

LAPORAN
PRAKTEK ADMINISTRASI SISTEM
MANAGING FILES USING COMMANDLINE TOOLS
(MENGELOLA FILE MENGGUNAKAN ALAT BARIS PERINTAH)



SEMESTER 3

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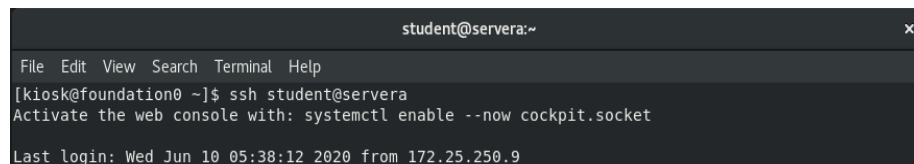
TEKNIK KOMPUTER 2B

JURUSAN TEKNOLOGI INFORMASI
PROGRAM STUDI TEKNIK KOMPUTER
POLITEKNIK NEGERI PADANG
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- Gunakan perintah ssh untuk masuk servera sebagai student pengguna. ~~Sim~~ dikonfigurasi untuk menggunakan kunci SSH untuk otentikasi dan oleh karena itu kata sandi tidak diperlukan.

```
[student@workstation ~]$ ssh student@servera
```

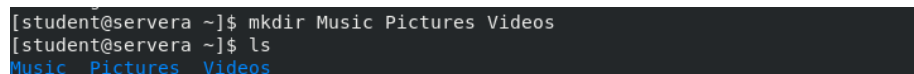
```
...output omitted... [student@servera ~]$
```



```
student@servera:~  
File Edit View Search Terminal Help  
[kiosk@foundation0 ~]$ ssh student@servera  
Activate the web console with: systemctl enable --now cockpit.socket  
Last login: Wed Jun 10 05:38:12 2020 from 172.25.250.9
```

- Di student direktori home pengguna, gunakan perintah mkdir untuk membuat subdirektori: Music, Pictures, dan Videos.

```
[student@servera ~]$ mkdir Music Pictures Videos
```



```
[student@servera ~]$ mkdir Music Pictures Videos  
[student@servera ~]$ ls  
Music Pictures Videos
```

- Melanjutkan di studentdirektori beranda pengguna, gunakan perintah sentuh untuk membuat kumpulan file latihan kosong untuk digunakan selama lab ini.

1. Buat enam file dengan nama formulir . songX.mp3
2. Buat enam file dengan nama formulir . snapX.jpg
3. Buat enam file dengan nama formulir . filmX.avi

Di setiap set, ganti X dengan angka 1 sampai 6

```
[student@servera ~]$ touch song1.mp3 song2.mp3 song3.mp3 song4.mp3 \  
song5.mp3 song6.mp3
```

```
[student@servera ~]$ touch snap1.jpg snap2.jpg snap3.jpg snap4.jpg \  
snap5.jpg snap6.jpg
```

```
[student@servera ~]$ touch film1.avi film2.avi film3.avi film4.avi \  
film5.avi film6.avi
```

```
[student@servera ~]$ ls -l
```

```
[student@servera ~]$ touch song1.mp3 song2.mp3 song3.mp3 song4.mp3 \ song5.mp3 song6.mp3
[student@servera ~]$ touch snap1.jpg snap2.jpg snap3.jpg snap4.jpg \ snap5.jpg snap6.jpg
[student@servera ~]$ touch film1.avi film2.avi film3.avi film4.avi \ film5.avi film6.avi
[student@servera ~]$ ls -l
total 0
-rw-rw-r--. 1 student student 0 Oct 11 11:16 film1.avi
-rw-rw-r--. 1 student student 0 Oct 11 11:16 film2.avi
-rw-rw-r--. 1 student student 0 Oct 11 11:16 film3.avi
-rw-rw-r--. 1 student student 0 Oct 11 11:16 film4.avi
-rw-rw-r--. 1 student student 0 Oct 11 11:16 ' film5.avi'
-rw-rw-r--. 1 student student 0 Oct 11 11:16 film6.avi
drwxrwxr-x. 2 student student 6 Oct 11 11:11 Music
drwxrwxr-x. 2 student student 6 Oct 11 11:11 Pictures
-rw-rw-r--. 1 student student 0 Oct 11 11:15 snap1.jpg
-rw-rw-r--. 1 student student 0 Oct 11 11:15 snap2.jpg
-rw-rw-r--. 1 student student 0 Oct 11 11:15 snap3.jpg
-rw-rw-r--. 1 student student 0 Oct 11 11:15 snap4.jpg
-rw-rw-r--. 1 student student 0 Oct 11 11:15 ' snap5.jpg'
-rw-rw-r--. 1 student student 0 Oct 11 11:15 snap6.jpg
-rw-rw-r--. 1 student student 0 Oct 11 11:13 song1.mp3
-rw-rw-r--. 1 student student 0 Oct 11 11:13 song2.mp3
-rw-rw-r--. 1 student student 0 Oct 11 11:13 song3.mp3
-rw-rw-r--. 1 student student 0 Oct 11 11:13 song4.mp3
-rw-rw-r--. 1 student student 0 Oct 11 11:13 ' song5.mp3'
-rw-rw-r--. 1 student student 0 Oct 11 11:13 song6.mp3
drwxrwxr-x. 2 student student 6 Oct 11 11:11 Videos
```

