### **Praktikum Cloud Computing Pertemuan 2**

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Materi: Pengenalan VMware Workstation dan Linux OS

#### -Pengenalan aplikasi VMware

Layer =>virtual os,aplikasi vmware,os pada komputer,hardware =>menjadi keterikatan / virtualisasi

Vmware => digunakan untuk virtualisasi sistem operasi

Swapping => digunakan jika komputer tidak memiliki RAM yang cukup untuk menjalankan VM

Edit->preference->memory->swap

-Memperbaiki konflik port pada xampp

Edit->preference->Shared VMs->disable sharing

-Instalasi OS

Kebutuhan = Linux OS (file ISO)

Proses instalasi OS

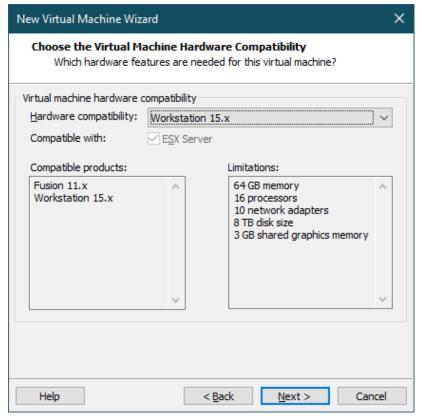
1. Klik Create new a virtual machine



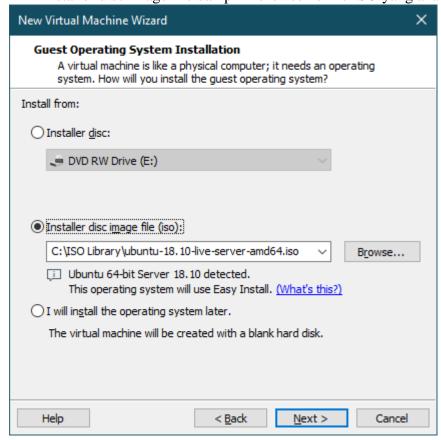
2. Pilih opsi custom (advance)



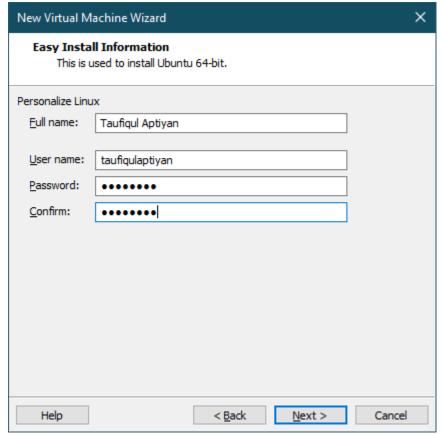
3. Pilih hardware compability sesuai dengan OS yang sudah terinstal dikomputer,lalu Next



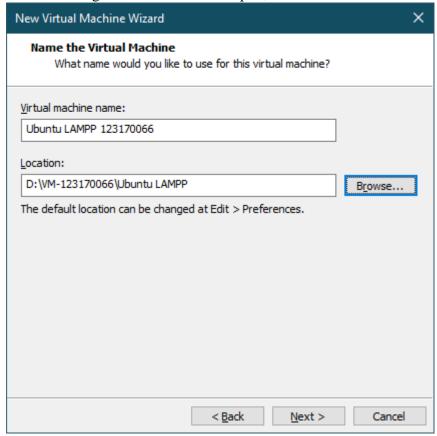
4. Pilih installer disc image file dan pilih browse ke file ISO yang akan diinstal



