# MAKALAH SISTEM OPERASI LINUX

Dosen Pengampu:

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# PRODI PENDIDIKAN TEKNOLOGI INFORMASI FAKULTAS SAIN, TEKNIK, DAN TERAPAN UNIVERSITAS PENDIDIKAN MANDALIKA TAHUN 2024

## Judul: Sistem Operasi Linux Pendahuluan

### LATAR BELAKANG

Sistem operasi komputer secara terminologi merupakan sebuah software yang menjalankan peran untuk manajemen operasi-operasi dari perangkat komputer itu sendiri. Pada dasarnya sistem operasi adalah sebuah perangkat lunak yang fungsinya sebagai sistem dasar dari suatu perangkat Ada macam-macam sistem operasi yang biasanya kita jumpai saat ini seperti windows, linux maupun android. Pembahasan kali ini menyinggung soal sistem operasi Linux Ubuntu.Setiap sitem operasi memiliki suatu software untuk menjalankan perintah dasar di dalam sistem operasi itu sendiri. Di Linux Ubuntu menggunkan software terminal untuk menjalankan perintah dasar dalam manajemen software-software Di Linux dan Unix segala sesuatu adalah file. Direktori adalah file, file juga file, dan divaisdivais juga merupakan file. Divais yang seringkali dirujuk sebagai inode; tetap saja, mereka dianggap sebagai file. Sistem file di Linux dan Unix diorganisasikan secara hirarki, seperti struktur pohon. Level tertinggin dari sistem file adalah direktori root atau /. Semua file dan direktori yang lain berada dibawah direktori root. Sebagai contoh, home/jebediah/cheeses.odt menunjukkan path lengkap ke file cheeses.odt yang berada di direktori jebediah, yang juga berada dibawah direktori home, dan semuanya berada dibawah direktori root (/).

### **TUJUAN**

- 1.1 Dapat menggunakan perintah dasar Linux Ubuntu
- 1.2 Dapat memahami organisasi file dan direktori pada sistem operasi Linux
- 1.3 Dapat menciptakan dan memanipulasi direktori
- 1.4 Dapat memahami konsep link dan symbolic link

### Percobaan:

```
radiance@radiance-VirtualBox:~
radiance@radiance-VirtualBox:~$ pwd
/home/radiance
radiance@radiance-VirtualBox:~$ echo $HOME
/home/radiance
radiance@radiance-VirtualBox:~$
```

Analisa: pwd dan echo \$HOME adalah suatu perintah yang sama untuk menunjukkan direktori

home user saat ini

```
radiance@radiance-VirtualBox:~

radiance@radiance
/home/radiance
radiance@radiance-VirtualBox:~$ cd .
radiance@radiance-VirtualBox:~$ pwd
/home/radiance
radiance@radiance-VirtualBox:~$ cd ..
radiance@radiance-VirtualBox:/home$ pwd
/home
radiance@radiance-VirtualBox:/home$ cd
radiance@radiance-VirtualBox:~$
```

Analisa: cd . menunjukkan direktori home user sedangkan cd . . menunjukkan direktori home

```
radiance@radiance-VirtualBox:~$ pwd
/home/radiance
radiance@radiance-VirtualBox:~$ mkdir A B C A/D A/E B/F A/D/A
radiance@radiance-VirtualBox:~$ ls -l A
total 8
drwxrwxr-x 3 radiance radiance 4096 Sep 25 18:58 D
drwxrwxr-x 2 radiance radiance 4096 Sep 25 18:58 E
radiance@radiance-VirtualBox:~$ ls -l A/D
total 4
drwxrwxr-x 2 radiance radiance 4096 Sep 25 18:58 A
radiance@radiance-VirtualBox:~$
```

Analisa: mkdir adalah perintah membuat direktori dan subdirektori A B C A/D A/E B/F dan A/D/A

, ls –l menampilkan seluruh file isi dari suatu direktori

```
radiance@radiance-VirtualBox:~$ rmdir B
rmdir: failed to remove 'B': Directory not empty
radiance@radiance-VirtualBox:~$ ls -l B
total 4
drwxrwxr-x 2 radiance radiance 4096 Sep 25 18:58 F
radiance@radiance-VirtualBox:~$ rmdir B/F B
radiance@radiance-VirtualBox:~$ ls -l B
ls: cannot access B: No such file or directory
radiance@radiance-VirtualBox:~$
```

