



LEMBAR KERJA PRAKTIKUM CLOUD COMPUTING

INSTALASI DAN KONFIGURASI LAYANAN FILE SHARING DENGAN FREENAS

IDENTITAS:

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Kelas:	E
Hari, Tanggal:	Rabu, 4 Maret 2020

CONTOH ISIAN DAN PETUNJUK:

1. **[Contoh]** Gunakan ISO FreeNAS-11.2-U5 di folder ISO Library



2. **[Contoh]** Deskripsikan parameter yang digunakan untuk keluar dari akun root

```
$ exit
```

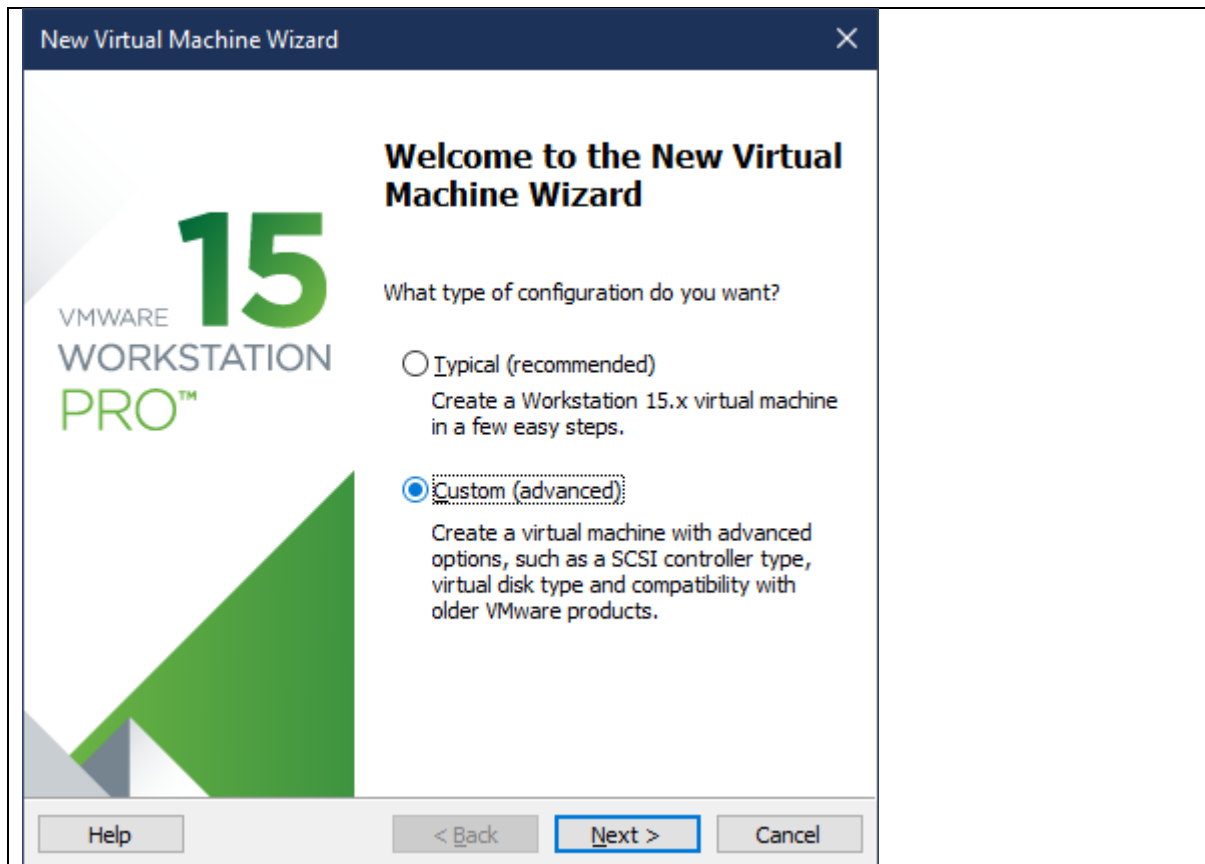
Perintah exit digunakan untuk keluar dari sesi akun aktif

3. **[Contoh]** Tampilkan pesan kesalahan pada saat login PHPMYAdmin

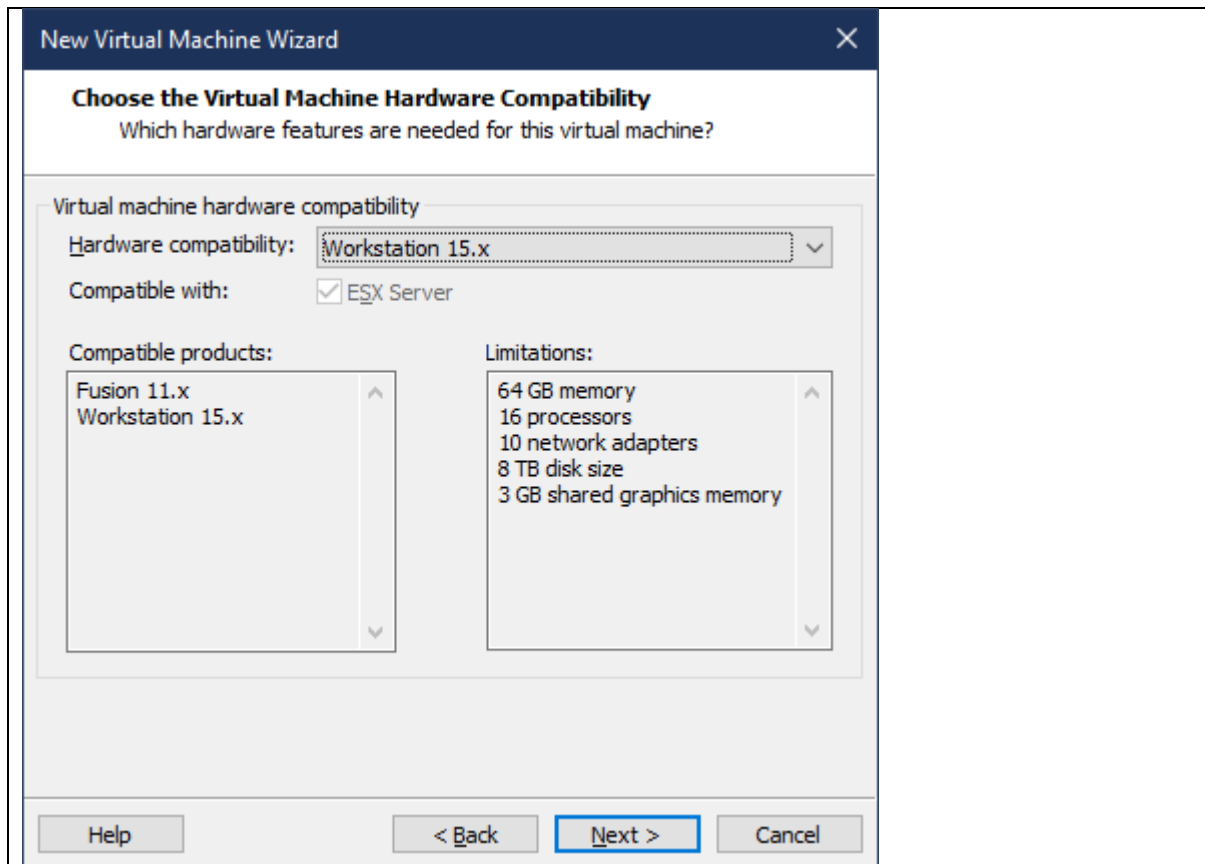


TUGAS BAGIAN PERTAMA – PEMBUATAN VM:

