



LEMBAR KERJA PRAKTIKUM CLOUD COMPUTING

INSTALASI DAN KONFIGURASI LAYANAN FILE SHARING DENGAN FREENAS

IDENTITAS:

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Kelas:	B
Hari, Tanggal:	5 Maret 2020

CONTOH ISIAN DAN PETUNJUK:

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

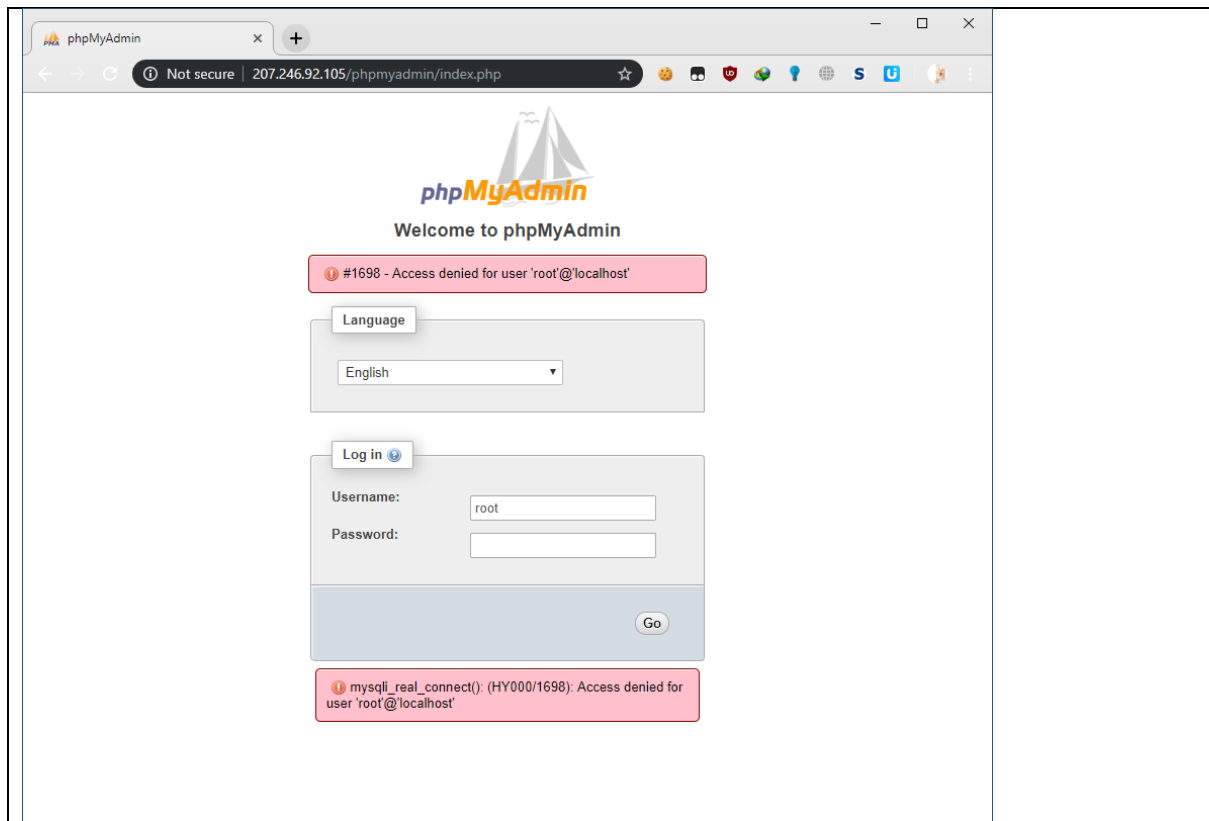


2. **[Contoh]** Deskripsikan parameter yang digunakan untuk keluar dari akun root

```
$ exit
```