Analisa: rmdir B error karena direktori B mempunyai isi sehingga jika ingin dihapus dilakukan

dengan cara menyebutkan juga subdirektorinya yaitu rmdir B/F B baru dapat dihapus direktori B

```
radiance@radiance-VirtualBox:~$ pwd
/home/radiance
radiance@radiance-VirtualBox:~$ ls -l
total 76
drwxrwxr-x 4 radiance radiance 4096 Sep 25 18:58 A
drwxrwxr-x 2 radiance radiance 4096 Sep 20 13:09 backup
drwxrwxr-x 2 radiance radiance 4096 Sep 25 18:58 C
drwxr-xr-x 2 radiance radiance 4096 Sep 17 13:53 Desktop
drwxr-xr-x 2 radiance radiance 4096 Sep 17 13:53 Documents
drwxr-xr-x 2 radiance radiance 4096 Sep 19 15:31 Downloads
-rw-r--r-- 1 radiance radiance 8980 Sep 17 13:44 examples.desktop
-rw-r--r-- 1 radiance radiance 906 Sep 20 13:09 f1
-rw-r--r-- 1 radiance radiance 906 Sep 17 14:53 f2
-rw-r--r-- 1 radiance radiance 906 Sep 20 13:09 f3
drwxr-xr-x 2 radiance radiance 4096 Sep 17 13:53 Music
drwxrwxr-x 2 radiance radiance 4096 Sep 25 18:53 mydir
drwxr-xr-x 2 radiance radiance 4096 Sep 24 15:24 Pictures
drwxrwxr-x 2 radiance radiance 4096 Sep 20 15:29 prak1
drwxr-xr-x 2 radiance radiance 4096 Sep 17 13:53 Public
drwxr-xr-x 2 radiance radiance 4096 Sep 17 13:53 Templates
drwxr-xr-x 2 radiance radiance 4096 Sep 20 15:41 Videos
radiance@radiance-VirtualBox:~$ cd A
```

Analisa: ls –l menampilkan semua file dari direktori home user

```
radiance@radiance-VirtualBox:~$ cd A
radiance@radiance-VirtualBox:~/A$ pwd
/home/radiance/A
radiance@radiance-VirtualBox:~\A$ cd ..
radiance@radiance-VirtualBox:~$ pwd
/home/radiance
radiance@radiance-VirtualBox:~$ cd /home/radiance/C
radiance@radiance-VirtualBox:~/C$ pwd
/home/radiance/C
radiance@radiance-VirtualBox:~/C$ cd /radiance/C
bash: cd: /radiance/C: No such file or directory
radiance@radiance-VirtualBox:~/C$ pwd
/home/radiance/C
radiance@radiance-VirtualBox:~/C$ pwd
/home/radiance/C
```

Analisa: cd A berfungsi untuk berpindah ke direktori A, terjadi error pada cd/radiance/C karena