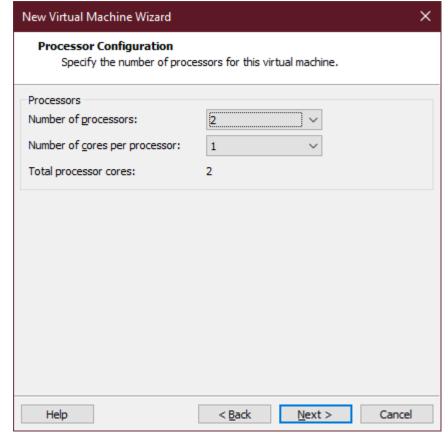
5. Isi Personalize Linux lalu next



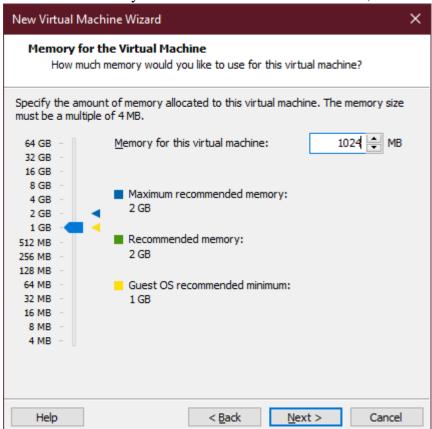
6. Isi sesuai dengan kebutuhan dan simpan,lalu next



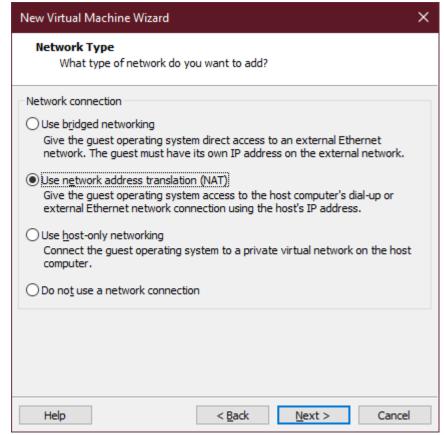
7. Pilih jumlah prosesor dan core sesuai dengan kebutuhan,lalu next



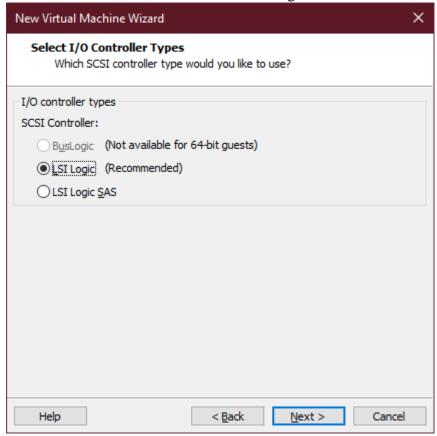
8. Pilih ukuran memory / RAM untuk vm sesuai kebutuhan,lalu next



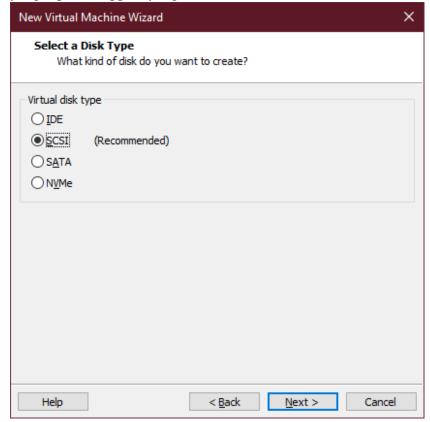
9. Pilih network connection sesuai kebutuhan,klik next



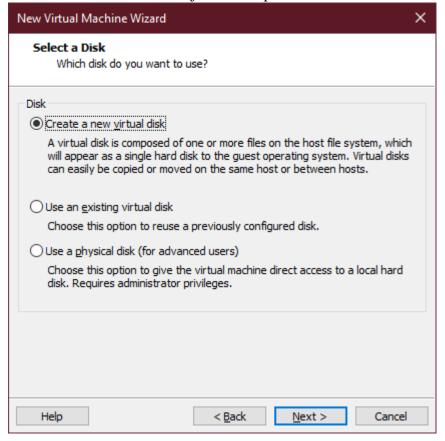
10. Pilih SCSI Controller, rekomendasi: LSI Logic