Perintah exit digunakan untuk keluar dari sesi akun aktif

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

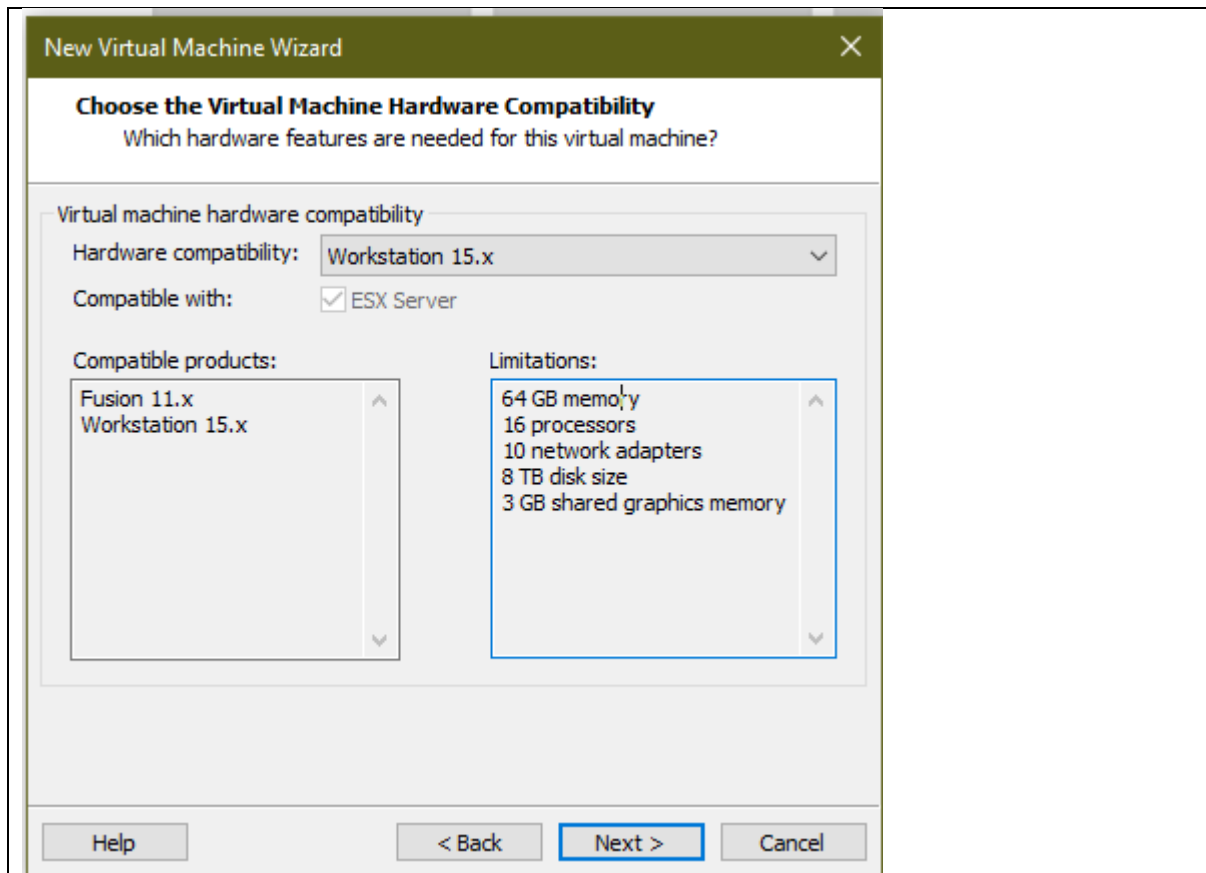


TUGAS BAGIAN PERTAMA – PEMBUATAN VM:

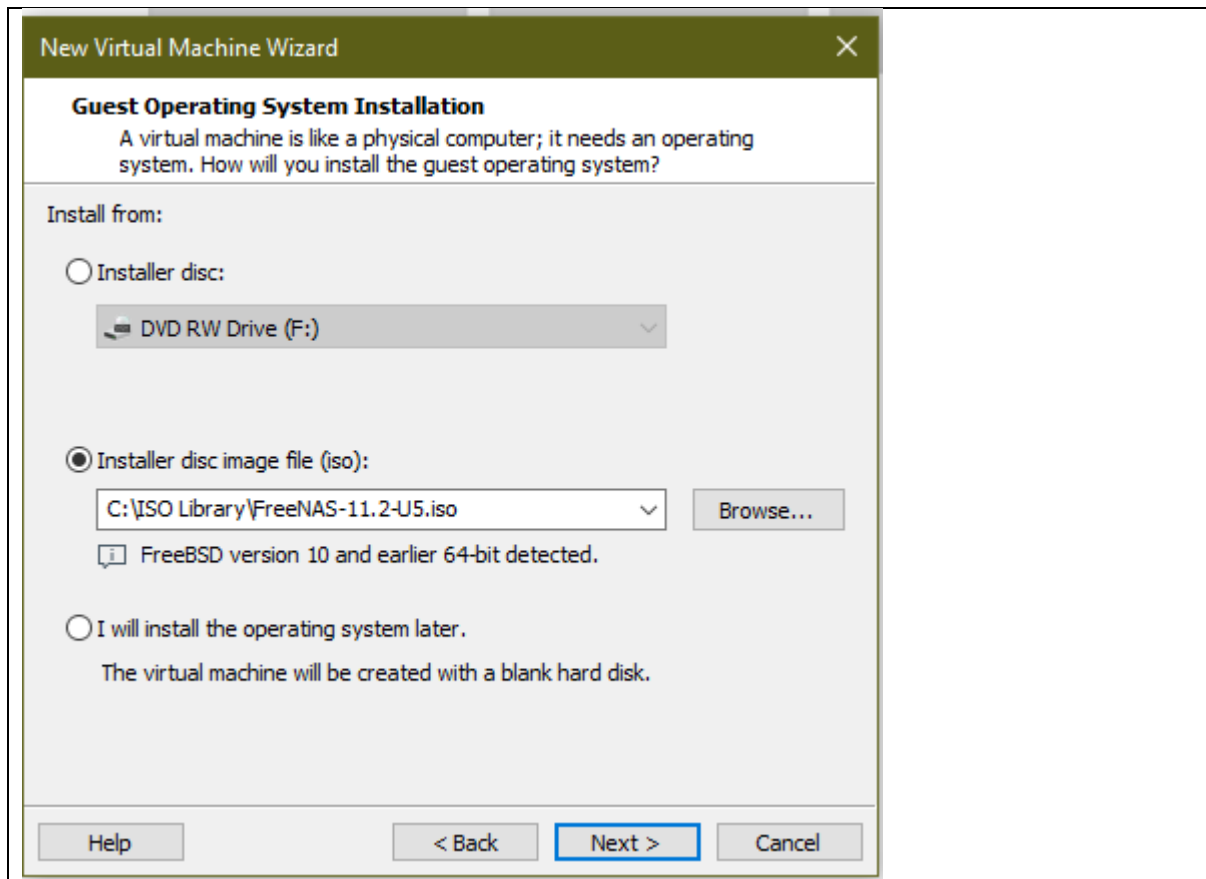
1. Gunakan opsi konfigurasi Custom



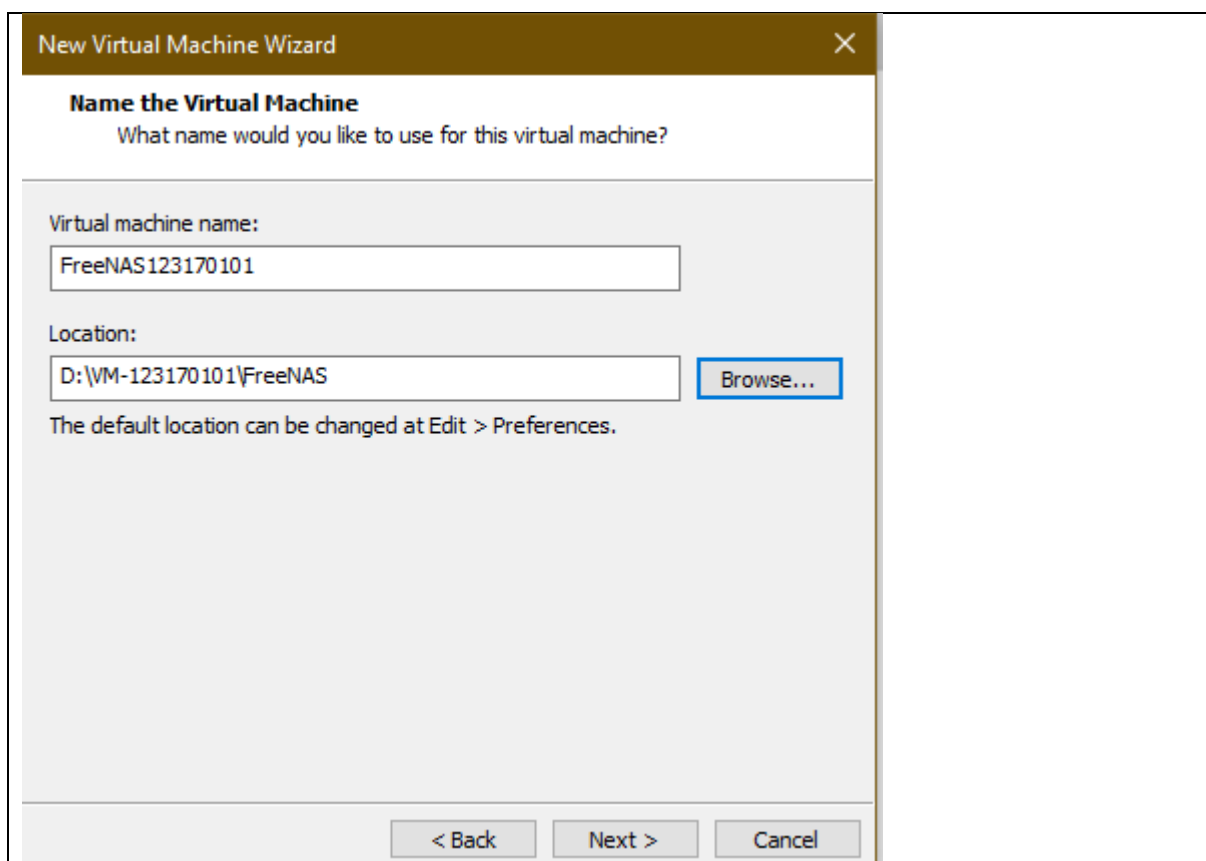
2. Gunakan compatibility Workstation 15.X



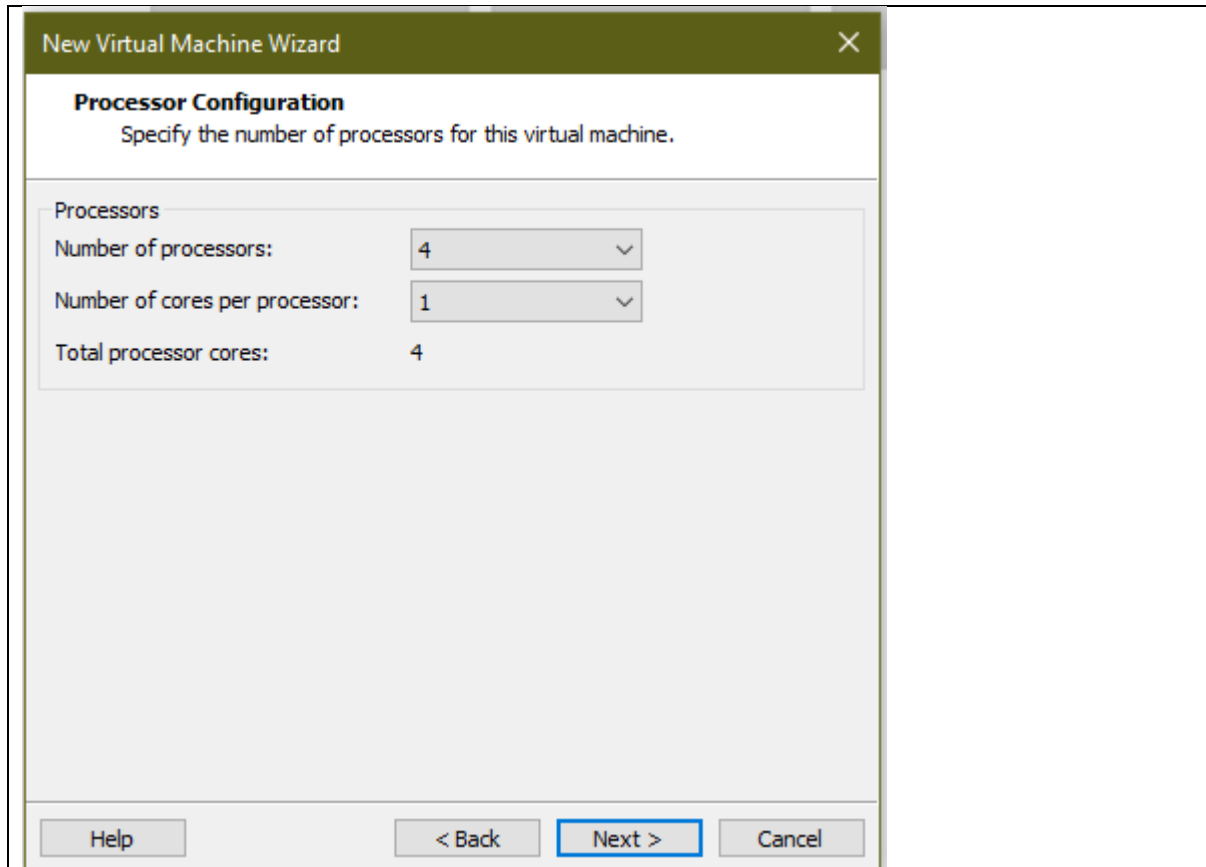
3. Gunakan ISO FreeNAS-11.2-U5 di folder ISO Library



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



- Gunakan 4 processor dan 1 core



New Virtual Machine Wizard [X]

Processor Configuration
Specify the number of processors for this virtual machine.

