the new value, or press ENTER for the default
        Full Name []:
        Room Number []:
        Work Phone []:
        Home Phone []:
        Other []:
```

```
Is the information correct? [Y/n] Y
sailor_moon@tata-VirtualBox:~$ sudo addgroup kamado
Adding group `kamado' (GID 1002) ...
Done.
sailor_moon@tata-VirtualBox:~$ sudo chown nezuko_chan f1
[sudo] password for sailor_moon:
sailor_moon@tata-VirtualBox:~$ sudo chown nezuko_chan:kamado f2
sailor_moon@tata-VirtualBox:~$ sudo chown nezuko_chan:kamado f1 f3
sailor_moon@tata-VirtualBox:~$ ls -l
total 44
drwxr-xr-x 2 sailor_moon sailor_moon 4096 Sep 16 07:40 Desktop
drwxr-xr-x 3 sailor_moon sailor_moon 4096 Sep 16 21:04 Documents
drwxr-xr-x 2 sailor_moon sailor_moon 4096 Sep 16 07:42 Downloads
-rwxr-x--x 1 nezuko_chan kamado        14 Sep 17 14:55 f1
-rw--w-r-- 1 nezuko_chan kamado        14 Sep 17 14:55 f2
-r---wx--- 1 nezuko_chan kamado         0 Sep 17 14:51 f3
drwxr-xr-x 2 sailor_moon sailor_moon 4096 Sep 16 07:40 Music
drwxr-xr-x 2 sailor_moon sailor_moon 4096 Sep 16 07:40 Pictures
drwxr-xr-x 2 sailor_moon sailor_moon 4096 Sep 16 07:40 Public
drwx------ 4 sailor_moon sailor_moon 4096 Sep 16 07:41 snap
drwxr-xr-x 2 sailor_moon sailor_moon 4096 Sep 16 07:40 Templates
drwxr-xr-x 2 sailor_moon sailor_moon 4096 Sep 16 07:40 Videos
```

6. Chgrp

```
sailor_moon@tata-VirtualBox:~$ grep kamado /etc/group
kamado:x:1002:
sailor_moon@tata-VirtualBox:~$ #chgrp kamado f1
sailor_moon@tata-VirtualBox:~$ ls -l
total 44
drwxr-xr-x 2 sailor_moon sailor_moon 4096 Sep 16 07:40 Desktop
drwxr-xr-x 3 sailor_moon sailor_moon 4096 Sep 16 21:04 Documents
drwxr-xr-x 2 sailor_moon sailor_moon 4096 Sep 16 07:42 Downloads
-rwxr-x--x 1 nezuko_chan kamado        14 Sep 17 14:55 f1
-rw--w-r-- 1 nezuko_chan kamado        14 Sep 17 14:55 f2
-r---wx--- 1 nezuko_chan kamado         0 Sep 17 14:51 f3
drwxr-xr-x 2 sailor_moon sailor_moon 4096 Sep 16 07:40 Music
drwxr-xr-x 2 sailor_moon sailor_moon 4096 Sep 16 07:40 Pictures
drwxr-xr-x 2 sailor_moon sailor_moon 4096 Sep 16 07:40 Public
drwx------ 4 sailor_moon sailor_moon 4096 Sep 16 07:41 snap
drwxr-xr-x 2 sailor_moon sailor_moon 4096 Sep 16 07:40 Templates
drwxr-xr-x 2 sailor_moon sailor_moon 4096 Sep 16 07:40 Videos
sailor_moon@tata-VirtualBox:~$
```

Percobaan 2 : Umask *(User file-creation mode mask)*

1. Menentukan izin akses awal pada saat file atau direktori dibuat

```
sailor_moon@tata-VirtualBox:~$ touch myfile
sailor_moon@tata-VirtualBox:~$ ls -l myfile
-rw-rw-r-- 1 sailor_moon sailor_moon 0 Sep 17 15:20 myfile
```

2. Melihat nilai umask