didalam direktori user radiance tidak ada subdirektori C

```
⊗ □ □ radiance@radiance-VirtualBox: ~
radiance@radiance-VirtualBox:~$ cat > contoh
contoh1
radiance@radiance-VirtualBox:~$ cp contoh contoh1
radiance@radiance-VirtualBox:~$ ls -l
total 84
drwxrwxr-x 4 radiance radiance 4096 Sep 25 18:58 A
drwxrwxr-x 2 radiance radiance 4096 Sep 20 13:09 backup
drwxrwxr-x 2 radiance radiance 4096 Sep 25 18:58 C
-rw-rw-r-- 1 radiance radiance
                                  8 Sep 25 19:07 contoh
-rw-rw-r-- 1 radiance radiance
                                  8 Sep 25 19:08 contoh1
drwxr-xr-x 2 radiance radiance 4096 Sep 17 13:53 Desktop
drwxr-xr-x 2 radiance radiance 4096 Sep 17 13:53 Documents
drwxr-xr-x 2 radiance radiance 4096 Sep 19 15:31 Downloads
-rw-r--r-- 1 radiance radiance 8980 Sep 17 13:44 examples.desktop
-rw-r--r-- 1 radiance radiance 906 Sep 20 13:09 f1
-rw-r--r-- 1 radiance radiance 906 Sep 17 14:53 f2
-rw-r--r-- 1 radiance radiance 906 Sep 20 13:09 f3
drwxr-xr-x 2 radiance radiance 4096 Sep 17 13:53 Music
drwxrwxr-x 2 radiance radiance 4096 Sep 25 18:53 mydir
drwxr-xr-x 2 radiance radiance 4096 Sep 24 15:24 Pictures
drwxrwxr-x 2 radiance radiance 4096 Sep 20 15:29 prak1
drwxr-xr-x 2 radiance radiance 4096 Sep 17 13:53 Public
drwxr-xr-x 2 radiance radiance 4096 Sep 17 13:53 Templates
drwxr-xr-x 2 radiance radiance 4096 Sep 20 15:41 Videos
```

Analisa: cat contoh menampilkan isi file dari contoh, cp merupakan perintah untuk mengkopi file

ke suatu direktori

```
radiance@radiance-VirtualBox:~$ cp contoh A
radiance@radiance-VirtualBox:~$ ls -l A
total 12
-rw-rw-r-- 1 radiance radiance
                                  8 Sep 25 19:09 contoh
drwxrwxr-x 3 radiance radiance 4096 Sep 25 18:58 D
drwxrwxr-x 2 radiance radiance 4096 Sep 25 18:58 E
radiance@radiance-VirtualBox:~$ cp contoh contoh1 A/D
radiance@radiance-VirtualBox:~$ ls -l A/D
total 12
drwxrwxr-x 2 radiance radiance 4096 Sep 25 18:58 A
-rw-rw-r-- 1 radiance radiance
                                  8 Sep 25 19:10 contoh
-rw-rw-r-- 1 radiance radiance
                                  8 Sep 25 19:10 contoh1
radiance@radiance-VirtualBox:~$
```

Analisa: cp contoh A untuk mengkopi contoh ke direktori A, ls –l A menampilkan isi direktori A

cp contoh contohl A/D mengkopi file contoh dan contohl ke subdirektori A/D, ls –l A/D menampilkan isi file subdirektori A/D.

```
radiance@radiance-VirtualBox:~$ mv contoh contoh2
radiance@radiance-VirtualBox:~$ ls -l
total 84
drwxrwxr-x 4 radiance radiance 4096 Sep 25 19:09 A
drwxrwxr-x 2 radiance radiance 4096 Sep 20 13:09 backup
drwxrwxr-x 2 radiance radiance 4096 Sep 25 18:58 C
-rw-rw-r-- 1 radiance radiance
                                  8 Sep 25 19:08 contoh1
-rw-rw-r-- 1 radiance radiance
                                  8 Sep 25 19:07 contoh2
drwxr-xr-x 2 radiance radiance 4096 Sep 17 13:53 Desktop
drwxr-xr-x 2 radiance radiance 4096 Sep 17 13:53 Documents
drwxr-xr-x 2 radiance radiance 4096 Sep 19 15:31 Downloads
-rw-r--r-- 1 radiance radiance 8980 Sep 17 13:44 examples.desktop
-rw-r--r-- 1 radiance radiance 906 Sep 20 13:09 f1
-rw-r--r-- 1 radiance radiance 906 Sep 17 14:53 f2
-rw-r--r-- 1 radiance radiance 906 Sep 20 13:09 f3
drwxr-xr-x 2 radiance radiance 4096 Sep 17 13:53 Music
drwxrwxr-x 2 radiance radiance 4096 Sep 25 18:53 mydir
drwxr-xr-x 2 radiance radiance 4096 Sep 24 15:24 Pictures
drwxrwxr-x 2 radiance radiance 4096 Sep 20 15:29 prak1
drwxr-xr-x 2 radiance radiance 4096 Sep 17 13:53 Public
drwxr-xr-x 2 radiance radiance 4096 Sep 17 13:53 Templates
drwxr-xr-x 2 radiance radiance 4096 Sep 20 15:41 Videos
radiance@radiance-VirtualBox:~$
```