Processors

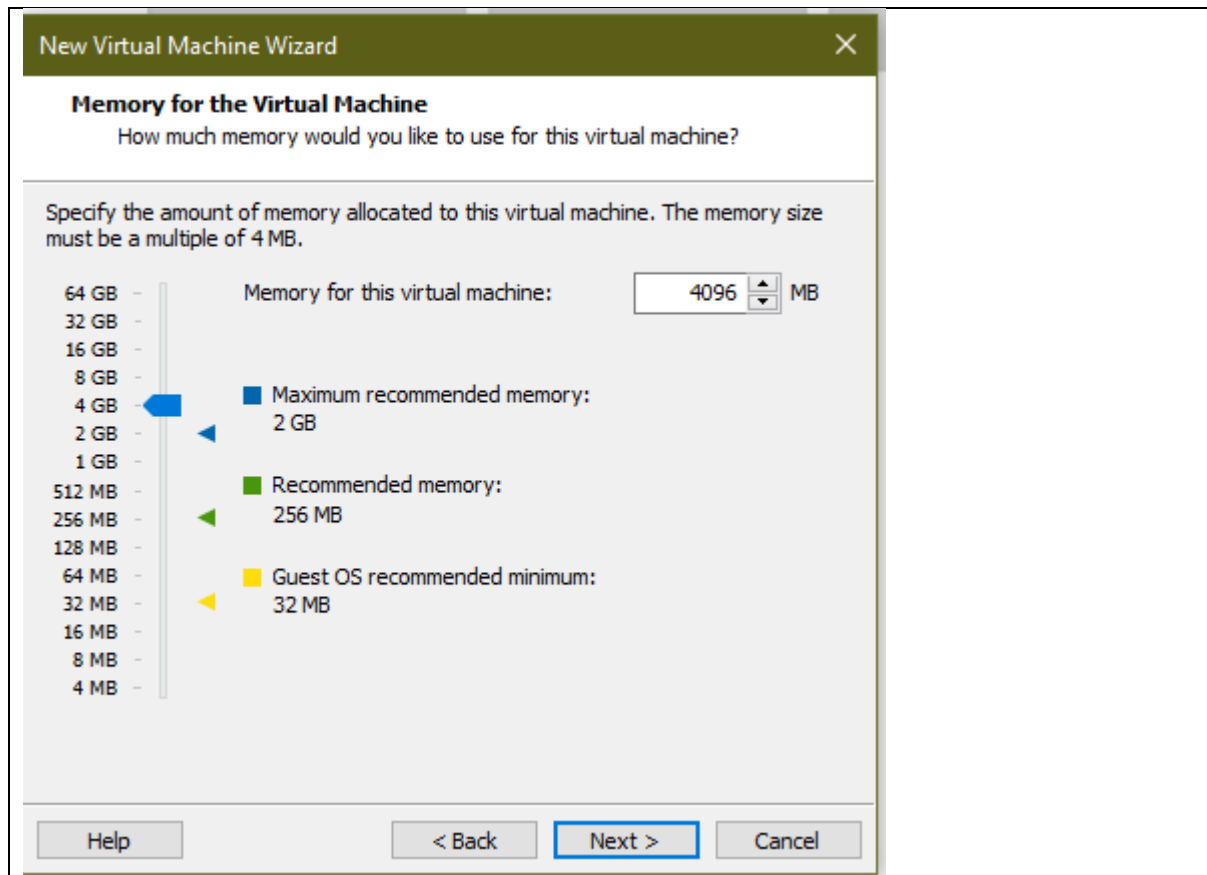
Number of processors: 4

Number of cores per processor: 1

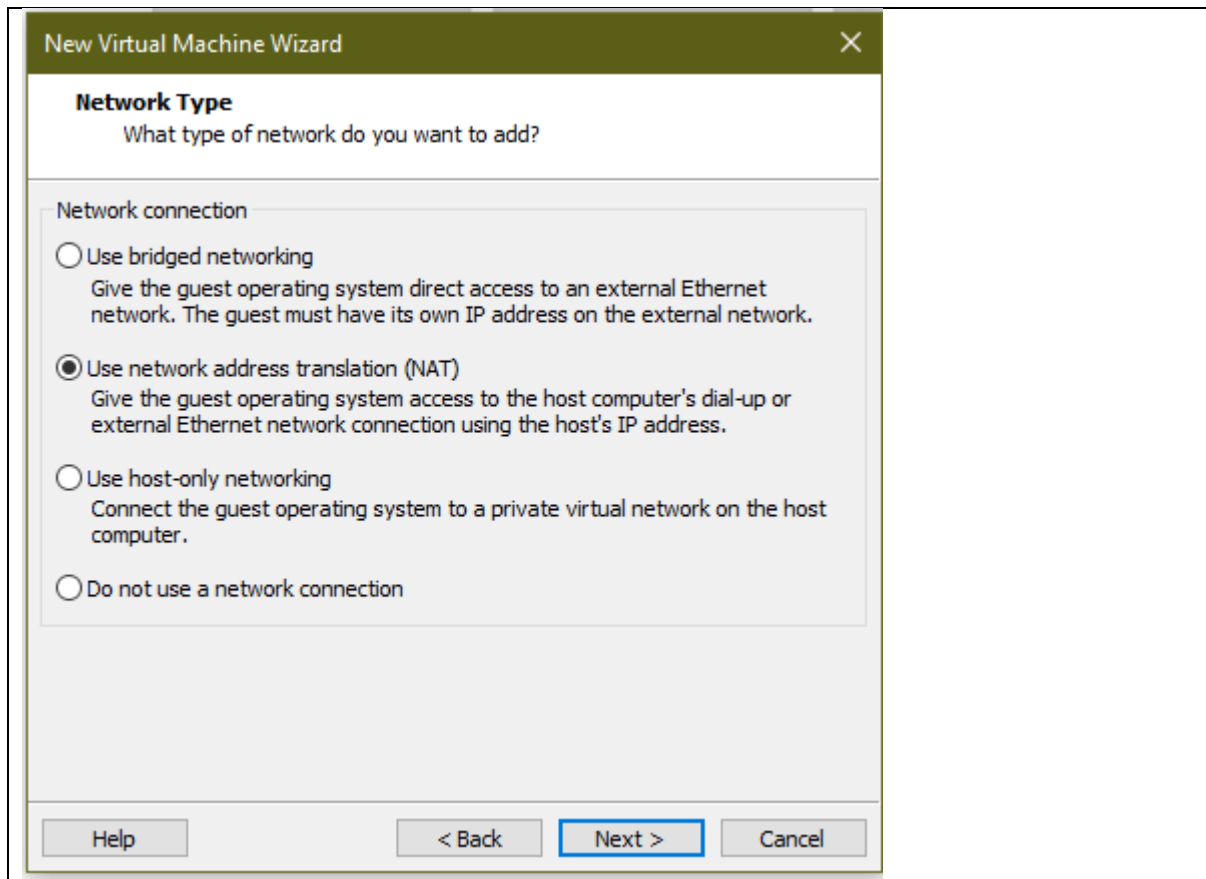