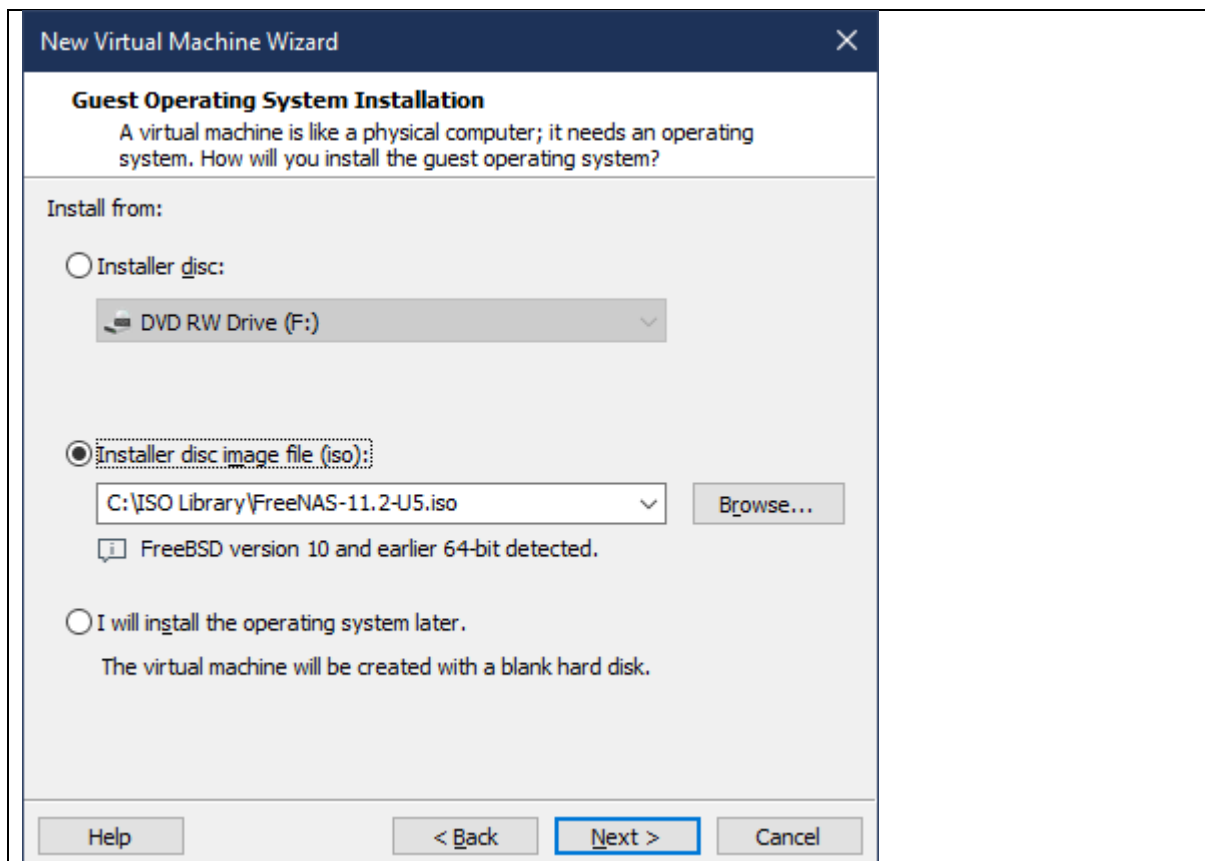
1. Gunakan opsi konfigurasi Custom



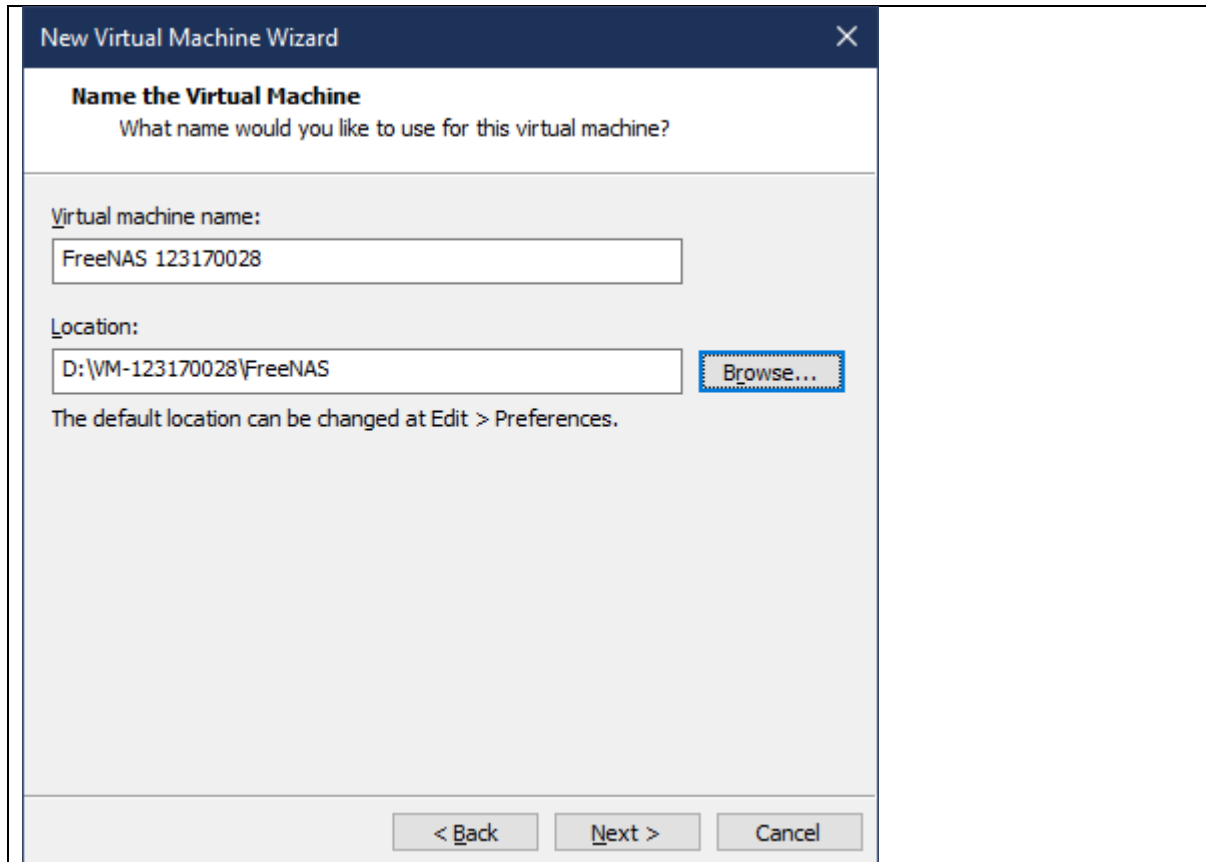
2. Gunakan compatibility Workstation 15.X



3. Gunakan ISO FreeNAS-11.2-U5 di folder ISO Library



4. Format nama VM: **FreeNAS NIM** dan buat folder **FreeNAS** di dalam **VM-NIM**



New Virtual Machine Wizard

Name the Virtual Machine
What name would you like to use for this virtual machine?

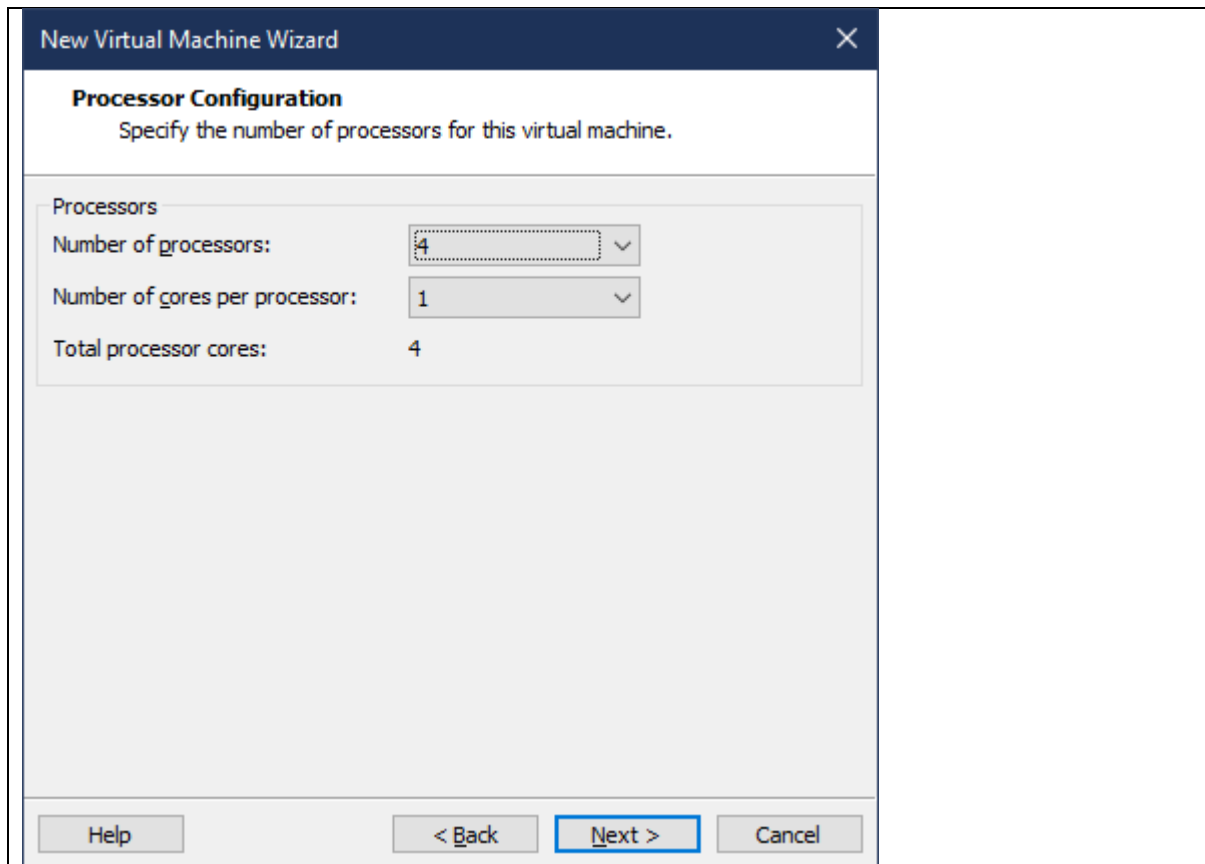
Virtual machine name:
FreeNAS 123170028

Location:
D:\VM-123170028\FreeNAS [Browse...](#)

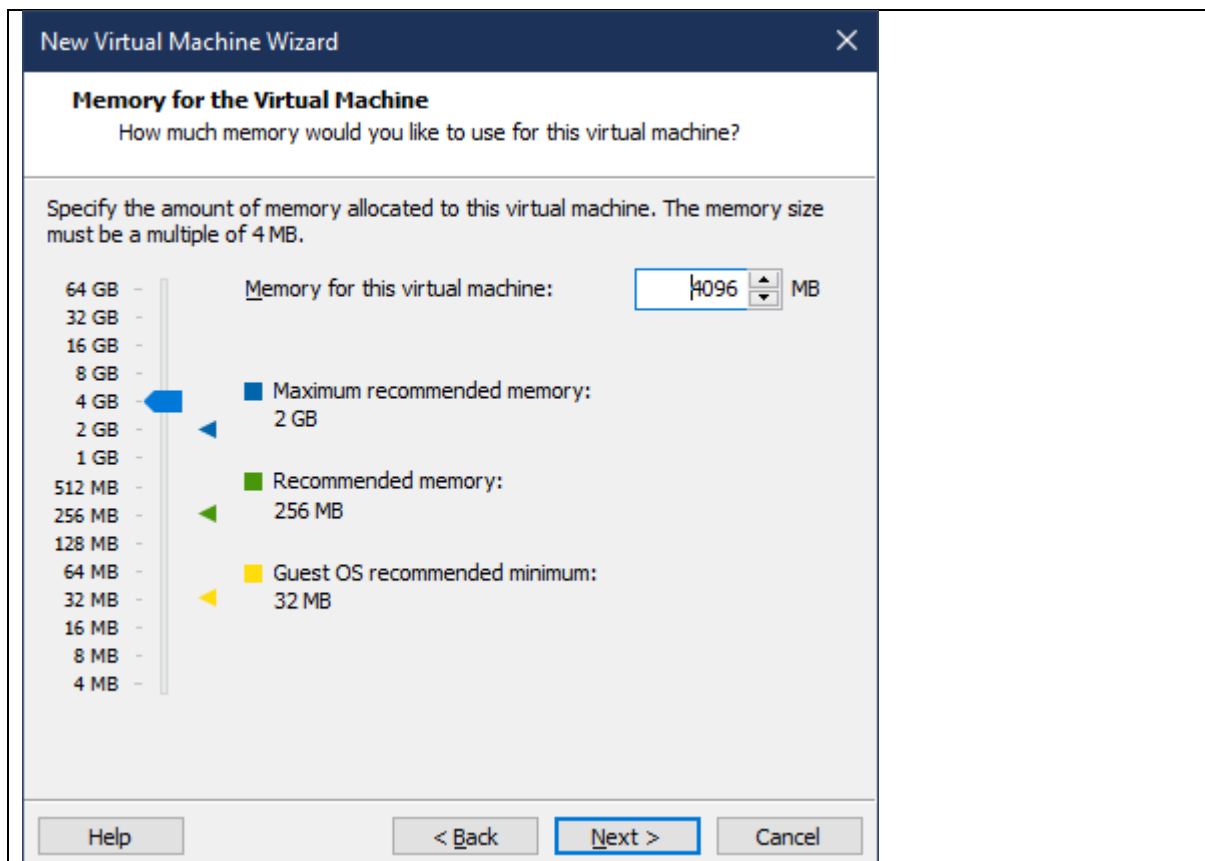
The default location can be changed at Edit > Preferences.