```
sailor_moon@tata-VirtualBox:~$ umask
0002
```

3. Modifikasi nilai umask

```
sailor_moon@tata-VirtualBox:~$ umask 027
sailor_moon@tata-VirtualBox:~$ umask
0027
sailor_moon@tata-VirtualBox:~$ touch newfile
sailor_moon@tata-VirtualBox:~$ mkdir mydir
sailor_moon@tata-VirtualBox:~$ ls -l
total 48
drwxr-xr-x 2 sailor_moon sailor_moon 4096 Sep 16 07:40 Desktop
drwxr-xr-x 3 sailor_moon sailor_moon 4096 Sep 16 21:04 Documents
drwxr-xr-x 2 sailor_moon sailor_moon 4096 Sep 16 07:42 Downloads
-rwxr-x--x 1 nezuko_chan kamado        14 Sep 17 14:55 f1
-rw--w-r-- 1 nezuko_chan kamado        14 Sep 17 14:55 f2
-r---wx--- 1 nezuko_chan kamado         0 Sep 17 14:51 f3
drwxr-xr-x 2 sailor_moon sailor_moon 4096 Sep 16 07:40 Music
drwxr-x--- 2 sailor_moon sailor_moon 4096 Sep 17 15:21 mydir
-rw-rw-r-- 1 sailor_moon sailor_moon    0 Sep 17 15:20 myfile
-rw-r----- 1 sailor_moon sailor_moon    0 Sep 17 15:21 newfile
drwxr-xr-x 2 sailor_moon sailor_moon 4096 Sep 16 07:40 Pictures
drwxr-xr-x 2 sailor_moon sailor_moon 4096 Sep 16 07:40 Public
drwx------ 4 sailor_moon sailor_moon 4096 Sep 16 07:41 snap
drwxr-xr-x 2 sailor_moon sailor_moon 4096 Sep 16 07:40 Templates
drwxr-xr-x 2 sailor_moon sailor_moon 4096 Sep 16 07:40 Videos
```

```
sailor_moon@tata-VirtualBox:~$ umask 077
sailor_moon@tata-VirtualBox:~$ touch xfile
sailor_moon@tata-VirtualBox:~$ mkdir xdir
sailor_moon@tata-VirtualBox:~$ ls -l
total 52
drwxr-xr-x 2 sailor_moon sailor_moon 4096 Sep 16 07:40 Desktop
drwxr-xr-x 3 sailor_moon sailor_moon 4096 Sep 16 21:04 Documents
drwxr-xr-x 2 sailor_moon sailor_moon 4096 Sep 16 07:42 Downloads
-rwxr-x--x 1 nezuko_chan kamado        14 Sep 17 14:55 f1
-rw--w-r-- 1 nezuko_chan kamado        14 Sep 17 14:55 f2
-r---wx--- 1 nezuko_chan kamado         0 Sep 17 14:51 f3
drwxr-xr-x 2 sailor_moon sailor_moon 4096 Sep 16 07:40 Music
drwxr-x--- 2 sailor_moon sailor_moon 4096 Sep 17 15:21 mydir
-rw-rw-r-- 1 sailor_moon sailor_moon    0 Sep 17 15:20 myfile
-rw-r----- 1 sailor_moon sailor_moon    0 Sep 17 15:21 newfile
drwxr-xr-x 2 sailor_moon sailor_moon 4096 Sep 16 07:40 Pictures
drwxr-xr-x 2 sailor_moon sailor_moon 4096 Sep 16 07:40 Public
drwx------ 4 sailor_moon sailor_moon 4096 Sep 16 07:41 snap
drwxr-xr-x 2 sailor_moon sailor_moon 4096 Sep 16 07:40 Templates
drwxr-xr-x 2 sailor_moon sailor_moon 4096 Sep 16 07:40 Videos
drwx------ 2 sailor_moon sailor_moon 4096 Sep 17 15:21 xdir
-rw------- 1 sailor_moon sailor_moon    0 Sep 17 15:21 xfile
sailor_moon@tata-VirtualBox:~$
```

Percobaan 3 : Link

1. Hard Link