🚦 Melanjutkan di studentdirektori home pengguna, pindahkan file lagu ke Musicsubdirektori, file snapshot ke Picturessubdirektori, dan file film ke Videossubdirektori. Saat mendistribusikan file dari satu lokasi ke banyak lokasi, pertama-tama ubah ke direktori yang berisi sumberfile. Gunakan sintaks jalur paling sederhana, absolut atau relatif, untuk mencapai tujuan untuk setiap tugas manajemen file.

```
[student@servera ~]$ mv song1.mp3 song2.mp3 song3.mp3 song4.mp3 \ song5.mp3
song6.mp3 Music
```

```
[student@servera ~]$ mv snap1.jpg snap2.jpg snap3.jpg snap4.jpg \ snap5.jpg
snap6.jpg Pictures
```

```
[student@servera ~]$ mv film1.avi film2.avi film3.avi film4.avi \ film5.avi
film6.avi Videos
```

```
[student@servera ~]$ ls -l Music Pictures Videos
```

```

student@servera:~
File Edit View Search Terminal Help
[student@servera ~]$ mv song1.mp3 song2.mp3 song3.mp3 song4.mp3 \ song5.mp3 song6.mp3 Music
mv: cannot stat 'song1.mp3': No such file or directory
mv: cannot stat 'song2.mp3': No such file or directory
mv: cannot stat 'song3.mp3': No such file or directory
mv: cannot stat 'song4.mp3': No such file or directory
mv: cannot stat ' song5.mp3': No such file or directory
mv: cannot stat 'song6.mp3': No such file or directory
[student@servera ~]$ mv snap1.jpg snap2.jpg snap3.jpg snap4.jpg \ snap5.jpg snap6.jpg Pictures
[student@servera ~]$ mv film1.avi film2.avi film3.avi film4.avi \ film5.avi film6.avi Videos
[student@servera ~]$ ls -l Music Pictures Videos
Music:
total 0
-rw-rw-r--. 1 student student 0 Oct 11 11:13 song1.mp3
-rw-rw-r--. 1 student student 0 Oct 11 11:13 song2.mp3
-rw-rw-r--. 1 student student 0 Oct 11 11:13 song3.mp3
-rw-rw-r--. 1 student student 0 Oct 11 11:13 song4.mp3
-rw-rw-r--. 1 student student 0 Oct 11 11:13 ' song5.mp3'
-rw-rw-r--. 1 student student 0 Oct 11 11:13 song6.mp3

Pictures:
total 0
-rw-rw-r--. 1 student student 0 Oct 11 11:15 snap1.jpg
-rw-rw-r--. 1 student student 0 Oct 11 11:15 snap2.jpg
-rw-rw-r--. 1 student student 0 Oct 11 11:15 snap3.jpg
-rw-rw-r--. 1 student student 0 Oct 11 11:15 snap4.jpg
-rw-rw-r--. 1 student student 0 Oct 11 11:15 ' snap5.jpg'
-rw-rw-r--. 1 student student 0 Oct 11 11:15 snap6.jpg

Videos:
total 0
-rw-rw-r--. 1 student student 0 Oct 11 11:16 film1.avi
-rw-rw-r--. 1 student student 0 Oct 11 11:16 film2.avi
-rw-rw-r--. 1 student student 0 Oct 11 11:16 film3.avi
-rw-rw-r--. 1 student student 0 Oct 11 11:16 film4.avi
-rw-rw-r--. 1 student student 0 Oct 11 11:16 ' film5.avi'
-rw-rw-r--. 1 student student 0 Oct 11 11:16 film6.avi
[student@servera ~]$