< Back Next > Cancel

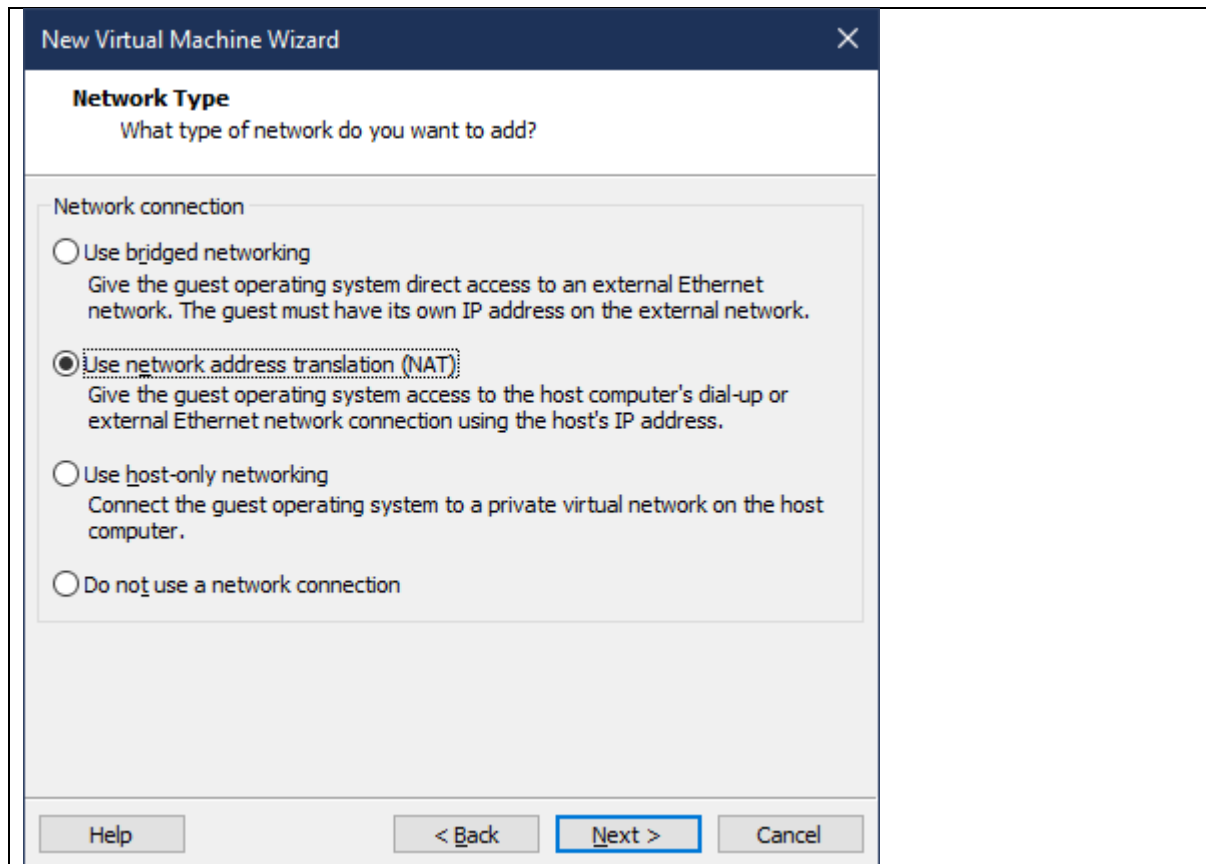
5. Gunakan 4 processor dan 1 core



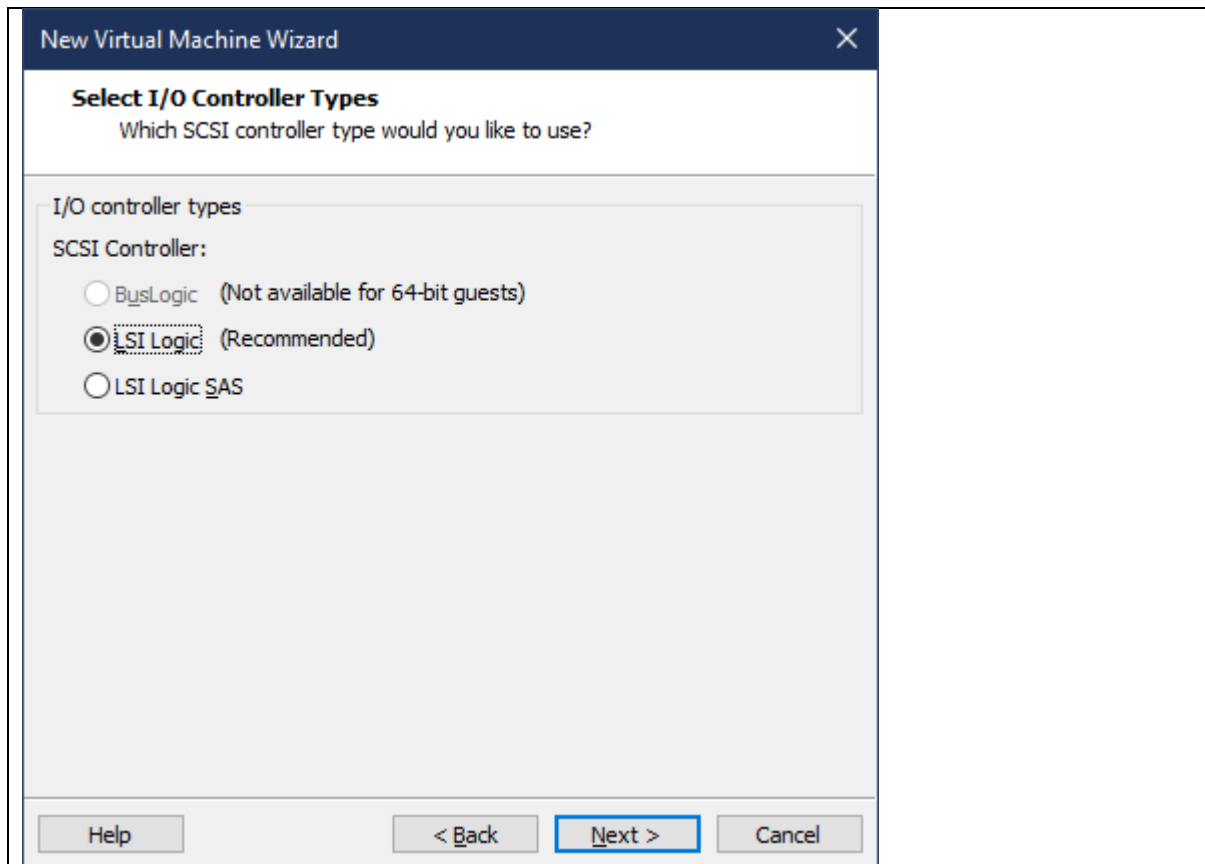
6. Gunakan RAM sebesar 4 GB



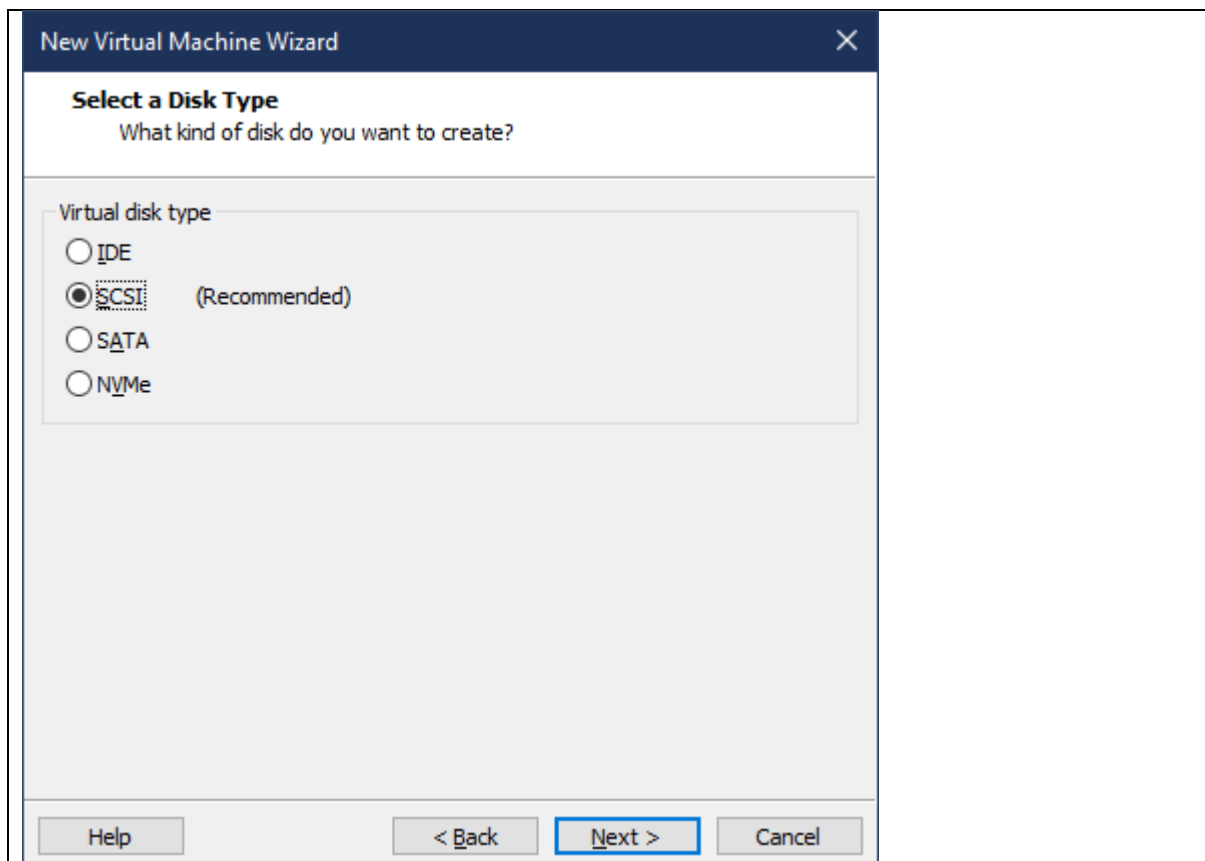
7. Gunakan mode jaringan NAT



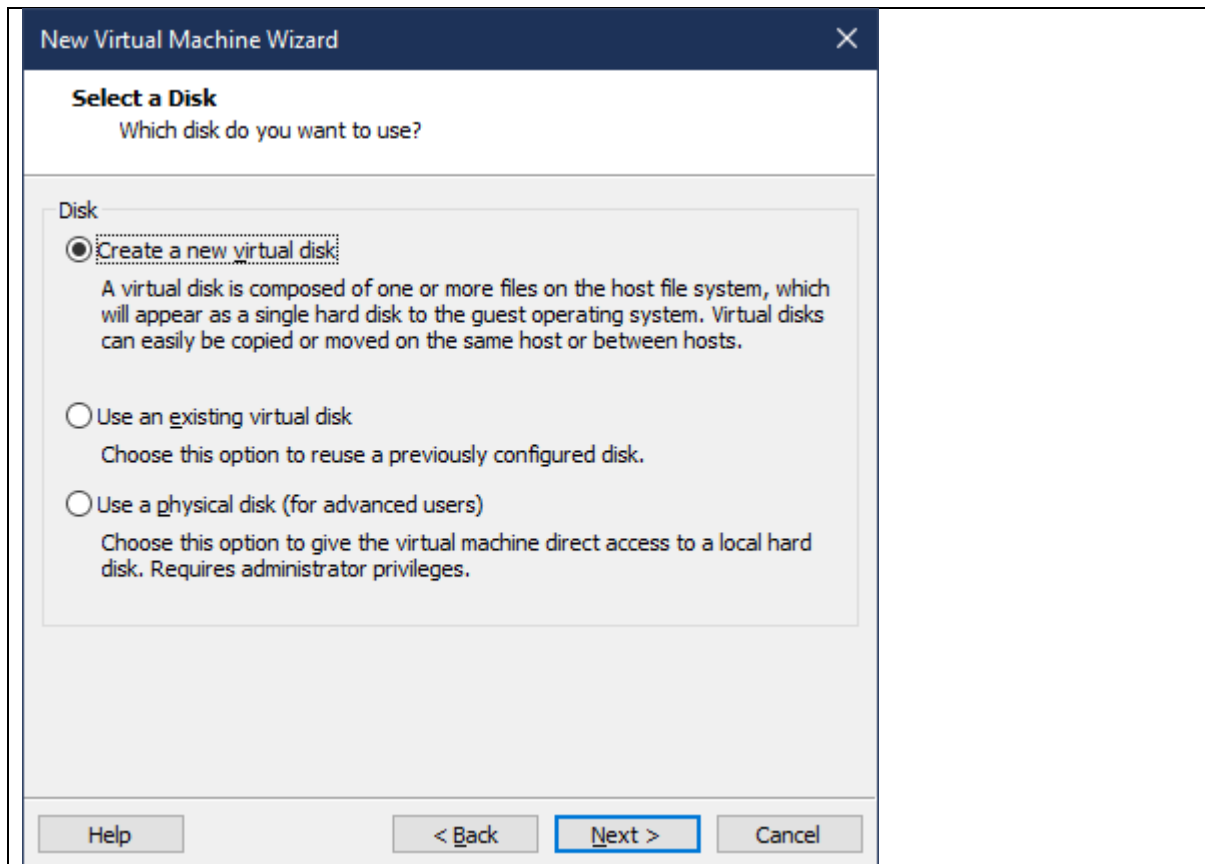
8. Gunakan pengaturan default I/O Controller



9. Gunakan pengaturan default Virtual Disk Type



10. Pilih opsi buat virtual disk baru



11. Buat disk untuk sistem sebesar 10 GB dengan mode Split dan hilangkan checklist allocate disk

The screenshot shows the 'New Virtual Machine Wizard' window, specifically the 'Specify Disk Capacity' step. The title bar reads 'New Virtual Machine Wizard' with a close button. The main heading is 'Specify Disk Capacity' with the subtext 'How large do you want this disk to be?'. Below this, there is a 'Maximum disk size (GB):' label followed by a text box containing '10' and a small up/down arrow control. A note states 'Recommended size for FreeBSD version 10 and earlier 64-bit: 20 GB'. There are two radio button options: 'Allocate all disk space now.' (unchecked) and 'Split virtual disk into multiple files' (checked). A descriptive text for the checked option says 'Splitting the disk makes it easier to move the virtual machine to another computer but may reduce performance with very large disks.' At the bottom, there are four buttons: 'Help', '< Back', 'Next >' (highlighted with a blue border), and 'Cancel'.

New Virtual Machine Wizard

Specify Disk Capacity
How large do you want this disk to be?

Maximum disk size (GB): 10