Analisa: mv contoh contoh2 untuk memindahkan file contoh ke direktori contoh2, ls –l menampilkan semua file direktori home user

```
radiance@radiance-VirtualBox:~$ mv contoh1 contoh2 A/D
radiance@radiance-VirtualBox:~$ ls -l A/D
total 16
drwxrwxr-x 2 radiance radiance 4096 Sep 25 18:58 A
-rw-rw-r-- 1 radiance radiance 8 Sep 25 19:10 contoh
-rw-rw-r-- 1 radiance radiance 8 Sep 25 19:08 contoh1
-rw-rw-r-- 1 radiance radiance 8 Sep 25 19:07 contoh2
radiance@radiance-VirtualBox:~$ mv contoh contoh1 C
mv: cannot stat 'contoh': No such file or directory
mv: cannot stat 'contoh1': No such file or directory
radiance@radiance-VirtualBox:~$ ls -l C
total 0
radiance@radiance-VirtualBox:~$
```

Analisa: mv contohl contohl A/D untuk memindahkan contohl contohl ke subdirektori A/D dan

mv contoh contohl ke direktori C dan dibuktikan dengan konfirmasi ls –l.

```
radiance@radiance-VirtualBox:~$ rm contoh2
rm: cannot remove 'contoh2': No such file or directory
radiance@radiance-VirtualBox:~$ ls -l
total 76
drwxrwxr-x 4 radiance radiance 4096 Sep 25 19:09 A
drwxrwxr-x 2 radiance radiance 4096 Sep 20 13:09 backup
drwxrwxr-x 2 radiance radiance 4096 Sep 25 18:58 C
drwxr-xr-x 2 radiance radiance 4096 Sep 17 13:53 Desktop
drwxr-xr-x 2 radiance radiance 4096 Sep 17 13:53 Documents
drwxr-xr-x 2 radiance radiance 4096 Sep 19 15:31 Downloads
-rw-r--r-- 1 radiance radiance 8980 Sep 17 13:44 examples.desktop
-rw-r--r-- 1 radiance radiance 906 Sep 20 13:09 f1
-rw-r--r-- 1 radiance radiance 906 Sep 17 14:53 f2
-rw-r--r-- 1 radiance radiance 906 Sep 20 13:09 f3
drwxr-xr-x 2 radiance radiance 4096 Sep 17 13:53 Music
drwxrwxr-x 2 radiance radiance 4096 Sep 25 18:53 mydir
drwxr-xr-x 2 radiance radiance 4096 Sep 24 15:24 Pictures
drwxrwxr-x 2 radiance radiance 4096 Sep 20 15:29 prak1
drwxr-xr-x 2 radiance radiance 4096 Sep 17 13:53 Public
drwxr-xr-x 2 radiance radiance 4096 Sep 17 13:53 Templates
drwxr-xr-x 2 radiance radiance 4096 Sep 20 15:41 Videos
radiance@radiance-VirtualBox:~$
```

Analisa: rm contoh2 error karena file/direktori contoh2 tidak ada pada direktori home user dibuktikan dengan konfirmasi ls –l

```
radiance@radiance-VirtualBox:~/A

radiance@radiance-VirtualBox:~/A$ rm -i contoh

rm: remove regular file 'contoh'? no

radiance@radiance-VirtualBox:~/A$ rm -rf A C

radiance@radiance-VirtualBox:~/A$ ls -l

total 12

-rw-rw-r-- 1 radiance radiance 8 Sep 25 19:09 contoh

drwxrwxr-x 3 radiance radiance 4096 Sep 25 19:13 D

drwxrwxr-x 2 radiance radiance 4096 Sep 25 18:58 E

radiance@radiance-VirtualBox:~/A$
```