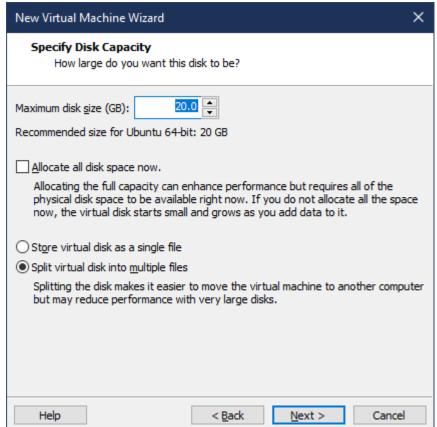
11. Pilih SCSI untuk rekomendasi,namun bisa memilih yang lain tergantung komputer yang dipakai support yang mana,lalu next



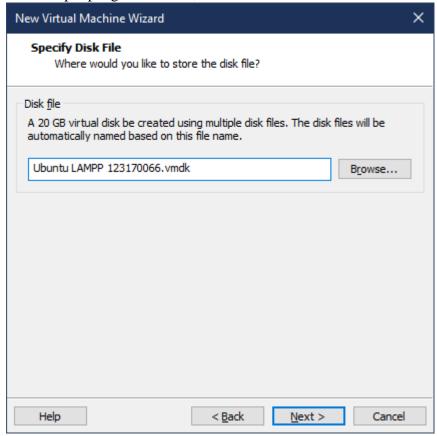
12. Pilih create new virtual disk jika belum pernah install vm



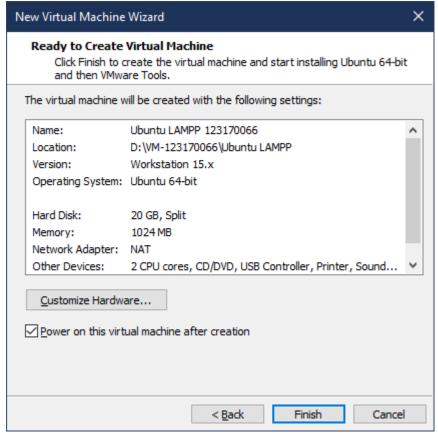
### 13. Pilih maksimum disk untuk vm



14. Pilih tempat penginstalan vm,lalu next

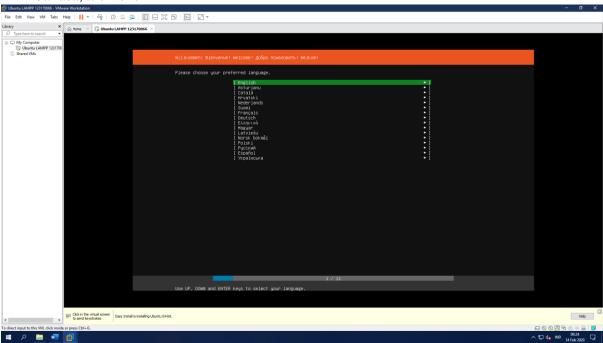


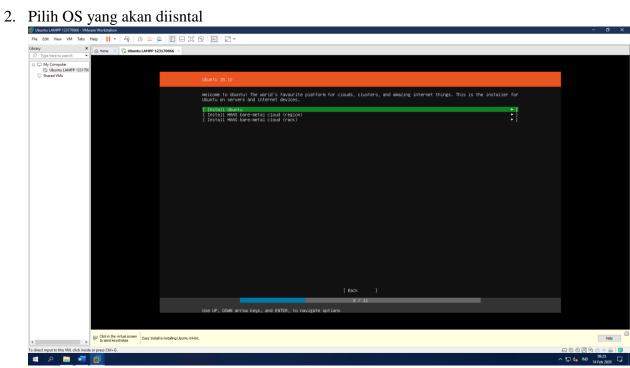
15. Konfirmasi intsalan vm,centang power on lalu klik finish



