Nama   : Levina Gunawan

NIM   : 201402052

Kelas   : KOM A – TI

Mata Kuliah   : Praktikum Sistem Administrasi Server

Topik   : Manajemen File dan User

1. Buat 3 user baru
   a. User dengan NIM yang Bernama user_201402052

```
levina_201402052@levina201402052:~$ sudo adduser 201402052
adduser: Please enter a username matching the regular expression configured
via the NAME_REGEX[_SYSTEM] configuration variable.  Use the `--force-badname'
option to relax this check or reconfigure NAME_REGEX.
levina_201402052@levina201402052:~$ sudo adduser user_201402052
Adding user `user_201402052' ...
Adding new group `user_201402052' (1004) ...
Adding new user `user_201402052' (1003) with group `user_201402052' ...
Creating home directory `/home/user_201402052' ...
Copying files from `/etc/skel' ...
New password:
Retype new password:
passwd: password updated successfully
Changing the user information for user_201402052
Enter the new value, or press ENTER for the default
        Full Name []: 201402052
        Room Number []:
        Work Phone []:
        Home Phone []:
        Other []:
Is the information correct? [Y/n] y
```

   b. User kedua bernama user2 dan user ketiga bernama user3

```
levina_201402052@levina201402052:~$ sudo adduser user2
Adding user `user2' ...
Adding new group `user2' (1005) ...
Adding new user `user2' (1004) with group `user2' ...
The home directory `/home/user2' already exists.  Not copying from `/etc/skel'.
New password:
Retype new password:
passwd: password updated successfully
Changing the user information for user2
Enter the new value, or press ENTER for the default
        Full Name []: user2
        Room Number []:
        Work Phone []:
        Home Phone []:
        Other []:
Is the information correct? [Y/n] y
levina_201402052@levina201402052:~$ sudo adduser user3
Adding user `user3' ...
Adding new group `user3' (1007) ...
Adding new user `user3' (1005) with group `user3' ...
Creating home directory `/home/user3' ...
Copying files from `/etc/skel' ...
New password:
Retype new password:
passwd: password updated successfully
Changing the user information for user3
Enter the new value, or press ENTER for the default
        Full Name []: user3
        Room Number []:
        Work Phone []:
        Home Phone []:
        Other []:
Is the information correct? [Y/n] y
```

2. Masukkan 3 user tersebut ke dalam group
   a. Buat group dengan nama group3 dan masukkan ketiga user yang telah dibuat

```
levina_201402052@levina201402052:~$ sudo addgroup group3
Adding group `group3' (GID 1006) ...
Done.
levina_201402052@levina201402052:~$ sudo adduser user_201402052 group3
Adding user `user_201402052' to group `group3' ...
Adding user user_201402052 to group group3
Done.
levina_201402052@levina201402052:~$ sudo adduser user2 group3
Adding user `user2' to group `group3' ...
Adding user user2 to group group3
Done.
levina_201402052@levina201402052:~$ sudo adduser user3 group3
Adding user `user3' to group `group3' ...
Adding user user3 to group group3
Done.
```

b. Hasil yang diliat dari cat /etc/group

```
user_201402052:x:1004:
user2:x:1005:
user3:x:1007:
group3:x:1006:user_201402052,user2,user3
```

3. User dengan nama user_201402052 harus membuat 1 file(.txt) dalam grup tadi

   a. Masukkan user_201402052 ke group sudo dan login

```
levina_201402052@levina201402052:~$ sudo usermod -aG sudo user_201402052
levina_201402052@levina201402052:~$ su user_201402052
Password:
To run a command as administrator (user "root"), use "sudo <command>".
See "man sudo_root" for details.
```