Analisa: rm –i merupakan perintah menghapus file tetapi dengan pertanyaan interaktif, rm –rf merupakan perintah menghapus file secara langsung, dibuktikan dengan konfirmasi ls –l.

```
radiance@radiance-VirtualBox:~$ echo "Hallo apa kabar" > halo.txt
radiance@radiance-VirtualBox:~$ LS -L
The program 'LS' is currently not installed. You can install it by typing:
sudo apt-get install sl
radiance@radiance-VirtualBox:~$ ls -l
total 80
drwxrwxr-x 4 radiance radiance 4096 Sep 25 19:09 A
drwxrwxr-x 2 radiance radiance 4096 Sep 20 13:09 backup
drwxrwxr-x 2 radiance radiance 4096 Sep 25 18:58 C
drwxr-xr-x 2 radiance radiance 4096 Sep 17 13:53 Desktop
drwxr-xr-x 2 radiance radiance 4096 Sep 17 13:53 Documents
drwxr-xr-x 2 radiance radiance 4096 Sep 19 15:31 Downloads
-rw-r--r-- 1 radiance radiance 8980 Sep 17 13:44 examples.desktop
rw-r--r-- 1 radiance radiance 906 Sep 20 13:09 f1
-rw-r--r-- 1 radiance radiance 906 Sep 17 14:53 f2
-rw-r--r-- 1 radiance radiance 906 Sep 20 13:09 f3
-rw-rw-r-- 1 radiance radiance
                                  16 Sep 25 19:21 halo.txt
drwxr-xr-x 2 radiance radiance 4096 Sep 17 13:53 Music
drwxrwxr-x 2 radiance radiance 4096 Sep 25 18:53 mydir
drwxr-xr-x 2 radiance radiance 4096 Sep 24 15:24 Pictures
drwxrwxr-x 2 radiance radiance 4096 Sep 20 15:29 prak1
drwxr-xr-x 2 radiance radiance 4096 Sep 17 13:53 Public
drwxr-xr-x 2 radiance radiance 4096 Sep 17 13:53 Templates
drwxr-xr-x 2 radiance radiance 4096 Sep 20 15:41 Videos
```

Analisa: echo kali ini digunakan untuk membuat shortcut dalam suatu file/direktori, dibuktikan

dengan konfirmasi ls –l.

```
radiance@radiance-VirtualBox: -
radiance@radiance-VirtualBox:-$ In halo.txt z
radiance@radiance-VirtualBox:~$ ls -l
total 84
drwxrwxr-x 4 radiance radiance 4096 Sep 25 19:09 A
drwxrwxr-x 2 radiance radiance 4096 Sep 20 13:09 backup
drwxrwxr-x 2 radiance radiance 4096 Sep 25 18:58 C
drwxr-xr-x 2 radiance radiance 4096 Sep 17 13:53 Desktop
drwxr-xr-x 2 radiance radiance 4096 Sep 17 13:53 Documents
drwxr-xr-x 2 radiance radiance 4096 Sep 19 15:31 Downloads
-rw-r--r-- 1 radiance radiance 8980 Sep 17 13:44 examples.desktop
-rw-r--r-- 1 radiance radiance 906 Sep 20 13:09 f1
-rw-r--r-- 1 radiance radiance 906 Sep 17 14:53 f2
-rw-r--r-- 1 radiance radiance 906 Sep 20 13:09 f3
-rw-rw-r-- 2 radiance radiance
                                      16 Sep 25 19:21 halo.txt
drwxr-xr-x 2 radiance radiance 4096 Sep 17 13:53 Music
drwxrwxr-x 2 radiance radiance 4096 Sep 25 18:53 mydir
drwxr-xr-x 2 radiance radiance 4096 Sep 24 15:24 Pictures
drwxrwxr-x 2 radiance radiance 4096 Sep 20 15:29 prak1
drwxr-xr-x 2 radiance radiance 4096 Sep 17 13:53 Public
drwxr-xr-x 2 radiance radiance 4096 Sep 17 13:53 Templates
drwxr-xr-x 2 radiance radiance 4096 Sep 20 15:41 Videos
-rw-rw-r-- 2 radiance radiance
                                       16 Sep 25 19:21 z
radiance@radiance-VirtualBox:~$
```