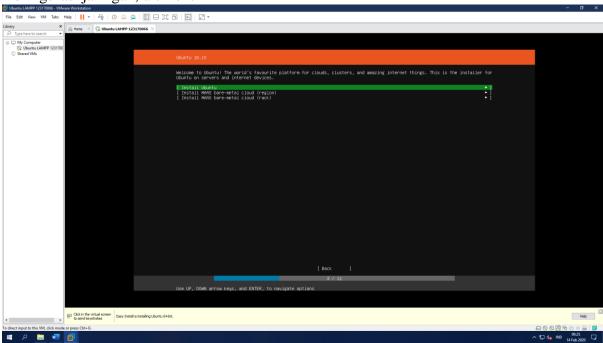
# Tahapan instalasi OS di vm

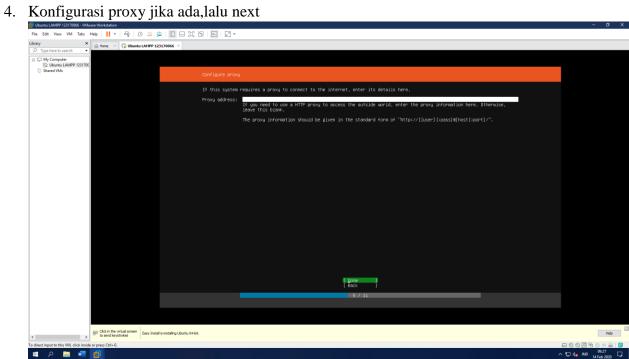
1. Pilih bahasa,lalu next



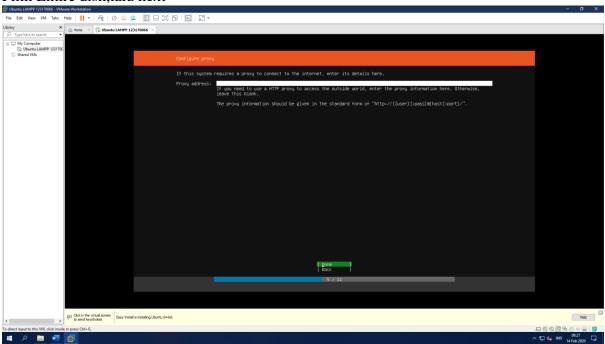


3. Konfigurasi jaringan,lalu next

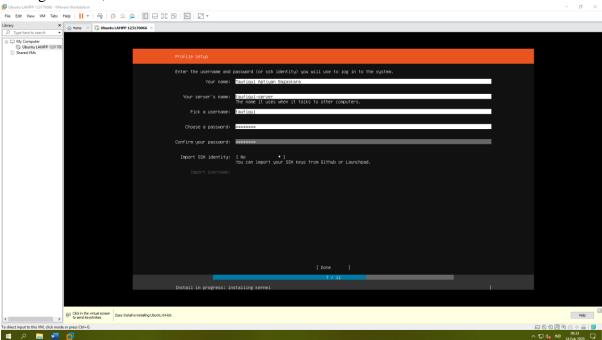




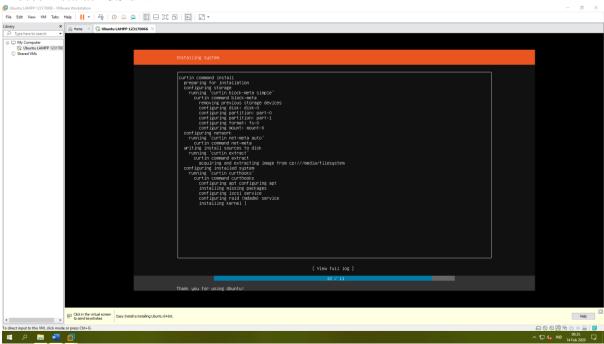
## 5. Pilih Entire disk,lalu next



# 6. Konfigurasi vm,lalu next



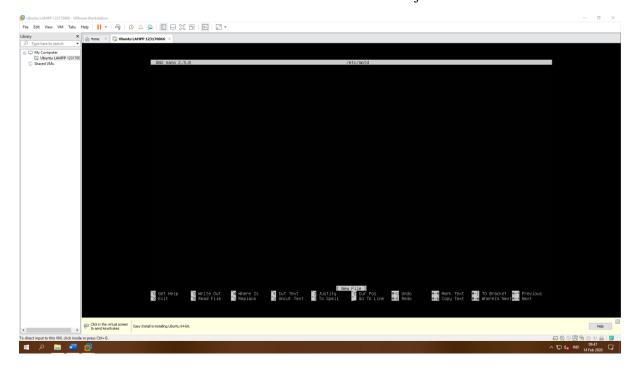
7. Proses instalasi OS di vm



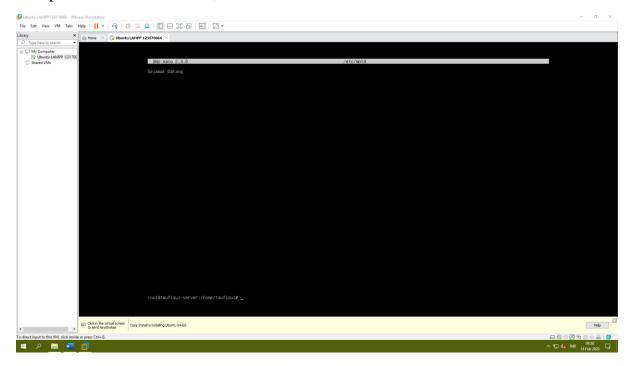
Mengganti welcome screen di OS

Masuk ke mode root,ketik : sudo su ,masukkan username dan password

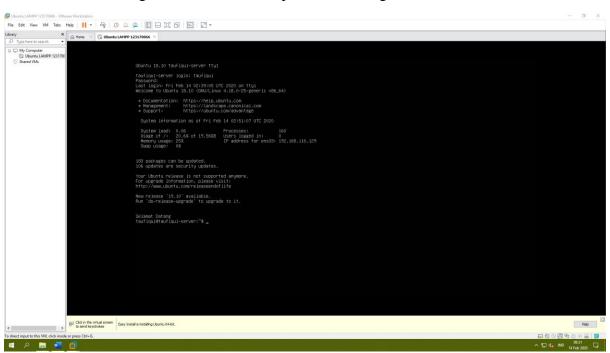
Ketikkan nano /etc/motd lalu enter dan ketikkan kata untuk dijadikan welcome screen



## Lalu pencet ctrl + o untuk save,lalu enter



### Lalu coba exit dan login kembali,maka tampilan sudah berganti



### Konfigurasi remote untuk server

Cari IP di welcome screen (pada ens33) atau ketik ifconfig

Buka aplikasi Putty dan ketikan di Host ip yang di server vm,lalu login di Putty

```
🧬 taufiqul@taufiqul-server: ~
                                                                         * Support:
                   https://ubuntu.com/advantage
  System information as of Fri Feb 14 02:55:10 UTC 2020
 System load: 0.19
                                   Processes:
                                                         165
 Usage of /: 20.6% of 19.56GB
                                   Users logged in:
 Memory usage: 26%
                                   IP address for ens33: 192.168.116.129
 Swap usage:
               0%
183 packages can be updated.
106 updates are security updates.
Your Ubuntu release is not supported anymore.
For upgrade information, please visit:
http://www.ubuntu.com/releaseendoflife
New release '19.10' available.
Run 'do-release-upgrade' to upgrade to it.
Selamat Datang
Last login: Fri Feb 14 02:51:07 2020
taufiqul@taufiqul-server:~$
```