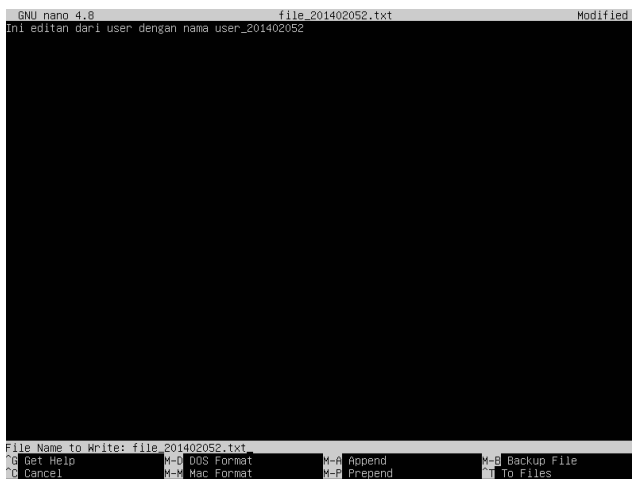   b. Buat 1 file dengan nama file_201402052.txt lalu buat owner group menjadi group3

```
user_201402052@levina201402052:~$ touch file_201402052.txt
user_201402052@levina201402052:~$ ls -l
total 0
-rw-rw-r-- 1 user_201402052 user_201402052 0 Apr 11 14:04 file_201402052.txt
user_201402052@levina201402052:~$ sudo chown user_201402052:group3 file_201402052.txt
[sudo] password for user_201402052:
user_201402052@levina201402052:~$ ls -l
total 0
-rw-rw-r-- 1 user_201402052 group3 0 Apr 11 14:04 file_201402052.txt
```

4. Buat file tersebut agar si pemilik file dapat melakukan semua hal, orang dalam group tadi hanya dapat membaca dan menjalankan file tersebut, sementara orang lain tidak dapat melihat file tersebut

   a. Beri akses full yaitu 7 ke owner (user_201402052), lalu akses membaca dan mengeksekusi (5) ke group3, dan terakhir tidak ada akses sama sekali (0) ke user lain

```
user_201402052@levina201402052:~$ chmod 750 file_201402052.txt
user_201402052@levina201402052:~$ ls -l
total 0
-rwxr-x--- 1 user_201402052 group3 0 Apr 11 14:04 file_201402052.txt
```

   b. Owner bisa mengedit dan mengeksekusi file tersebut

```
  GNU nano 4.8                    file_201402052.txt                    Modified
Ini editan dari user dengan nama user_201402052




















File Name to Write: file_201402052.txt
^G Get Help          M-D DOS Format        M-A Append          M-B Backup File
^C Cancel            M-M Mac Format        M-P Prepend            To Files
```

```
user_201402052@levina201402052:~$ cat file_201402052.txt
Ini editan dari user dengan nama user_201402052
```

   c. User2 yang berada di group yang sama dengan owner dapat melihat dan mengeksekusi file tanpa bisa mengeditnya

```
user_201402052@levina201402052:~$ su user2
Password:
user2@levina201402052:/home/user_201402052$ ls -l
total 4
-rwxr-x--- 1 user_201402052 group3 48 Apr 11 14:11 file_201402052.txt
user2@levina201402052:/home/user_201402052$ cat file_201402052.txt
Ini editan dari user dengan nama user_201402052
```

```
  GNU nano 4.8                          file_201402052.txt                          Modified
Ini editan dari user dengan nama user2 yang gagal karena tidak memiliki hak




                           [ Error writing file_201402052.txt: Permission denied ]
^G Get Help    ^O Write Out   ^W Where Is    ^K Cut Text    ^J Justify     ^C Cur Pos     M-U Undo
^X Exit        ^R Read File   ^\ Replace     ^U Paste Text  ^T To Spell    _ Go To Line   M-E Redo
```

      d.   User lain tidak dapat melihat isi file maupun mengeditnya

```
user2@levina201402052:/home/user_201402052$ su levina_201402052
Password:
levina_201402052@levina201402052:/home/user_201402052$ ls -l
total 4
-rwxr-x--- 1 user_201402052 group3 48 Apr 11 14:11 file_201402052.txt
levina_201402052@levina201402052:/home/user_201402052$ cat file_201402052.txt
cat: file_201402052.txt: Permission denied
```

5. Ubah owner file ke salah satu anggota lain dalam group

      a.   Owner sudah berubah menjadi user2

```
levina_201402052@levina201402052:/home/user_201402052$ su user_201402052
Password:
user_201402052@levina201402052:~$ ls -l
total 4
-rwxr-x--- 1 user_201402052 group3 48 Apr 11 14:11 file_201402052.txt
user_201402052@levina201402052:~$ sudo chown user2:group3 file_201402052.txt
user_201402052@levina201402052:~$ ls -l
total 4
-rwxr-x--- 1 user2 group3 48 Apr 11 14:11 file_201402052.txt
```