Total processor cores: 4

Help < Back **Next >** Cancel

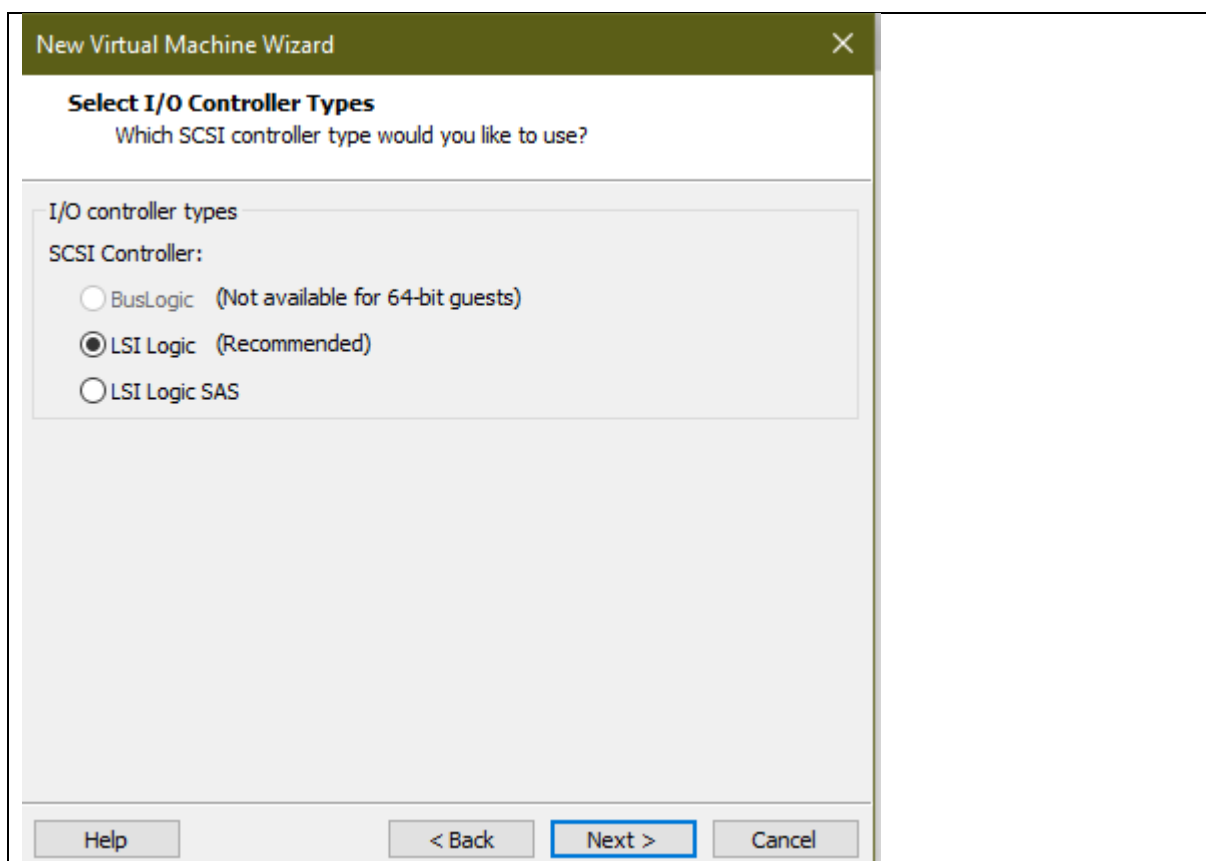
- Gunakan RAM sebesar 4 GB