Analisa: In adalah perintah membuat link dari satu file/direktori ke file direktori lain. Dibuktikan

```
radiance@radiance-VirtualBox:~$ cat z

Hallo apa kabar
radiance@radiance-VirtualBox:~$ ln z mydir/halo.juga
radiance@radiance-VirtualBox:~$ cat mydir/halo.juga

Hallo apa kabar
radiance@radiance-VirtualBox:~$ ln -s z bye.txt
radiance@radiance-VirtualBox:~$ ls -l bye.txt

lrwxrwxrwx 1 radiance radiance 1 Sep 25 19:24 bye.txt -> z
radiance@radiance-VirtualBox:~$ cat bye.txt

Hallo apa kabar
radiance@radiance-VirtualBox:~$
```

Analisa: cat z menampilkan file z, ln z mydir/halo.juga untuk membuat link file z ke mydir/halo.juga dibuktikan dengan cat, ln –s z bye.txt membuat link file z ke bye.txt dan dikonfirmasi ls –l, cat bye.txt karena bye.txt sudah link ke Hallo apa kabar maka ditampilkanlah kalimat tersebut.

```
drwxrwxr-x 2 radiance radiance 4096 Sep 20 13:09 backup
lrwxrwxrwx 1 radiance radiance
                                 1 Sep 25 19:24 bye.txt -> z
drwxrwxr-x 2 radiance radiance 4096 Sep 25 18:58 C
drwxr-xr-x 2 radiance radiance 4096 Sep 17 13:53 Desktop
drwxr-xr-x 2 radiance radiance 4096 Sep 17 13:53 Documents
drwxr-xr-x 2 radiance radiance 4096 Sep 19 15:31 Downloads
-rw-r--r-- 1 radiance radiance 8980 Sep 17 13:44 examples.desktop
-rw-r--r-- 1 radiance radiance 906 Sep 20 13:09 f1
-rw-r--r-- 1 radiance radiance 906 Sep 17 14:53 f2
-rw-r--r-- 1 radiance radiance 906 Sep 20 13:09 f3
-rw-rw-r-- 3 radiance radiance
                                 16 Sep 25 19:21 halo.txt
drwxr-xr-x 2 radiance radiance 4096 Sep 17 13:53 Music
drwxrwxr-x 2 radiance radiance 4096 Sep 25 19:23 mydir
drwxr-xr-x 2 radiance radiance 4096 Sep 24 15:24 Pictures
drwxrwxr-x 2 radiance radiance 4096 Sep 20 15:29 prak1
drwxr-xr-x 2 radiance radiance 4096 Sep 17 13:53 Public
drwxr-xr-x 2 radiance radiance 4096 Sep 17 13:53 Templates
drwxr-xr-x 2 radiance radiance 4096 Sep 20 15:41 Videos
-rw-rw-r-- 3 radiance radiance
                               16 Sep 25 19:21 z
radiance@radiance-VirtualBox:~$ file halo.txt
halo.txt: ASCII text
radiance@radiance-VirtualBox:~$ file bye.txt
bye.txt: symbolic link to 'z'
radiance@radiance-VirtualBox:~$
```

Analisa: file hallo.txt menampilkan jenis text dari hallo.txt, file bye.txt karena sudah ada symbolic linknya adalah z maka ditampilkan symbolic link to z

```
- adiance@radiance-VirtualBox: ~
radiance@radiance-VirtualBox:~$ find /home -name "*.txt" -print > mverror.txt
radiance@radiance-VirtualBox:~S cat myerror.txt
/home/radiance/.mozilla/firefox/0t1bp22e.default/SiteSecurityServiceState.txt
/home/radiance/.mozilla/firefox/0t1bp22e.default/revocations.txt
/home/radiance/.mozilla/firefox/hizsd5ok.default/SiteSecurityServiceState.txt
/home/radiance/.mozilla/firefox/hizsd5ok.default/revocations.txt
/home/radiance/myerror.txt
/home/radiance/bye.txt
/home/radiance/.config/libreoffice/4/user/uno_packages/cache/log.txt
/home/radiance/halo.txt
/home/radiance/.local/share/Trash/files/myerror.txt
/home/radiance/.local/share/Trash/files/A/D/praktikum2tik.txt
/home/radiance/.local/share/Trash/files/bye.txt
/home/radiance/.local/share/Trash/files/halo.txt
radiance@radiance-VirtualBox:~$ find . name "*.txt" -exex wc -l ,,{}",,,"
find: unknown predicate `-exex'
radiance@radiance-VirtualBox:~$ find . name "*.txt" -exec wc -l ,,{}",,,"
find: missing argument to `-exec'
radiance@radiance-VirtualBox:~$
```