```

🚦 Melanjutkan di studentdirektori home pengguna, buat tiga subdirektori untuk mengatur file kita ke dalam proyek. Beri nama subdirektori friends, family, dan work. Gunakan satu perintah untuk membuat ketiga subdirektori secara bersamaan. kita akan menggunakan direktori ini untuk mengatur ulang file kita ke dalam proyek.

[student@servera ~]\$ mkdir friends familywork[student@servera ~]\$ ls -l

```

[student@servera ~]$ mkdir friends family work
[student@servera ~]$ ls -l
total 0
drwxrwxr-x. 2 student student  6 Oct 11 12:16 family
drwxrwxr-x. 2 student student  6 Oct 11 12:16 friends
drwxrwxr-x. 2 student student 109 Oct 11 11:59 Music
drwxrwxr-x. 2 student student 109 Oct 11 12:05 Pictures
drwxrwxr-x. 2 student student 109 Oct 11 12:06 Videos
drwxrwxr-x. 2 student student  6 Oct 11 12:16 work
[student@servera ~]$

```

✚ Salin pilihan file baru ke direktori proyek family dan friends. Gunakan perintah sebanyak yang diperlukan. Kita tidak harus menggunakan hanya satu perintah seperti pada contoh. Untuk setiap proyek, pertama-tama ubah direktori proyek, lalu salin file sumber ke direktori ini. Ingatlah bahwa kita membuat salinan, oleh karena itu file asli akan tetap berada di lokasi aslinya setelah file disalin ke direktori proyek.

1. Salin file (semua jenis) yang berisi angka 1 dan 2 ke dalam friendsubdirektori
 2. Salin file (semua jenis) yang berisi angka 3 dan 4 ke dalam familysubdirektori
- Saat menyalin file dari beberapa lokasi ke satu lokasi, Red Hat menyarankan kita mengubah ke direktori tujuan sebelum menyalin file. Gunakan sintaks jalur paling sederhana, absolut atau relatif, untuk mencapai sumber untuk setiap tugas manajemen file.

```
[student@servera ~]$ cd friends
```

```
[student@servera friends]$ cp ~/Music/song1.mp3 ~/Music/song2.mp3 \
```

```
~/Pictures/snap1.jpg ~/Pictures/snap2.jpg ~/Videos/film1.avi \
```

```
~/Videos/film2.avi . [student@servera
```

```
friends]$ ls -l total 0
```

```
-rw-rw-r--. 1 student student 0 Feb      4 18:42 film1.avi
```

```
-rw-rw-r--. 1 student student 0 Feb      4 18:42 film2.avi
```

```
-rw-rw-r--. 1 student student 0 Feb      4 18:42 snap1.jpg
```

```
-rw-rw-r--. 1 student student 0 Feb      4 18:42 snap2.jpg
```

```
-rw-rw-r--. 1 student student 0 Feb      4 18:42 song1.mp3
```

```
-rw-rw-r--. 1 student student 0 Feb      4 18:42 song2.mp3
```

```
[student@servera friends]$ cd ../family
```

```
[student@servera family]$ cp ~/Music/song3.mp3 ~/Music/song4.mp3 \
```

```
~/Pictures/snap3.jpg ~/Pictures/snap4.jpg ~/Videos/film3.avi \
```

```
~/Videos/film4.avi . [student@servera
```

```
family]$ ls -l total 0
```

```
-rw-rw-r--. 1 student student 0 Feb      4 18:44 film3.avi
```

```
-rw-rw-r--. 1 student student 0 Feb      4 18:44 film4.avi
```

```
-rw-rw-r--. 1 student student 0 Feb      4 18:44 snap3.jpg
```

```
-rw-rw-r--. 1 student student 0 Feb      4 18:44 snap4.jpg
```

```
-rw-rw-r--. 1 student student 0 Feb      4 18:44 song3.mp3
```

```
-rw-rw-r--. 1 student student 0 Feb      4 18:44 song4.mp3
```

```
[student@servera ~]$ cd friends
[student@servera friends]$ cp ~/Music/song1.mp3 ~/Music/song2.mp3 ~/Pictures/snap1.jpg ~/Pictures/snap2.jpg ~/Videos/film1.avi ~/Videos/film2.avi .
[student@servera friends]$ ls -l
total 0
-rw-rw-r--. 1 student student 0 Oct 11 12:35 film1.avi
-rw-rw-r--. 1 student student 0 Oct 11 12:35 film2.avi
-rw-rw-r--. 1 student student 0 Oct 11 12:35 snap1.jpg
-rw-rw-r--. 1 student student 0 Oct 11 12:35 snap2.jpg
-rw-rw-r--. 1 student student 0 Oct 11 12:35 song1.mp3
-rw-rw-r--. 1 student student 0 Oct 11 12:35 song2.mp3

[student@servera friends]$ cd ../family
[student@servera family]$ cp ~/Music/song3.mp3 ~/Music/song4.mp3 ~/Pictures/snap3.jpg ~/Pictures/snap4.jpg ~/Videos/film3.avi ~/Videos/film4.avi
cp: target '/home/student/Videos/film4.avi' is not a directory
[student@servera family]$
[student@servera family]$ cp ~/Music/song3.mp3 ~/Music/song4.mp3 ~/Pictures/snap3.jpg ~/Pictures/snap4.jpg ~/Videos/film3.avi ~/Videos/film4.avi .
[student@servera family]$ ls -l
total 0
-rw-rw-r--. 1 student student 0 Oct 11 12:38 film3.avi
-rw-rw-r--. 1 student student 0 Oct 11 12:38 film4.avi
-rw-rw-r--. 1 student student 0 Oct 11 12:38 snap3.jpg
-rw-rw-r--. 1 student student 0 Oct 11 12:38 snap4.jpg
-rw-rw-r--. 1 student student 0 Oct 11 12:38 song3.mp3
-rw-rw-r--. 1 student student 0 Oct 11 12:38 song4.mp3
[student@servera family]$
```