### Ekplorasi command di Putty

#### 1.Ketik ls

```
🗗 taufiqul@taufiqul-server: ~
                                                                                    ×
  System information as of Fri Feb 14 02:55:10 UTC 2020
 System load: 0.19
Usage of /: 20.6% of 19.56GB
Memory usage: 26%
                                     Processes:
                                     Users logged in:
                                     IP address for ens33: 192.168.116.129
  Swap usage: 0%
183 packages can be updated.
106 updates are security updates.
Your Ubuntu release is not supported anymore.
For upgrade information, please visit:
http://www.ubuntu.com/releaseendoflife
New release '19.10' available.
Run 'do-release-upgrade' to upgrade to it.
Selamat Datang
Last login: Fri Feb 14 02:51:07 2020
taufiqul@taufiqul-server:~$ ls
taufiqul@taufiqul-server:~$
```

### 2.Ketik mkdir pertemuan-2 (membuat direktori pertemuan 2)

```
🧬 taufiqul@taufiqul-server: ~
  System information as of Fri Feb 14 02:55:10 UTC 2020
 System load: 0.19
Usage of /: 20.6% of 19.56GB
                                    Processes:
                                   Users logged in:
  Memory usage: 26%
                                   IP address for ens33: 192.168.116.129
  Swap usage: 0%
183 packages can be updated.
106 updates are security updates.
Your Ubuntu release is not supported anymore.
For upgrade information, please visit:
http://www.ubuntu.com/releaseendoflife
New release '19.10' available.
Run 'do-release-upgrade' to upgrade to it.
Selamat Datang
Last login: Fri Feb 14 02:51:07 2020
taufiqul@taufiqul-server:~$ ls
taufiqul@taufiqul-server:~$ mkdir pertemuan-2
taufiqul@taufiqul-server:~$
```

#### 3.Ketik ls -l

```
daufiqul@taufiqul-server: ~
  Swap usage: 0%
183 packages can be updated.
106 updates are security updates.
Your Ubuntu release is not supported anymore.
For upgrade information, please visit:
http://www.ubuntu.com/releaseendoflife
New release '19.10' available.
Run 'do-release-upgrade' to upgrade to it.
Selamat Datang
Last login: Fri Feb 14 02:51:07 2020
taufiqul@taufiqul-server:~$ ls
taufiqul@taufiqul-server:~$ mkdir pertemuan-2
taufiqul@taufiqul-server:~$ ls-l
ls-1: command not found
taufiqul@taufiqul-server:~$ ls -1
total 4
drwxrwxr-x 2 taufiqul taufiqul 4096 Feb 14 02:59 pertemuan-2
taufiqul@taufiqul-server:~$
```

#### 4.Ketik cp -r pertemuan-2 pertemuan-1

```
- □ X
 🕏 taufiqul@taufiqul-server: ~
183 packages can be updated.
106 updates are security updates.
Your Ubuntu release is not supported anymore.
For upgrade information, please visit:
http://www.ubuntu.com/releaseendoflife
New release '19.10' available.
Run 'do-release-upgrade' to upgrade to it.
Selamat Datang
Last login: Fri Feb 14 02:51:07 2020
taufiqul@taufiqul-server:~$ ls
taufiqul@taufiqul-server:~$ mkdir pertemuan-2
taufiqul@taufiqul-server:~$ ls-1
ls-1: command not found
taufiqul@taufiqul-server:~$ ls -l
drwxrwxr-x 2 taufiqul taufiqul 4096 Feb 14 02:59 pertemuan-2
taufiqul@taufiqul-server:~$ cp -r pertemuan-2 pertemuan-1
taufiqul@taufiqul-server:~$
```