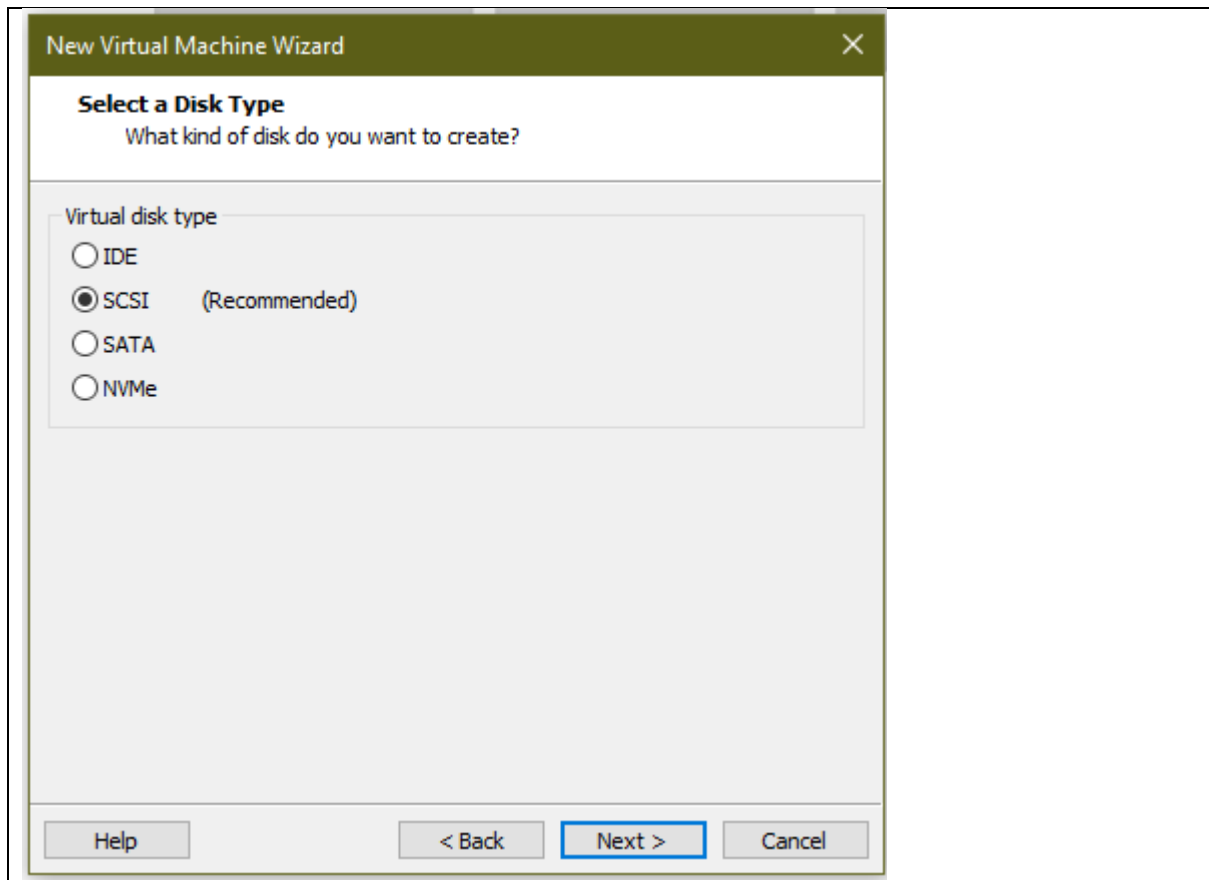
7. Gunakan mode jaringan NAT



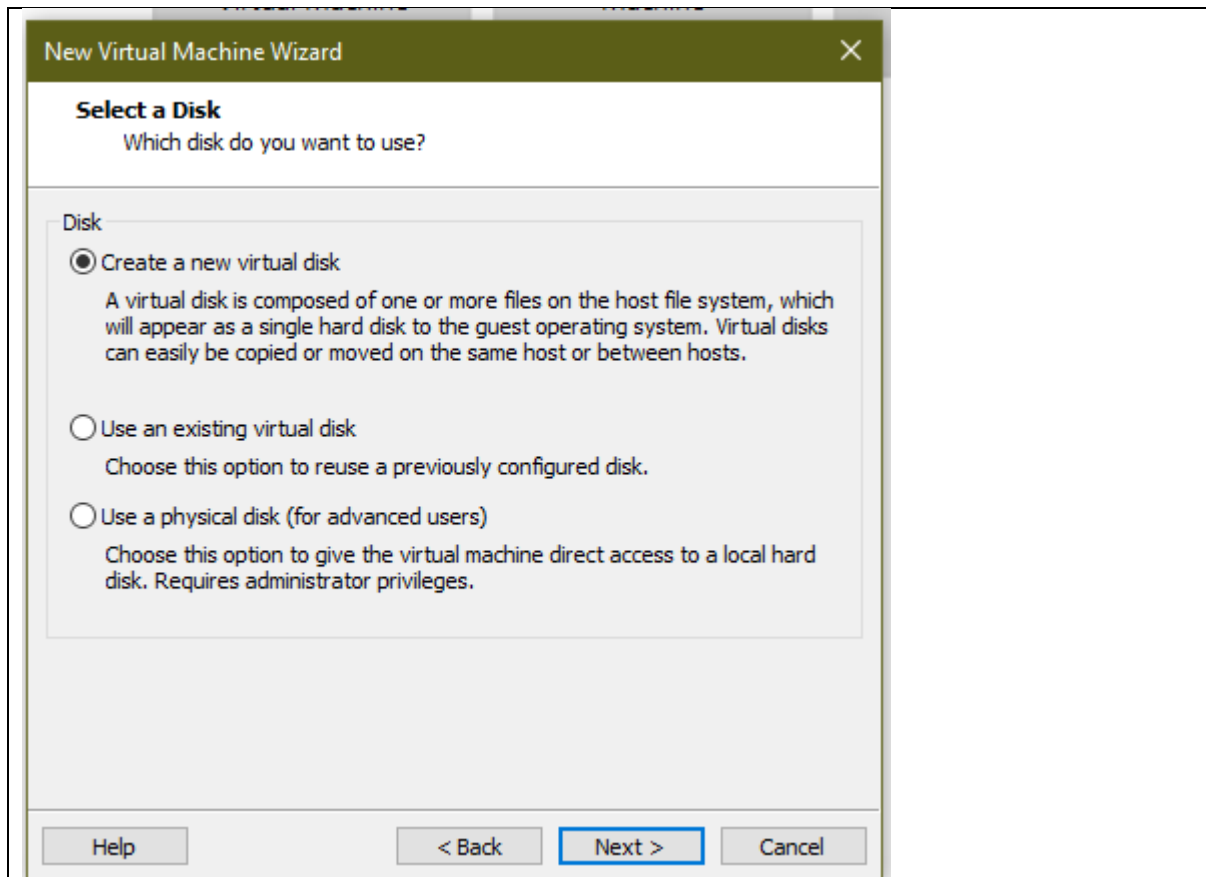
8. Gunakan pengaturan default I/O Controller