Analisa: find tersebut digunakan untuk mencari kata kunci ".txt" di direktori home user kemudian

dicetak, sementara exec tidak termasuk argumen dalam linux Ubuntu yang digunakan.

```
- I aniquice (mi aniquice - A il radiony .
radiance@radiance-VirtualBox:~$ which ls
/bin/ls
radiance@radiance-VirtualBox:~$ locate "*.txt"
/boot/grub/gfxblacklist.txt
/etc/X11/rgb.txt
/etc/brltty/brl-ba-all.txt
/etc/brltty/brl-bd-all.txt
/etc/brltty/brl-bl-18.txt
/etc/brltty/brl-bl-40_m20_m40.txt
/etc/brltty/brl-ec-all.txt
/etc/brltty/brl-ec-spanish.txt
/etc/brltty/brl-eu-all.txt
/etc/brltty/brl-lb-all.txt
/etc/brltty/brl-lt-all.txt
/etc/brltty/brl-mb-all.txt
/etc/brltty/brl-md-all.txt
/etc/brltty/brl-mn-all.txt
/etc/brltty/brl-tn-all.txt
/etc/brltty/brl-ts-nav20 nav40.txt
/etc/brltty/brl-ts-nav80.txt
/etc/brltty/brl-ts-pb40.txt
/etc/brltty/brl-ts-pb65_pb81.txt
/etc/brltty/brl-tt-all.txt
/etc/brltty/brl-vd-all.txt
```

Analisa: which ls jarang digunakan tapi perintah tersebut menujukkan pada subdirektori /bin/ls,

locat digunakan untuk menujukkan letak kata kunci.

```
radiance@radiance-VirtualBox:~

radiance@radiance-VirtualBox:~$ grep Hallo *.txt

bye.txt:Hallo apa kabar

halo.txt:Hallo apa kabar

radiance@radiance-VirtualBox:~$
```

Analisa: grep berguna untuk pencarian kata kunci dalam file yang efisien

### Latihan

```
radiance@radiance-VirtualBox:~$ cd
radiance@radiance-VirtualBox:~$ pwd
/home/radiance
radiance@radiance-VirtualBox:~$ ls -al
total 100
drwxr-xr-x 15 radiance radiance 4096 Sep 28 09:28
drwxr-xr-x 3 root
                                      4096 Sep 28 09:15
                          root
-rw-r--r-- 1 radiance radiance 220 Sep 28 09:15 .bash_logout
-rw-r--r-- 1 radiance radiance 3637 Sep 28 09:15 .bashrc
drwx----- 14 radiance radiance 4096 Sep 28 09:34 .cache
drwx----- 15 radiance radiance 4096 Sep 28 09:26 .config
drwxr-xr-x 2 radiance radiance 4096 Sep 28 09:23 Desktop
-rw-r--r-- 1 radiance radiance 25 Sep 28 09:23 .dmrc
drwxr-xr-x 2 radiance radiance 4096 Sep 28 09:23 Documents
drwxr-xr-x 2 radiance radiance 4096 Sep 28 09:23 Downloads
-rw-r--r-- 1 radiance radiance 8980 Sep 28 09:23 Downloads
drwx----- 3 radiance radiance 4096 Sep 28 89:24 proof
-rw----- 1 radiance radiance 370 Sep 28 09:23 .ICEauthority
drwx----- 3 radiance radiance 4096 Sep 28 09:23 .local
              4 radiance radiance 4096 Sep 28 09:28 .mozilla
drwxr-xr-x
              2 radiance radiance 4096 Sep 28 09:23 Music
drwxr-xr-x 2 radiance radiance 4096 Sep 28 09:23 Pictures
              1 radiance radiance 675 Sep 28 09:15 .profile
```