Recommended size for FreeBSD version 10 and earlier 64-bit: 20 GB

☐ Allocate all disk space now.
Allocating the full capacity can enhance performance but requires all of the physical disk space to be available right now. If you do not allocate all the space now, the virtual disk starts small and grows as you add data to it.

☐ Store virtual disk as a single file

☒ Split virtual disk into multiple files
Splitting the disk makes it easier to move the virtual machine to another computer but may reduce performance with very large disks.

Help < Back Next > Cancel

12. Gunakan pengaturan default untuk nama disk

The screenshot shows the 'New Virtual Machine Wizard' window, specifically the 'Specify Disk File' step. The title bar reads 'New Virtual Machine Wizard' with a close button. The main heading is 'Specify Disk File' with the subtext 'Where would you like to store the disk file?'. Below this, there is a 'Disk file' section with a text box containing 'FreeNAS 123170028.vmdk' and a 'Browse...' button. A note states 'A 10 GB virtual disk be created using multiple disk files. The disk files will be automatically named based on this file name.' At the bottom, there are four buttons: 'Help', '< Back', 'Next >' (highlighted with a blue border), and 'Cancel'.

New Virtual Machine Wizard

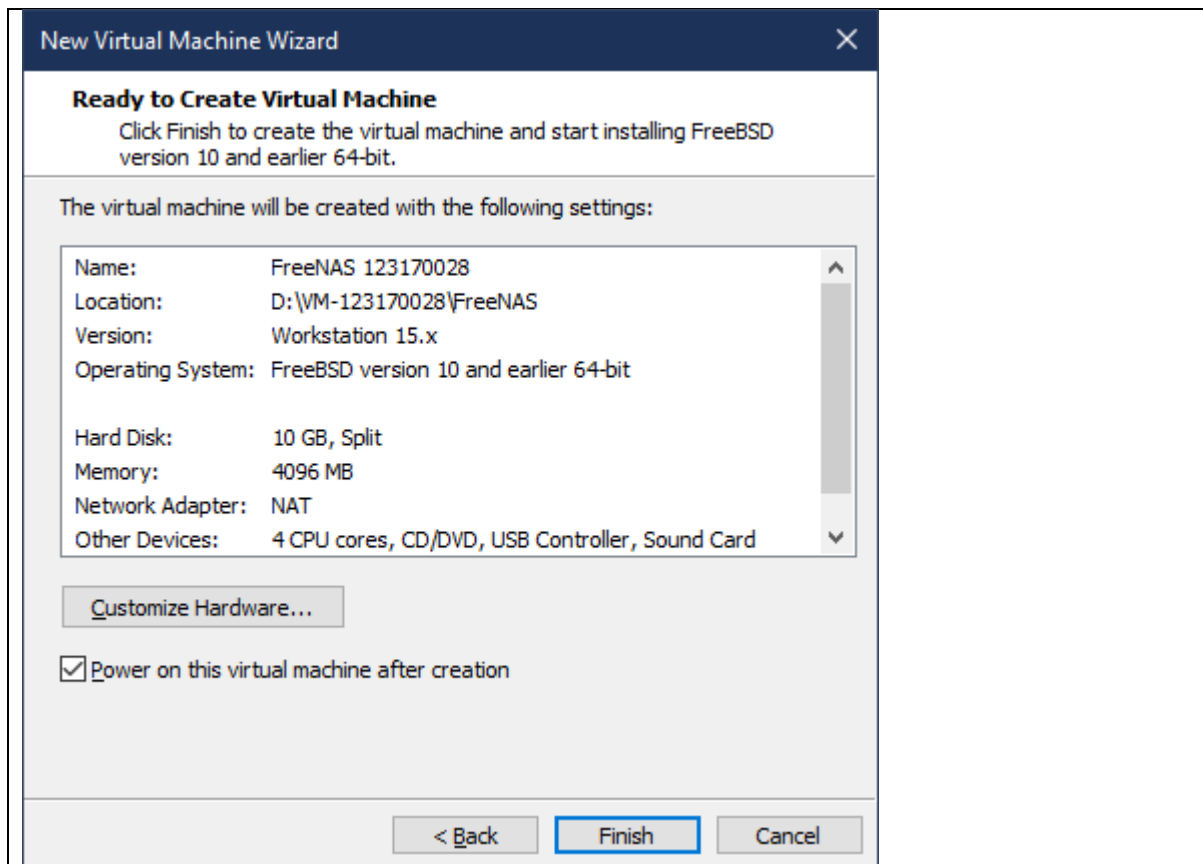
Specify Disk File
Where would you like to store the disk file?

Disk file
A 10 GB virtual disk be created using multiple disk files. The disk files will be automatically named based on this file name.

FreeNAS 123170028.vmdk Browse...