🌈 Untuk proyek kerja kita, buat salinan tambahan

```
[student@servera family]$ cd ../work[student@servera work]$ cp ~/Music/song5.mp3
```

```
~/Music/song6.mp3\
```

```
~/Pictures/snap5.jpg ~/Pictures/snap6.jpg \
```

```
~/Videos/film5.avi ~/Videos/film6.avi . [student@servera
```

```
work]$ ls -ltotal 0
```

```
-rw-rw-r--. 1 student student 0 Feb 4 18:48 film5.avi
```

```
-rw-rw-r--. 1 student student 0 Feb 4 18:48 film6.avi
```

```
-rw-rw-r--. 1 student student 0 Feb 4 18:48 snap5.jpg
```

```
-rw-rw-r--. 1 student student 0 Feb 4 18:48 snap6.jpg
```

```
-rw-rw-r--. 1 student student 0 Feb 4 18:48 song5.mp3
```

```
-rw-rw-r--. 1 student student 0 Feb 4 18:48 song6.mp3
```

```
[student@servera ~]$ cd work
[student@servera work]$ cp ~/Music/' song5.mp3' ~/Music/song6.mp3 ~/Pictures/' snap5.jpg' ~/Pictures/snap6.jpg
~/Videos/' film5.avi' ~/Videos/film6.avi .
[student@servera work]$ ls -l
total 0
-rw-rw-r--. 1 student student 0 Oct 11 13:11 ' film5.avi'
-rw-rw-r--. 1 student student 0 Oct 11 13:11 film6.avi
-rw-rw-r--. 1 student student 0 Oct 11 13:11 ' snap5.jpg'
-rw-rw-r--. 1 student student 0 Oct 11 13:11 snap6.jpg
-rw-rw-r--. 1 student student 0 Oct 11 13:11 ' song5.mp3'
-rw-rw-r--. 1 student student 0 Oct 11 13:11 song6.mp3
[student@servera work]$
```