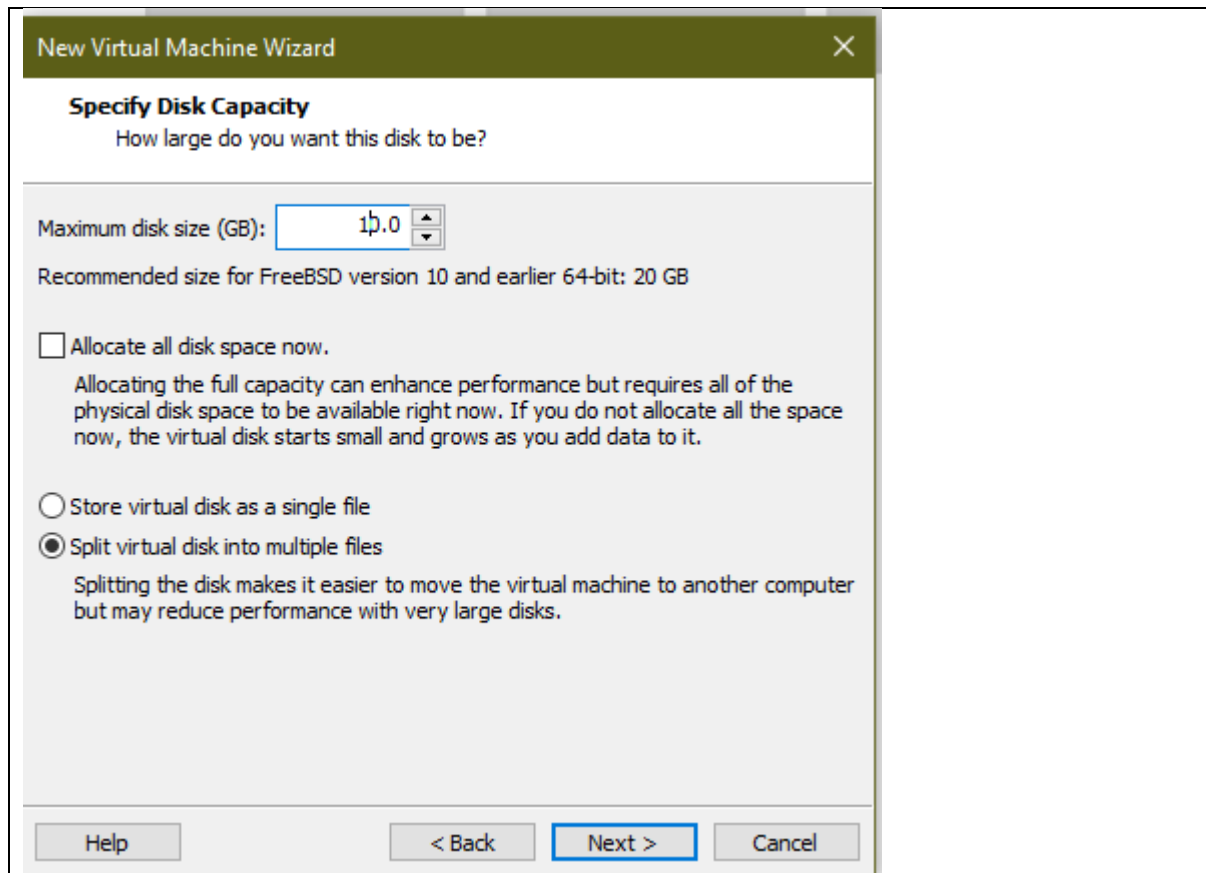
9. Gunakan pengaturan default Virtual Disk Type