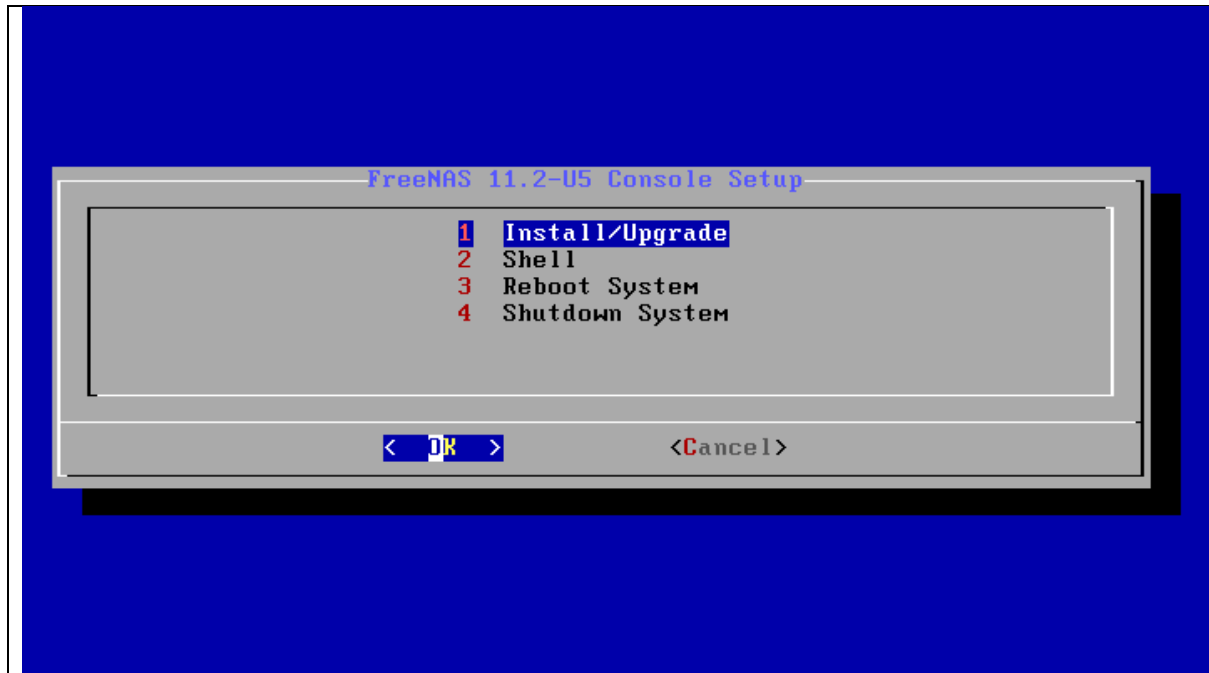
Help < Back Next > Cancel

13. Tampilkan tangkapan layar dari ringkasan konfigurasi Virtual Machine (tahap akhir Wizard) lalu nyalakan VM

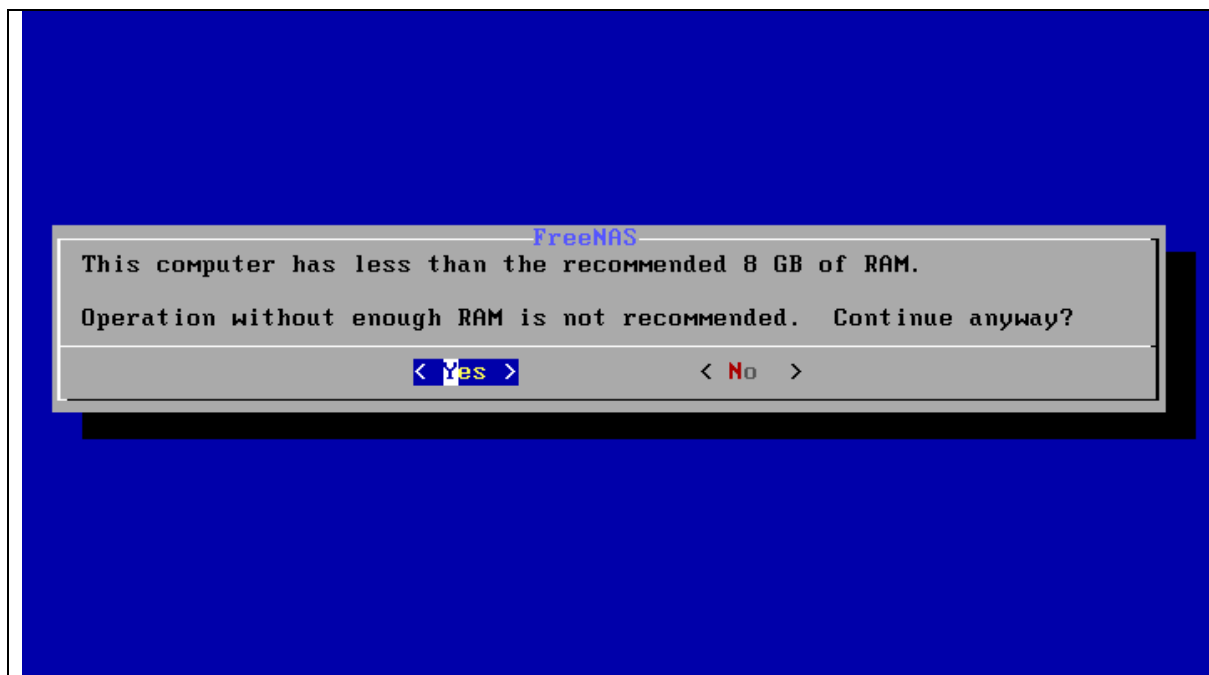


TUGAS BAGIAN KEDUA – INSTALASI FREENAS:

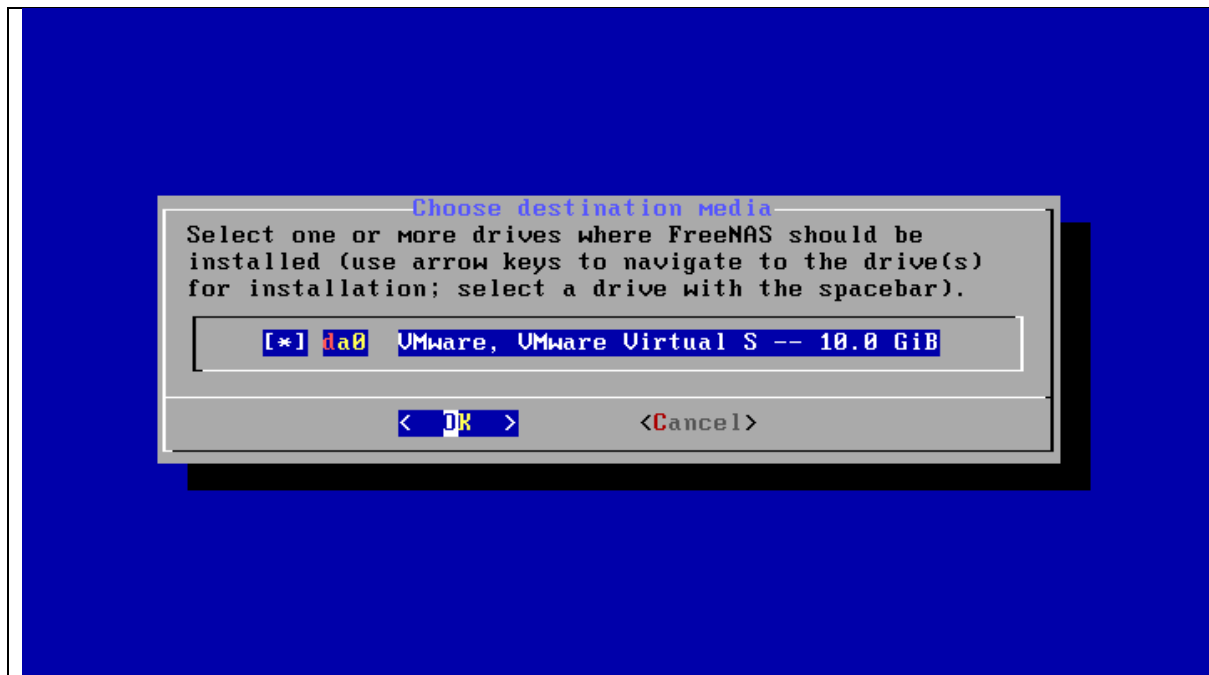
1. Tampilan awal tahap instalasi FreeNAS, pilih Install/Upgrade



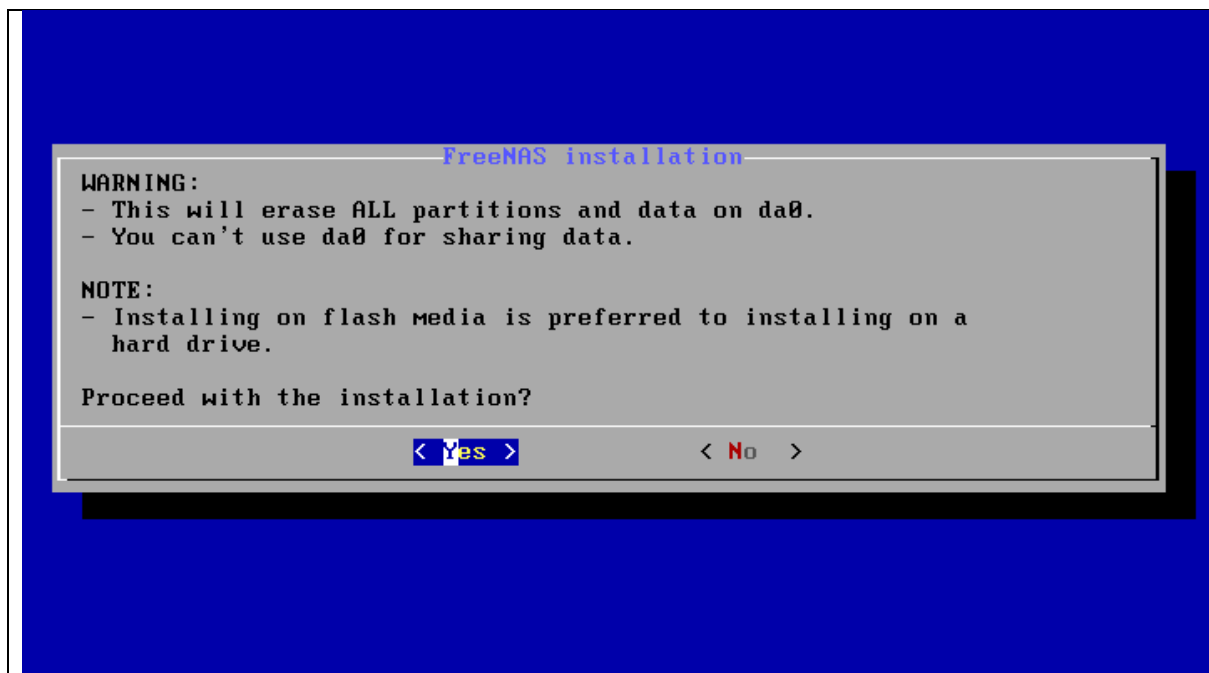
2. Tampilan warning RAM kurang dari 8GB, pilih Yes



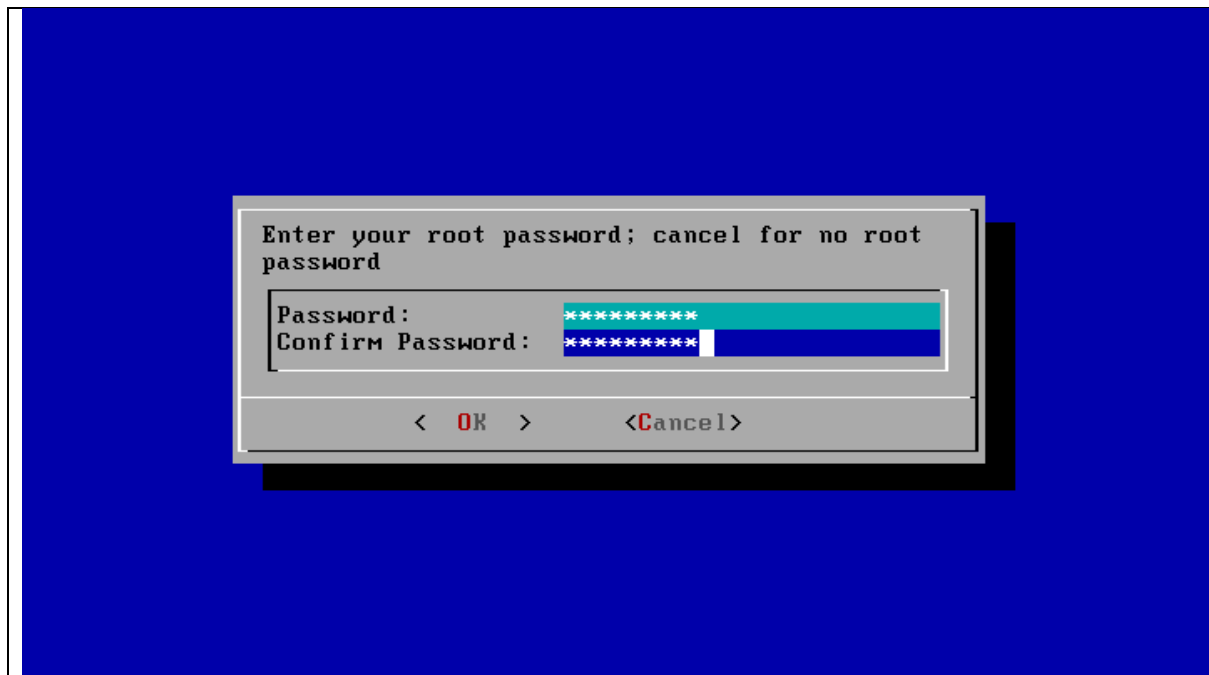
3. Tampilan pemilihan destination media untuk dipasang FreeNAS, pilih da0