```
sailor_moon@tata-VirtualBox:~$ echo "Hallo apa kabar?" > halo.txt
sailor_moon@tata-VirtualBox:~$ ls -l
total 56
drwxr-xr-x 2 sailor_moon sailor_moon 4096 Sep 16 07:40 Desktop
drwxr-xr-x 3 sailor_moon sailor_moon 4096 Sep 16 21:04 Documents
drwxr-xr-x 2 sailor_moon sailor_moon 4096 Sep 16 07:42 Downloads
-rwxr-x--x 1 nezuko_chan kamado        14 Sep 17 14:55 f1
-rw--w-r-- 1 nezuko_chan kamado        14 Sep 17 14:55 f2
-r---wx--- 1 nezuko_chan kamado         0 Sep 17 14:51 f3
-rw-rw-r-- 1 sailor_moon sailor_moon   17 Sep 17 18:57 halo.txt
drwxr-xr-x 2 sailor_moon sailor_moon 4096 Sep 16 07:40 Music
drwxr-x--- 2 sailor_moon sailor_moon 4096 Sep 17 15:21 mydir
-rw-rw-r-- 1 sailor_moon sailor_moon    0 Sep 17 15:20 myfile
-rw-r----- 1 sailor_moon sailor_moon    0 Sep 17 15:21 newfile
drwxr-xr-x 2 sailor_moon sailor_moon 4096 Sep 16 07:40 Pictures
drwxr-xr-x 2 sailor_moon sailor_moon 4096 Sep 16 07:40 Public
drwx------ 4 sailor_moon sailor_moon 4096 Sep 16 07:41 snap
drwxr-xr-x 2 sailor_moon sailor_moon 4096 Sep 16 07:40 Templates
drwxr-xr-x 2 sailor_moon sailor_moon 4096 Sep 16 07:40 Videos
drwx------ 2 sailor_moon sailor_moon 4096 Sep 17 15:21 xdir
-rw------- 1 sailor_moon sailor_moon    0 Sep 17 15:21 xfile
sailor_moon@tata-VirtualBox:~$ ln halo.txt hardlink
sailor_moon@tata-VirtualBox:~$ ls -l
total 60
drwxr-xr-x 2 sailor_moon sailor_moon 4096 Sep 16 07:40 Desktop
drwxr-xr-x 3 sailor_moon sailor_moon 4096 Sep 16 21:04 Documents
drwxr-xr-x 2 sailor_moon sailor_moon 4096 Sep 16 07:42 Downloads
-rwxr-x--x 1 nezuko_chan kamado        14 Sep 17 14:55 f1
-rw--w-r-- 1 nezuko_chan kamado        14 Sep 17 14:55 f2
-r---wx--- 1 nezuko_chan kamado         0 Sep 17 14:51 f3
-rw-rw-r-- 2 sailor_moon sailor_moon   17 Sep 17 18:57 halo.txt
-rw-rw-r-- 2 sailor_moon sailor_moon   17 Sep 17 18:57 hardlink
drwxr-xr-x 2 sailor_moon sailor_moon 4096 Sep 16 07:40 Music
drwxr-x--- 2 sailor_moon sailor_moon 4096 Sep 17 15:21 mydir
-rw-rw-r-- 1 sailor_moon sailor_moon    0 Sep 17 15:20 myfile
-rw-r----- 1 sailor_moon sailor_moon    0 Sep 17 15:21 newfile
drwxr-xr-x 2 sailor_moon sailor_moon 4096 Sep 16 07:40 Pictures
drwxr-xr-x 2 sailor_moon sailor_moon 4096 Sep 16 07:40 Public
drwx------ 4 sailor_moon sailor_moon 4096 Sep 16 07:41 snap
drwxr-xr-x 2 sailor_moon sailor_moon 4096 Sep 16 07:40 Templates
drwxr-xr-x 2 sailor_moon sailor_moon 4096 Sep 16 07:40 Videos
drwx------ 2 sailor_moon sailor_moon 4096 Sep 17 15:21 xdir
-rw------- 1 sailor_moon sailor_moon    0 Sep 17 15:21 xfile
sailor_moon@tata-VirtualBox:~$ cat hardlink
Hallo apa kabar?
sailor_moon@tata-VirtualBox:~$ mkdir newdir
sailor_moon@tata-VirtualBox:~$ ln hardlink newdir/halo.juga
sailor_moon@tata-VirtualBox:~$ cat newdir/halo.juga
Hallo apa kabar?
sailor_moon@tata-VirtualBox:~$ ls -l newdir/halo.juga
-rw-rw-r-- 3 sailor_moon sailor_moon 17 Sep 17 18:57 newdir/halo.juga
```

2. Soft Link