- ✚ Tugas proyek kita sekarang selesai, dan sekarang saatnya untuk membersihkan proyek. Ubah ke studentdirektori home pengguna. Cobalah untuk menghapus direktori family dan friend sproject dengan satu perintah rmdir. Menggunakan perintah rmdir akan gagal karena kedua subdirektori berisi file.

```
[student@servera work]$ cd [student@servera ~]$ rmdir
```

```
family friends
```

```
rmdir: failed to remove 'family': Directory not empty rmdir: failed to remove
```

```
'friends': Directory not empty
```

```
[student@servera work]$ cd  
[student@servera ~]$ rmdir family friends  
rmdir: failed to remove 'family': Directory not empty  
rmdir: failed to remove 'friends': Directory not empty  
[student@servera ~]$
```

- ✚ Gunakan rm-r perintah untuk secara rekursif menghapus baik family dan friendsdirektori dan isinya

```
[student@servera ~]$ rm -r family friends
```

```
[student@servera ~]$ ls -ltotal 0
```

```
drwxrwxr-x. 2 student student 108 Feb 4 18:36 Music
```

```
drwxrwxr-x. 2 student student 108 Feb 4 18:36 Pictures
```

```
drwxrwxr-x. 2 student student 108 Feb 4 18:36 Videos
```

```
drwxrwxr-x. 2 student student 108 Feb 4 18:48 work
```

```
[student@servera ~]$ rm -r family friends  
[student@servera ~]$ ls -l  
total 0  
drwxrwxr-x. 2 student student 109 Oct 11 11:59 Music  
drwxrwxr-x. 2 student student 109 Oct 11 12:05 Pictures  
drwxrwxr-x. 2 student student 109 Oct 11 12:06 Videos  
drwxrwxr-x. 2 student student 111 Oct 11 13:11 work  
[student@servera ~]$
```

🌈 Hapus semua file dalam proyek kerja, tetapi jangan hapus direktori kerja

```
[student@servera ~]$ cd work
```

```
[student@servera work]$ rm song5.mp3 song6.mp3 snap5.jpg snap6.jpg \
```

```
film5.avi film6.avi [student@servera
```

```
work]$ ls -l total 0
```

```
[student@servera ~]$ cd work
[student@servera work]$ rm song5.mp3 song6.mp3 snap5.jpg snap6.jpg film5.avi film6.avi
rm: cannot remove 'song5.mp3': No such file or directory
rm: cannot remove 'snap5.jpg': No such file or directory
rm: cannot remove 'film5.avi': No such file or directory
[student@servera work]$ rm 'song5.mp3' 'song6.mp3' 'snap5.jpg' 'snap6.jpg' 'film5.avi' 'film6.avi'
rm: cannot remove 'song5.mp3': No such file or directory
rm: cannot remove 'snap6.jpg': No such file or directory
rm: cannot remove 'film6.avi': No such file or directory
[student@servera work]$ rm 'song5.mp3' 'song6.mp3' 'snap5.jpg' 'snap6.jpg' 'film5.avi' 'film6.avi'
rm: cannot remove 'song5.mp3': No such file or directory
rm: cannot remove 'song6.mp3': No such file or directory
rm: cannot remove 'snap5.jpg': No such file or directory
rm: cannot remove 'snap6.jpg': No such file or directory
rm: cannot remove 'film5.avi': No such file or directory
rm: cannot remove 'film6.avi': No such file or directory
[student@servera work]$ ls -l
total 0
[student@servera work]$
```

🌈 Terakhir, dari studentdirektori home pengguna, gunakan perintah rmdir untuk menghapus workdirektori. Perintah harus berhasil sekarang karena kosong.

```
[student@servera work]$ cd
```

```
[student@servera ~]$ rmdir work
```

```
[student@servera ~]$ ls -l total 0
```

```
drwxrwxr-x. 2 student student 108 Feb 4 18:36 Music
```

```
drwxrwxr-x. 2 student student 108 Feb 4 18:36 Pictures
```

```
drwxrwxr-x. 2 student student 108 Feb 4 18:36 Videos
```

```
[student@servera work]$ cd
[student@servera ~]$ rmdir work
[student@servera ~]$ ls -l
total 0
drwxrwxr-x. 2 student student 109 Oct 11 11:59 Music
drwxrwxr-x. 2 student student 109 Oct 11 12:05 Pictures
drwxrwxr-x. 2 student student 109 Oct 11 12:06 Videos
[student@servera ~]$
```

🌈 Keluar dari servera

```
[student@servera~]$exit logout
```

```
Connection to servera closed. [student@workstation ~]$
```

```
[student@servera ~]$ exit
logout
Connection to servera closed.
[kiosk@foundation0 ~]$
```