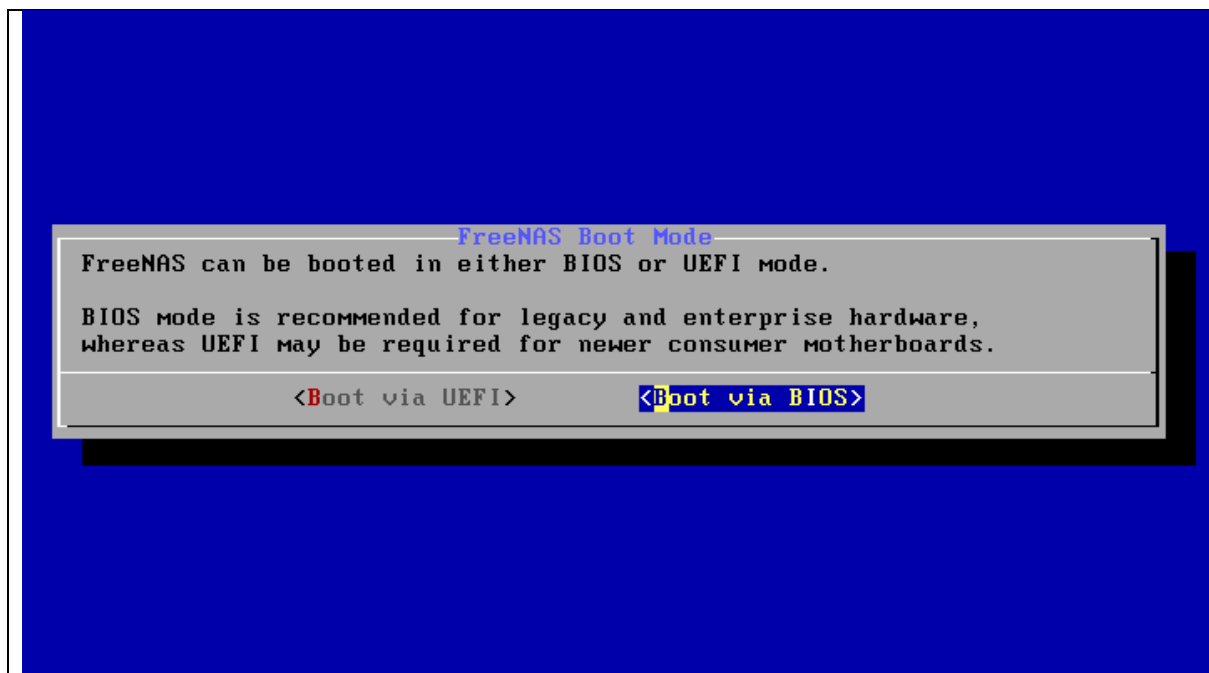
4. Tampilan konfirmasi penghapusan/format media yang terpilih, pilih Yes



5. Tampilan pengaturan kata sandi, gunakan NIM atau bebas



6. Tampilan mode boot dari FreeNAS, pilih BIOS



7. Tampilan proses instalasi FreeNAS

```

2+0 records in
2+0 records out
2097152 bytes transferred in 0.035323 secs (59370379 bytes/sec)
dd: /dev/da0: end of device
3+0 records in
2+0 records out
2097152 bytes transferred in 0.006147 secs (341193335 bytes/sec)
da0 created
da0p1 added
da0p2 added
gmirror: Invalid class name.
da0 destroyed
da0 created
da0p1 added
da0p2 added
active set on da0
random: unblocking device.
Installing base-os (1 of 4)
..

```

8. Tampilan hasil akhir proses instalasi FreeNAS, pilih OK kemudian pilih Reboot System

```

The FreeNAS installation on da0 succeeded!
Please reboot and remove the installation media.

```

< **OK** >

9. Tampilan proses booting menuju FreeNAS OS

```

  _____
 /         \
|   _   _   |
|  (o)  (o) |
|   _   _   |
|_____|_____|
Welcome to FreeNAS

1. Boot FreeNAS [Enter]
2. Boot FreeNAS (Serial Console)

Options:
3. Configure Boot Options...
4. Select Boot Environment...

+mmhs/. .:~sydmNMM
hMMMMMMdydNMMMMMMMMM:
yMMMMMMMMMMMMMMMMNNNo
/MMMMMMMMMMMMMMMMMho.
NMMMMMMMMMMMMMMMMM: ' .:yN
MMMMMMMMMMMMMMMMMmNmdmymNMMo
MMMMMMMMMMMMMMMMMs./yMMMMMMMy-
:NMMMMMMMMMMMMM. 'oMMM-
-mMMMMMMMMMMMMMo/:/yNMh.
.mhdMMMMMMMMMMMMMh/
+' '+yMMMMMMMMNMy+'

Autoboot in 1 seconds. [Space] to pause

```

10. Tampilan hasil akhir booting yang menunjukkan Console Setup

```

Tue Mar  3 22:56:33 PST 2020
FreeBSD/amd64 (freenas.local) (ttyv0)

Console setup
-----
1) Configure Network Interfaces
2) Configure Link Aggregation
3) Configure VLAN Interface
4) Configure Default Route
5) Configure Static Routes
6) Configure DNS
7) Reset Root Password
8) Reset Configuration to Defaults
9) Shell
10) Reboot
11) Shut Down

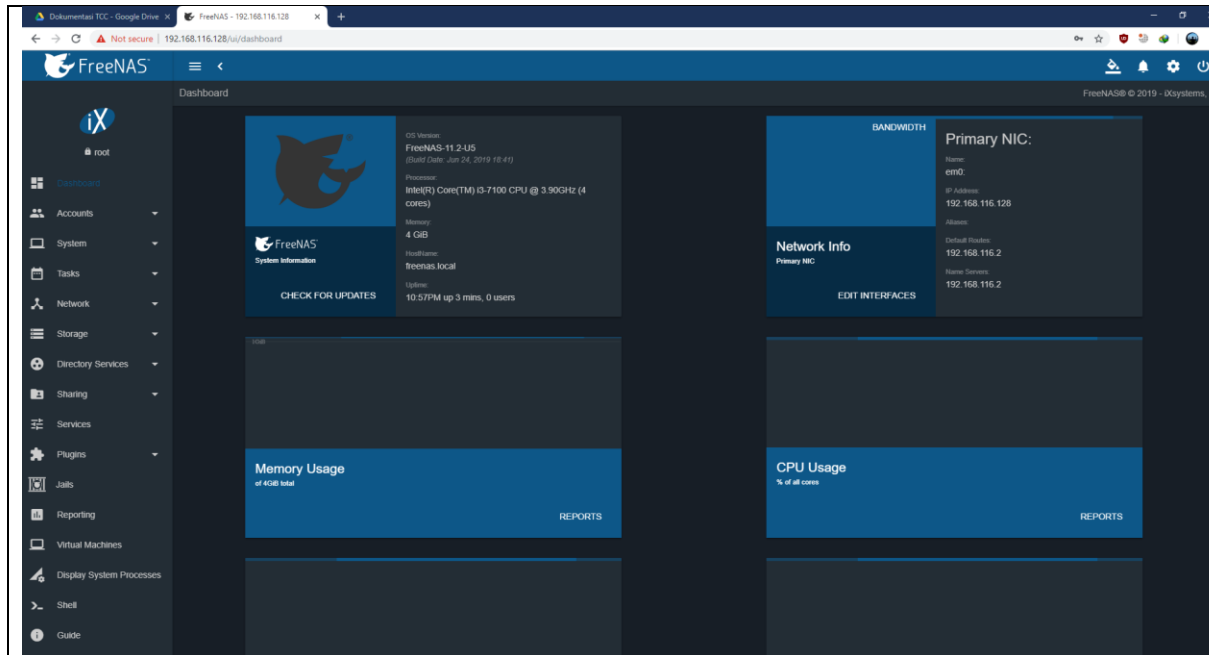
The web user interface is at:
http://192.168.116.128

Enter an option from 1-11: █

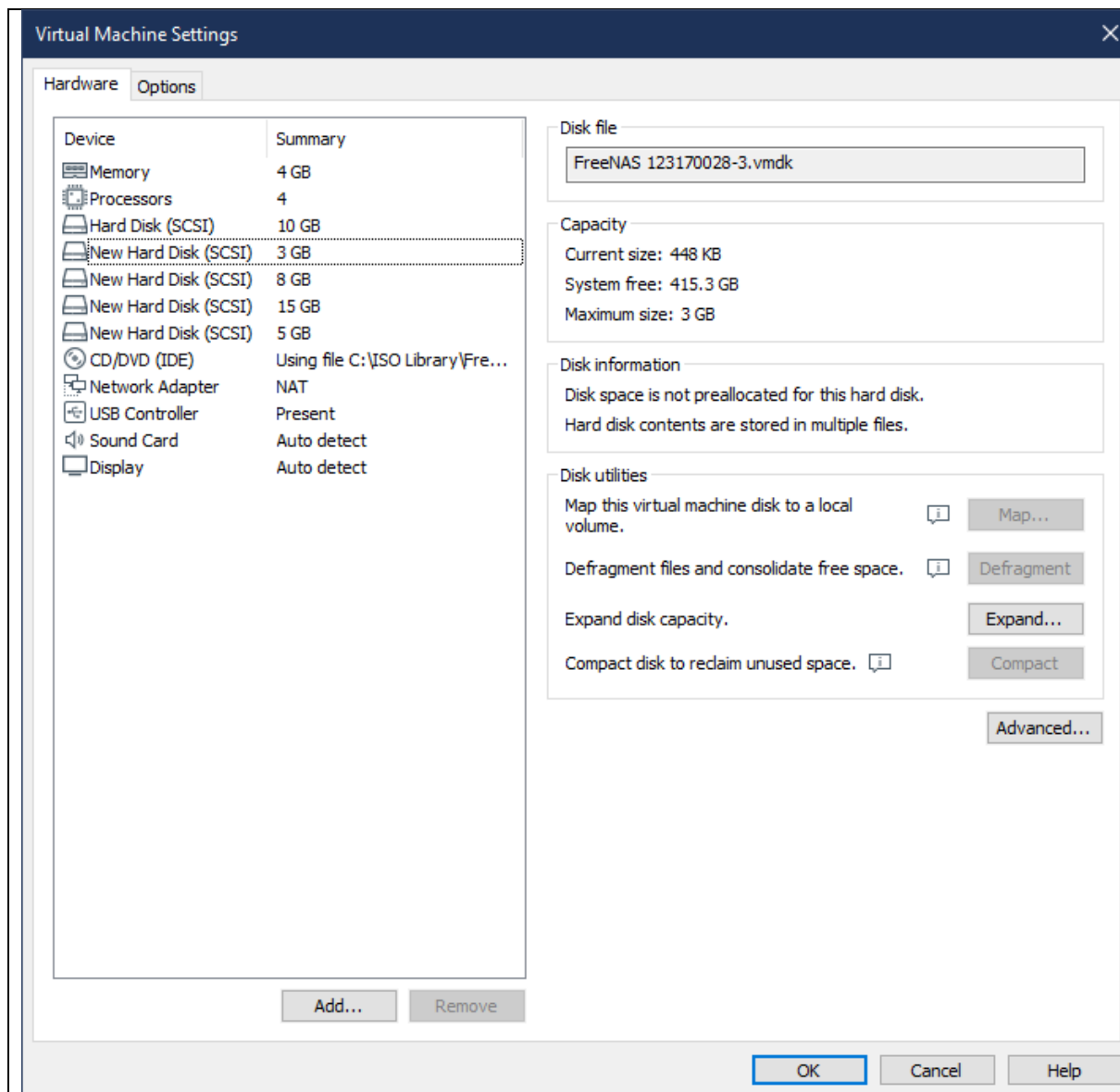
```