#### 5.Ketik ls

```
daufigul@taufigul-server: ~
                                                                                183 packages can be updated.
106 updates are security updates.
Your Ubuntu release is not supported anymore.
For upgrade information, please visit:
http://www.ubuntu.com/releaseendoflife
New release '19.10' available.
Run 'do-release-upgrade' to upgrade to it.
Selamat Datang
Last login: Fri Feb 14 02:51:07 2020
taufiqul@taufiqul-server:~$ ls
taufiqul@taufiqul-server:~$ mkdir pertemuan-2
taufiqul@taufiqul-server:~$ ls-l
ls-1: command not found
taufiqul@taufiqul-server:~$ ls -l
total 4
drwxrwxr-x 2 taufiqul taufiqul 4096 Feb 14 02:59 pertemuan-2
taufiqul@taufiqul-server:~$ cp -r pertemuan-2 pertemuan-1 taufiqul@taufiqul-server:~$ ls
pertemuan-l pertemuan-2
taufiqul@taufiqul-server:~$
```

6.Ketik mv pertemuan-2 "pertemuan 2 LAMPP" lalu enter (memindahkan pertemuan 2)

```
taufiqul@taufiqul-server: ~
New release '19.10' available.
Run 'do-release-upgrade' to upgrade to it.
Selamat Datang
Last login: Fri Feb 14 02:51:07 2020
taufiqul@taufiqul-server:~$ ls
taufiqul@taufiqul-server:~$ mkdir pertemuan-2
taufiqul@taufiqul-server:~$ ls-l
1s-1: command not found
taufiqul@taufiqul-server:~$ ls -1
total 4
drwxrwxr-x 2 taufiqul taufiqul 4096 Feb 14 02:59 pertemuan-2
taufiqul@taufiqul-server:~$ cp -r pertemuan-2 pertemuan-1
taufiqul@taufiqul-server:~$ ls
taufiqul@taufiqul-server:~$ cd "pertemuan 2
> nano biodata.txt
> 123170066
> exit
taufiqul@taufiqul-server:~$ mv pertemuan-2 "pertemuan 2 LAMPP"
taufiqul@taufiqul-server:~$
```

7.Ketik ls lalu cd "pertemuan 2 lalu tab dan enter dan ketik nano biodata.txt

```
💆 taufiqul@taufiqul-server: ~/pertemuan 2 LAMPP
Selamat Datang
Last login: Fri Feb 14 02:51:07 2020
taufiqul@taufiqul-server:~$ ls
taufiqul@taufiqul-server:~$ mkdir pertemuan-2
taufiqul@taufiqul-server:~$ ls-1
ls-1: command not found
taufiqul@taufiqul-server:~$ ls -1
drwxrwxr-x 2 taufiqul taufiqul 4096 Feb 14 02:59 pertemuan-2
taufiqul@taufiqul-server:~$ cp -r pertemuan-2 pertemuan-1 taufiqul@taufiqul-server:~$ ls
taufiqul@taufiqul-server:~$ cd "pertemuan 2
> nano biodata.txt
> 123170066
taufiqul@taufiqul-server:~$ mv pertemuan-2 "pertemuan 2 LAMPP"
taufiqul@taufiqul-server:~$ ls
taufiqul@taufiqul-server:~$ cd "pertemuan 2 LAMPP"/
taufiqul@taufiqul-server:~/pertemuan 2 LAMPP$ nano biodata.txt
```

#### 8. Tulis NIM lalu save (ctrl o lalu exit ctrl x)

```
🗗 taufiqul@taufiqul-server: ~/pertemuan 2 LAMPP
Selamat Datang
Last login: Fri Feb 14 02:51:07 2020
taufiqul@taufiqul-server:~$ ls
taufiqul@taufiqul-server:~$ mkdir pertemuan-2
taufiqul@taufiqul-server:~$ ls-l
ls-1: command not found
taufiqul@taufiqul-server:~$ ls -l
drwxrwxr-x 2 taufiqul taufiqul 4096 Feb 14 02:59 pertemuan-2
taufiqul@taufiqul-server:~$ cp -r pertemuan-2 pertemuan-1
taufiqul@taufiqul-server:~$ ls
taufiqul@taufiqul-server:~$ cd "pertemuan 2
> nano biodata.txt
> 123170066
> exit
taufiqul@taufiqul-server:~$ mv pertemuan-2 "pertemuan 2 LAMPP"
taufiqul@taufiqul-server:~$ ls
taufiqul@taufiqul-server:~$ cd "pertemuan 2 LAMPP"/
taufiqul@taufiqul-server:~/pertemuan 2 LAMPP$ nano biodata.txt
taufiqul@taufiqul-server:~/pertemuan 2 LAMPP$
```