```
sailor_moon@tata-VirtualBox:~$ ln -s halo.txt softlink
sailor_moon@tata-VirtualBox:~$ ls -l
total 64
drwxr-xr-x 2 sailor_moon sailor_moon 4096 Sep 16 07:40 Desktop
drwxr-xr-x 3 sailor_moon sailor_moon 4096 Sep 16 21:04 Documents
drwxr-xr-x 2 sailor_moon sailor_moon 4096 Sep 16 07:42 Downloads
-rwxr-x--x 1 nezuko_chan kamado        14 Sep 17 14:55 f1
-rw--w-r-- 1 nezuko_chan kamado        14 Sep 17 14:55 f2
-r---wx--- 1 nezuko_chan kamado         0 Sep 17 14:51 f3
-rw-rw-r-- 3 sailor_moon sailor_moon   17 Sep 17 18:57 halo.txt
-rw-rw-r-- 3 sailor_moon sailor_moon   17 Sep 17 18:57 hardlink
drwxr-xr-x 2 sailor_moon sailor_moon 4096 Sep 16 07:40 Music
drwxr-x--- 2 sailor_moon sailor_moon 4096 Sep 17 15:21 mydir
-rw-rw-r-- 1 sailor_moon sailor_moon    0 Sep 17 15:20 myfile
drwxrwxr-x 2 sailor_moon sailor_moon 4096 Sep 17 18:58 newdir
-rw-r----- 1 sailor_moon sailor_moon    0 Sep 17 15:21 newfile
drwxr-xr-x 2 sailor_moon sailor_moon 4096 Sep 16 07:40 Pictures
drwxr-xr-x 2 sailor_moon sailor_moon 4096 Sep 16 07:40 Public
drwx------ 4 sailor_moon sailor_moon 4096 Sep 16 07:41 snap
lrwxrwxrwx 1 sailor_moon sailor_moon    8 Sep 17 19:01 softlink -> halo.txt
drwxr-xr-x 2 sailor_moon sailor_moon 4096 Sep 16 07:40 Templates
drwxr-xr-x 2 sailor_moon sailor_moon 4096 Sep 16 07:40 Videos
drwx------ 2 sailor_moon sailor_moon 4096 Sep 17 15:21 xdir
-rw------- 1 sailor_moon sailor_moon    0 Sep 17 15:21 xfile
sailor_moon@tata-VirtualBox:~$ cat softlink
Hallo apa kabar?
```

3. Menghapus Link

```
sailor_moon@tata-VirtualBox:~$ rm halo.txt
sailor_moon@tata-VirtualBox:~$ cat hardlink
Hallo apa kabar?
sailor_moon@tata-VirtualBox:~$ cat softlink
cat: softlink: No such file or directory
sailor_moon@tata-VirtualBox:~$
```