TUGAS BAGIAN KETIGA – KONFIGURASI FREENAS:

1. Tampilan dashboard setelah login FreeNAS



2. Tampilan konfigurasi VM pada Eksperimen #1



3. Tampilan IP pada dashboard Console Setup pada Eksperimen #2

```

Tue Mar  3 23:10:26 PST 2020
FreeBSD/amd64 (freenas.local) (ttyv0)

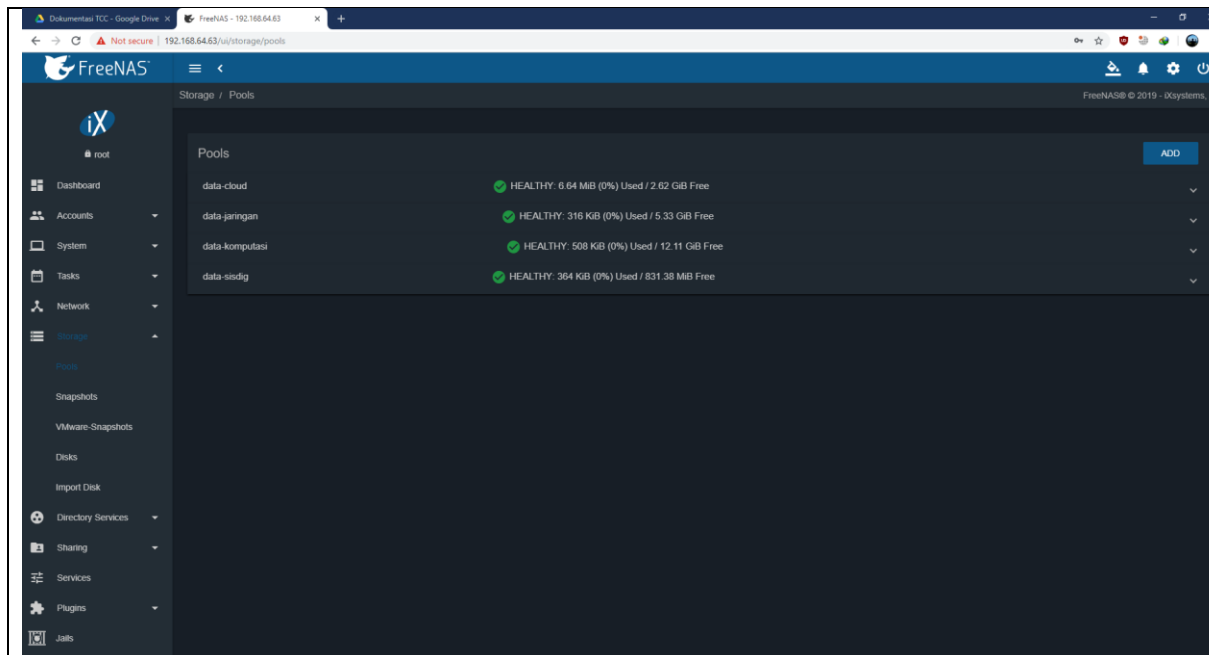
Console setup
-----

1) Configure Network Interfaces
2) Configure Link Aggregation
3) Configure VLAN Interface
4) Configure Default Route
5) Configure Static Routes
6) Configure DNS
7) Reset Root Password
8) Reset Configuration to Defaults
9) Shell
10) Reboot
11) Shut Down

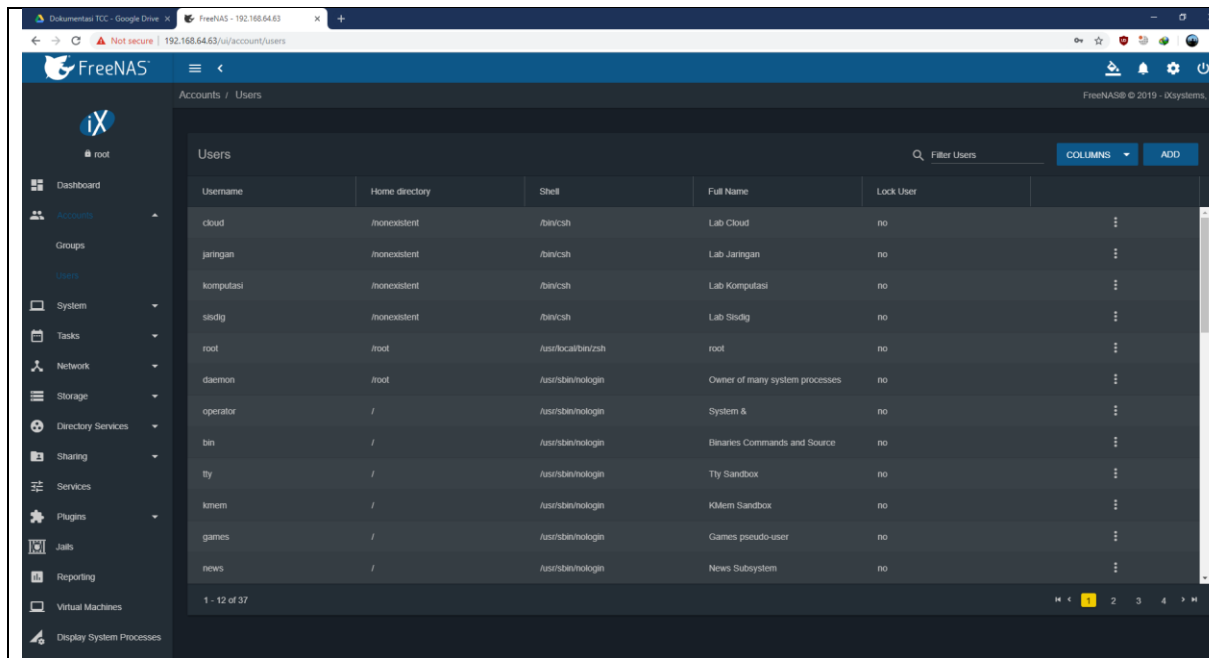
The web user interface is at:
http://192.168.64.63
Enter an option from 1-11:

```

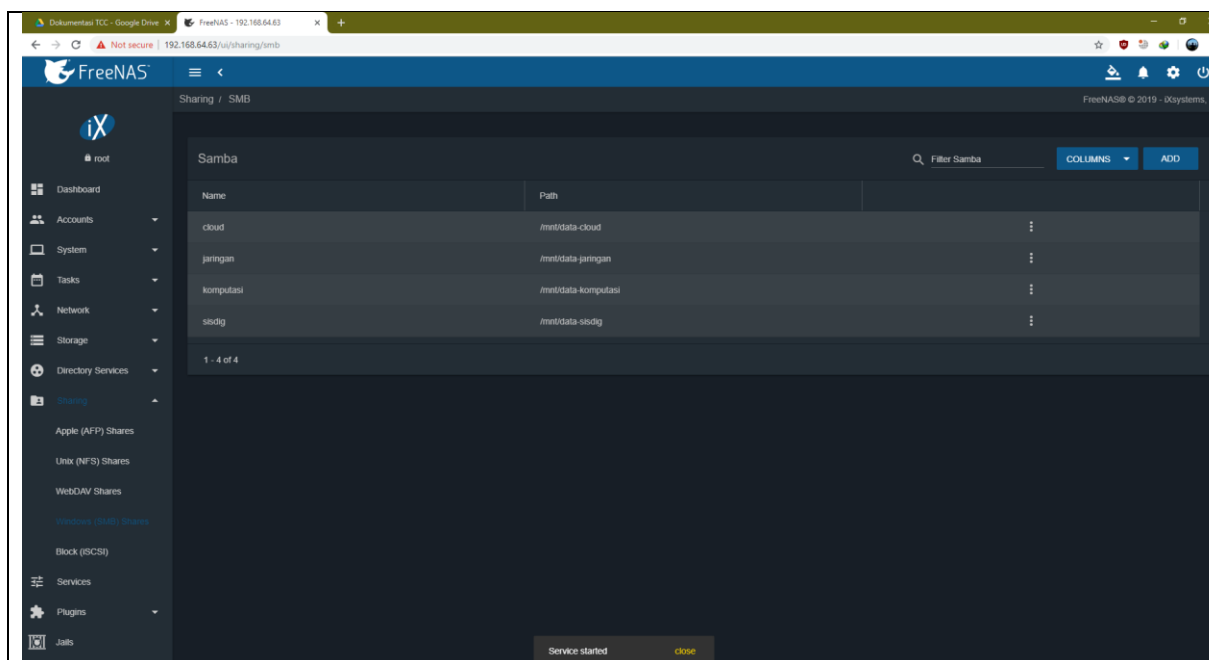
4. Tampilkan hasil dari pembuatan pools tambahan pada menu Storage -> Pools