#### 9.Ketik ls-l

```
taufigul@taufigul-server: ~/pertemuan 2 LAMPP
taufiqul@taufiqul-server:~$ mkdir pertemuan-2
taufiqul@taufiqul-server:~$ ls-1
ls-1: command not found
taufiqul@taufiqul-server:~$ ls -1
drwxrwxr-x 2 taufiqul taufiqul 4096 Feb 14 02:59 pertemuan-2
taufiqul@taufiqul-server:~$ cp -r pertemuan-2 pertemuan-1
taufiqul@taufiqul-server:~$ ls
taufiqul@taufiqul-server:~$ cd "pertemuan 2
> nano biodata.txt
> 123170066
> exit
taufiqul@taufiqul-server:~$ mv pertemuan-2 "pertemuan 2 LAMPP"
taufiqul@taufiqul-server:~$ ls
taufiqul@taufiqul-server:~$ cd "pertemuan 2 LAMPP"/
taufiqul@taufiqul-server:~/pertemuan 2 LAMPP$ nano biodata.txt
taufiqul@taufiqul-server:~/pertemuan 2 LAMPP$ 1s -1
total 4
-rw-rw-r-- 1 taufiqul taufiqul 10 Feb 14 03:15 biodata.txt
taufiqul@taufiqul-server:~/pertemuan 2 LAMPP$
```

10.Ketik cat biodata.txt dan enter lalu ke nano biodata.txt lalu masukkkan perinath seperti menuliskan 1,2,3,4,5,6,7

```
×
 🗗 taufiqul@taufiqul-server: ~/pertemuan 2 LAMPP
                                                                          П
ls-1: command not found
taufiqul@taufiqul-server:~$ ls -l
total 4
drwxrwxr-x 2 taufiqul taufiqul 4096 Feb 14 02:59 pertemuan-2
taufiqul@taufiqul-server:~$ cp -r pertemuan-2 pertemuan-1
taufiqul@taufiqul-server:~$ ls
taufiqul@taufiqul-server:~$ cd "pertemuan 2
> nano biodata.txt
 123170066
> exit
taufiqul@taufiqul-server:~$ mv pertemuan-2 "pertemuan 2 LAMPP"
taufiqul@taufiqul-server:~$ ls
taufiqul@taufiqul-server:~$ cd "pertemuan 2 LAMPP"/
taufiqul@taufiqul-server:~/pertemuan 2 LAMPP$ nano biodata.txt
taufiqul@taufiqul-server:~/pertemuan 2 LAMPP$ ls -1
total 4
-rw-rw-r-- 1 taufiqul taufiqul 10 Feb 14 03:15 biodata.txt
taufiqul@taufiqul-server:~/pertemuan 2 LAMPP$ cat biodata.txt
123170066
taufiqul@taufiqul-server:~/pertemuan 2 LAMPP$ nano biodata.txt
```

11.Ketik cat biodata txt untuk menampilkan semua data biodata.txt

```
## taufiqul@taufiqul-server: ~/pertemuan 2 LAMPP$ cat biodata.txt

taufiqul@taufiqul-server: ~/pertemuan 2 LAMPP$ cat biodata.txt

123170066

1
2
3
4
5
6
7
8
9
10
11
12
13
14
15
16
17
18
19
20
taufiqul@taufiqul-server: ~/pertemuan 2 LAMPP$
```

# 12.Ketik tail biodata.txt untuk menampilkan data tail dari biodata.txt