Analisa: cd untuk berpindah ke direktori home user, ls –al menampilkan seluruh file dalam direktori tersebut.

```
radiance@radiance-VirtualBox: /
radiance@radiance-VirtualBox:~$ cd .
radiance@radiance-VirtualBox:~$ pwd
/home/radiance
radiance@radiance-VirtualBox:~$ cd ..
radiance@radiance-VirtualBox:/home$ pwd $ls -al
bash: pwd: -a: invalid option
pwd: usage: pwd [-LP]
radiance@radiance-VirtualBox:/home$ cd ..
radiance@radiance-VirtualBox:/$ pwd
radiance@radiance-VirtualBox:/$ ls -al
total 104
drwxr-xr-x
           23 root root
                         4096 Sep 28 09:17 .
          23 root root 4096 Sep 28 09:17
drwxr-xr-x
drwxr-xr-x
           2 root root 4096 Sep 28 09:18 bin
drwxr-xr-x
           3 root root 4096 Sep 28 09:18 boot
           2 root root 4096 Sep 28 09:14 cdrom
drwxrwxr-x
drwxr-xr-x 17 root root 4180 Sep 28 09:22 dev
drwxr-xr-x 128 root root 12288 Sep 28 09:23 etc
drwxr-xr-x 3 root root 4096 Sep 28 09:15 home
                           32 Sep 28 09:17 initrd.img -> boot/initrd.img-4.4.0
lrwxrwxrwx
           1 root root
31-generic
drwxr-xr-x 23 root root 4096 Sep 28 09:18 lib
drwxr-xr-x
            2 root root 4096 Agu 3 2016 lib64
```

Analisa: cd. Beralih ke home user directory, cd. beralih ke direktori home sistem ext4, ls –al menujukkan seluruh file di direktori home sistem ext4

```
radiance@radiance-VirtualBox:/$ cd /etc
radiance@radiance-VirtualBox:/etc$ ls -al | more
total 1128
drwxr-xr-x 128 root root
                          12288 Sep 28 09:23 .
drwxr-xr-x 23 root root
                           4096 Sep 28 09:17 ...
drwxr-xr-x 3 root root
                           4096 Agu 3 2016 acpi
           1 root root
                           2981 Agu 3 2016 adduser.conf
- FW- F-- F--
          2 root root
                           4096 Sep 28 09:17 alternatives
drwxr-xr-x
          1 root root
                            401 Peb 20
- FW- F-- F--
                                        2014 anacrontab
                            112 Jan 10
            1 root root
- FW- F-- F--
                                        2014 apg.conf
          6 root root
drwxr-xr-x
                           4096 Agu 3
                                        2016 apm
          3 root root
                           4096 Agu 3 2016 apparmor
drwxr-xr-x
drwxr-xr-x 8 root root
                           4096 Agu 3 2016 apparmor.d
drwxr-xr-x 5 root root
                           4096 Agu 3 2016 apport
drwxr-xr-x 6 root root
                           4096 Sep 28 09:19 apt
                           4096 Agu 3 2016 aptdaemon
drwxr-xr-x
          3 root root
drwxr-xr-x
          2 root root
                           4096 Agu 3 2016 at-spi2
drwxr-xr-x
          3 root root
                           4096 Agu 3 2016 avahi
          1 root root
                           2177 Apr 9 2014 bash.bashrc
-LM-L--L--
           1 root root
                            45 Mar 23 2014 bash_completion
- FW- F-- F--
           2 root root
                           4096 Sep 28 09:18 bash_completion.d
drwxr-xr-x
                         356 Jan 2
            1 root root
                                       2012 blid.conf
2014 blkid.conf
                                        2012 bindresvport.blacklist
- FW- F-- F--
- FW- F-- F--
                            321 Apr 16
            1 root root
                           15 Sep 28 09:01 blkid.tab -> /dev/.blkid.tab
Lrwxrwxrwx
            1 root root
```

Analisa: cd /etc adalah perintah untuk berpindah ke direktori etc dan dibuktikan dengan konfirmasi

ls –al | more