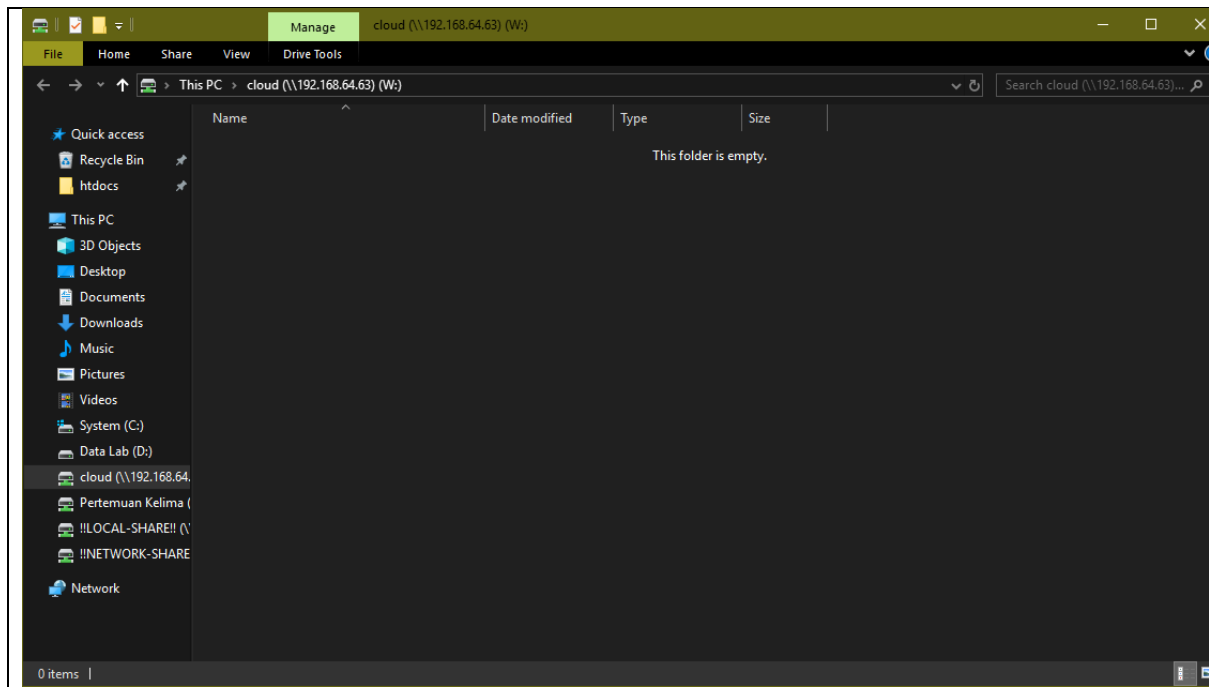
5. Tampilkan hasil dari pembuatan user tambahan pada menu Accounts -> Users



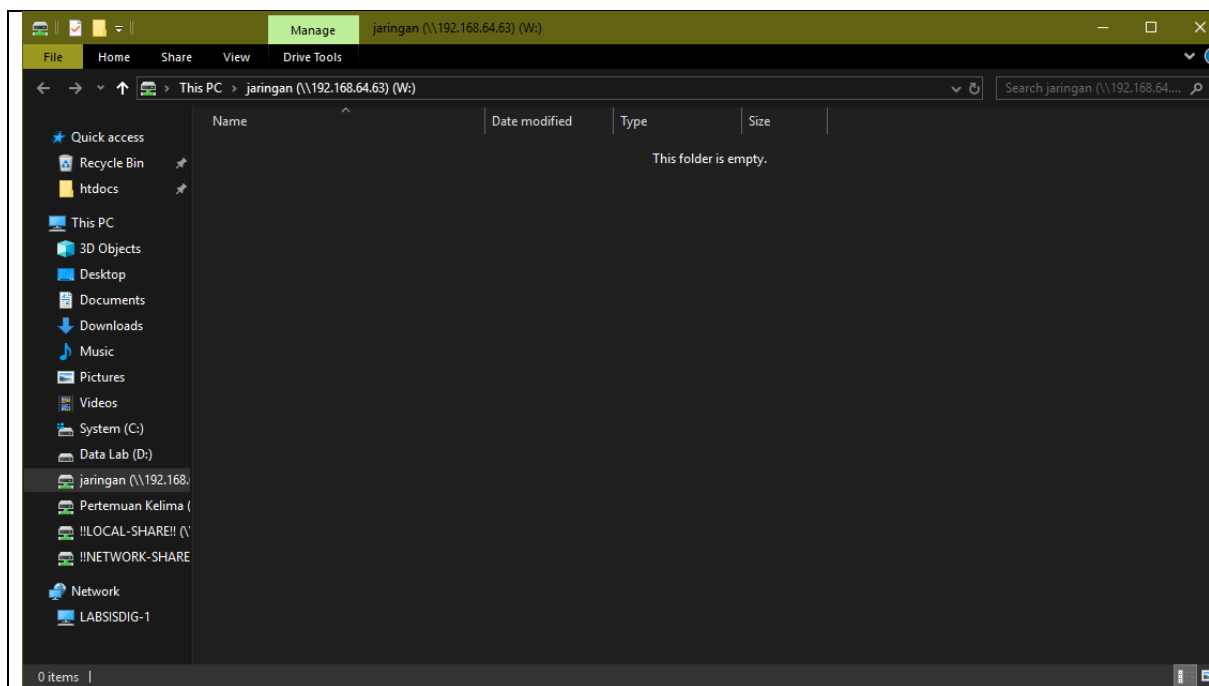
6. Tampilkan hasil dari pembuatan shares tambahan untuk 4 lab pada menu Sharing -> Windows (SMB) Shares



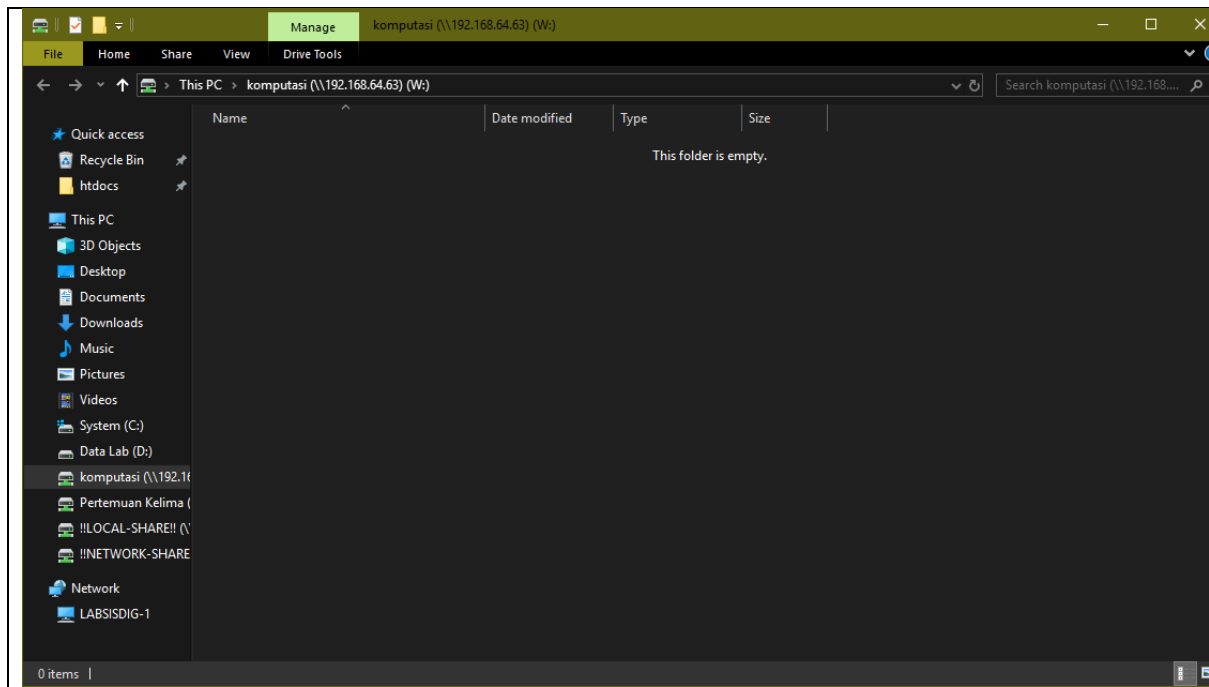
7. Tampilkan hasil akses shares pada Windows Explorer (hasil mapping) untuk Lab Cloud (yang pertama kali dibuat)



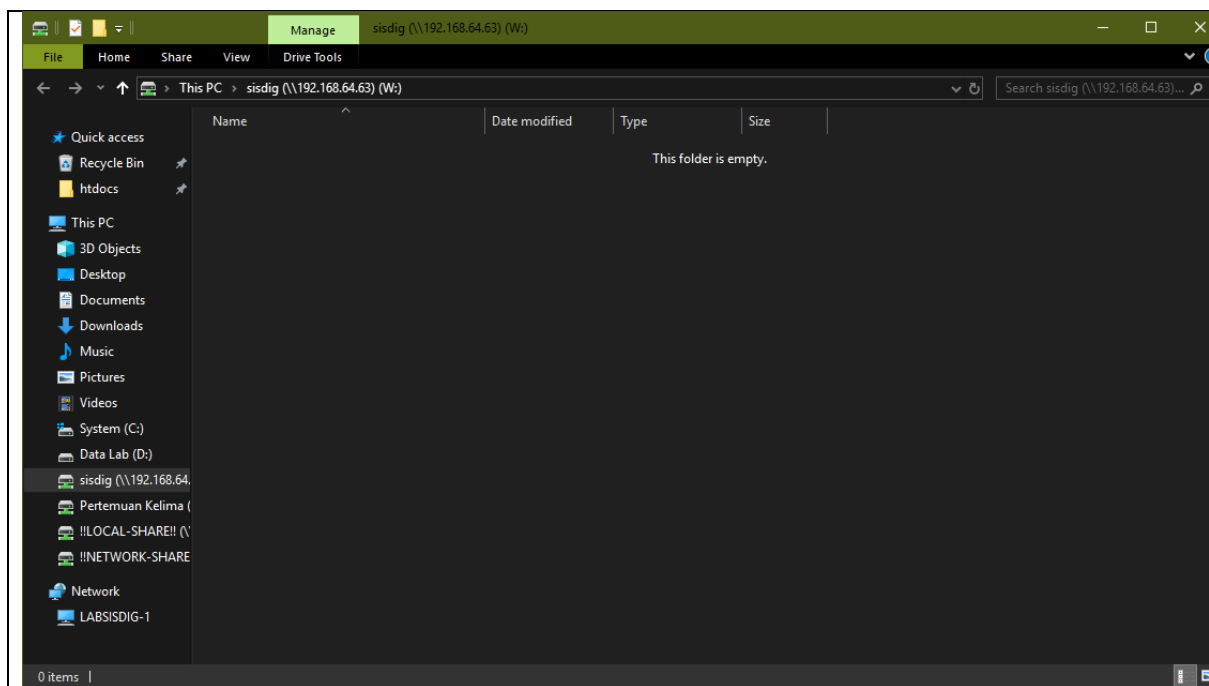
8. Tampilkan hasil akses shares untuk Lab Jaringan



9. Tampilkan hasil akses shares untuk Lab Komputasi



10. Tampilkan hasil akses shares untuk Lab Sisdig



DOKUMENTASI PERTEMUAN KELIMA (BILA ADA)