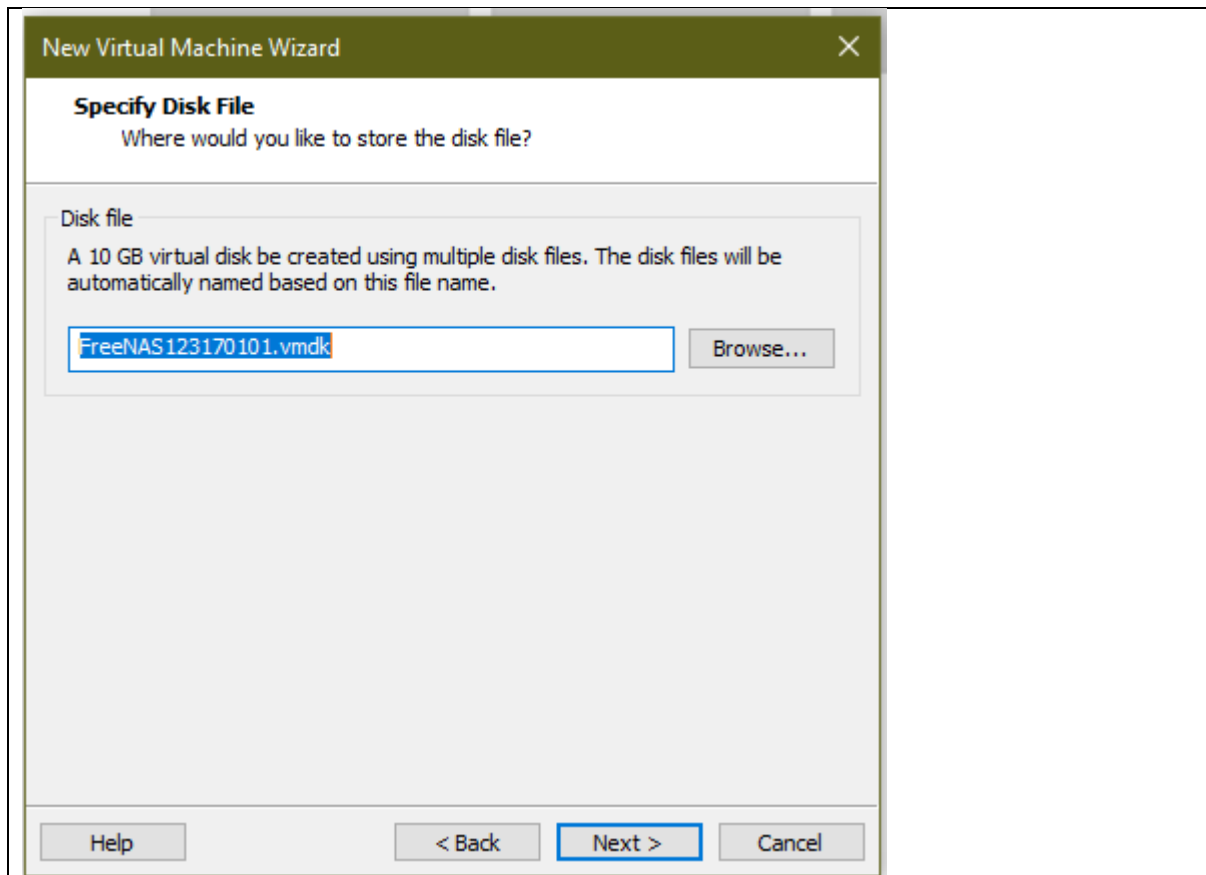
10. Pilih opsi buat virtual disk baru



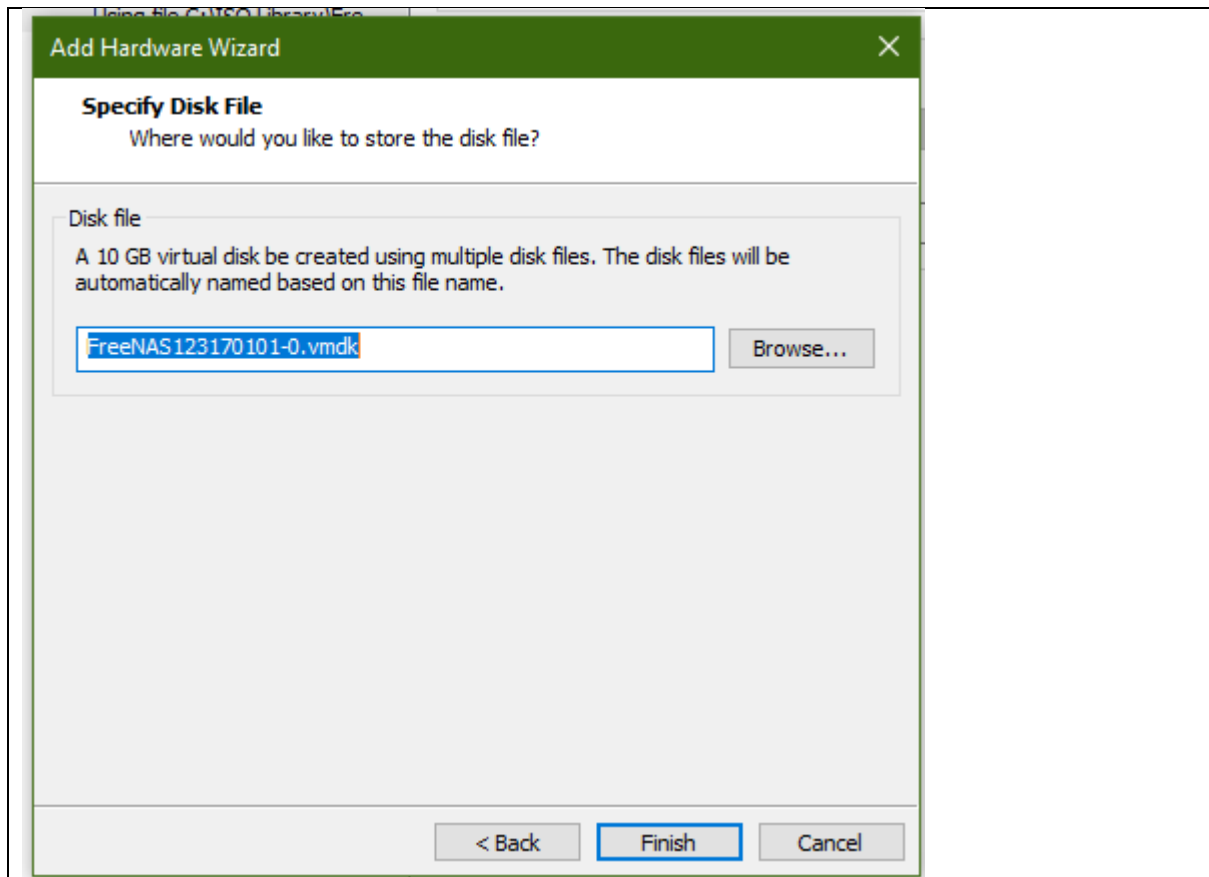
11. Buat disk untuk sistem sebesar 10 GB dengan mode Split dan hilangkan checklist allocate disk



12. Gunakan pengaturan default untuk nama disk

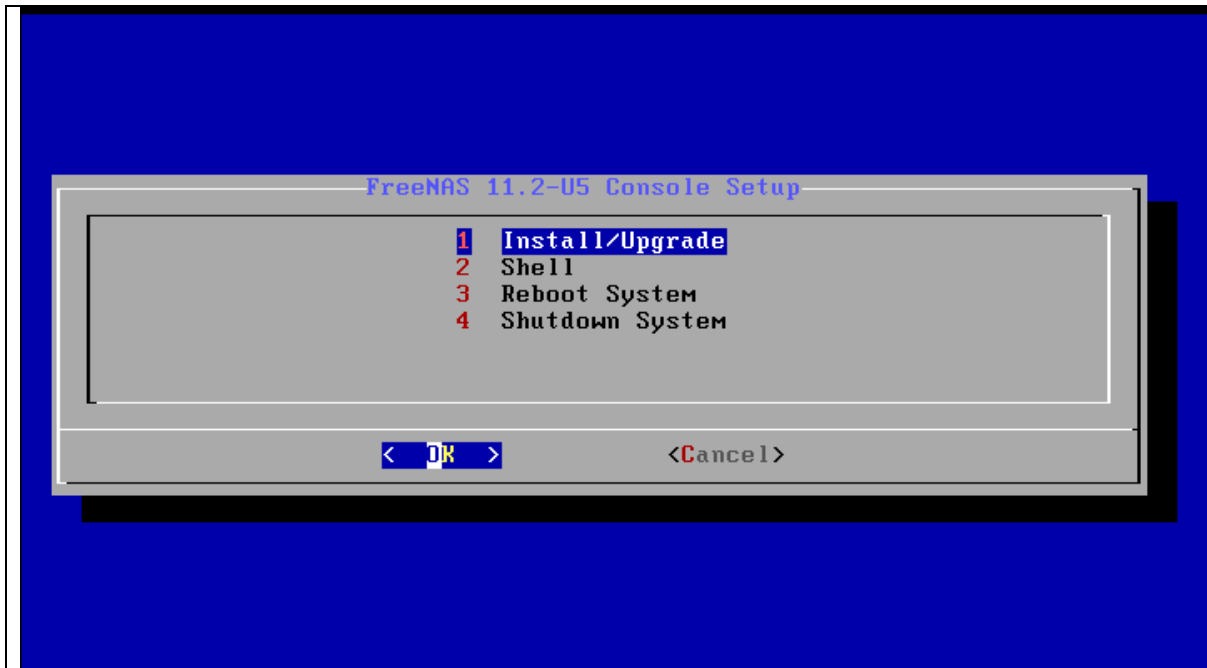


13. Tampilkan tangkapan layar dari ringkasan konfigurasi Virtual Machine (tahap akhir Wizard) lalu nyalakan VM

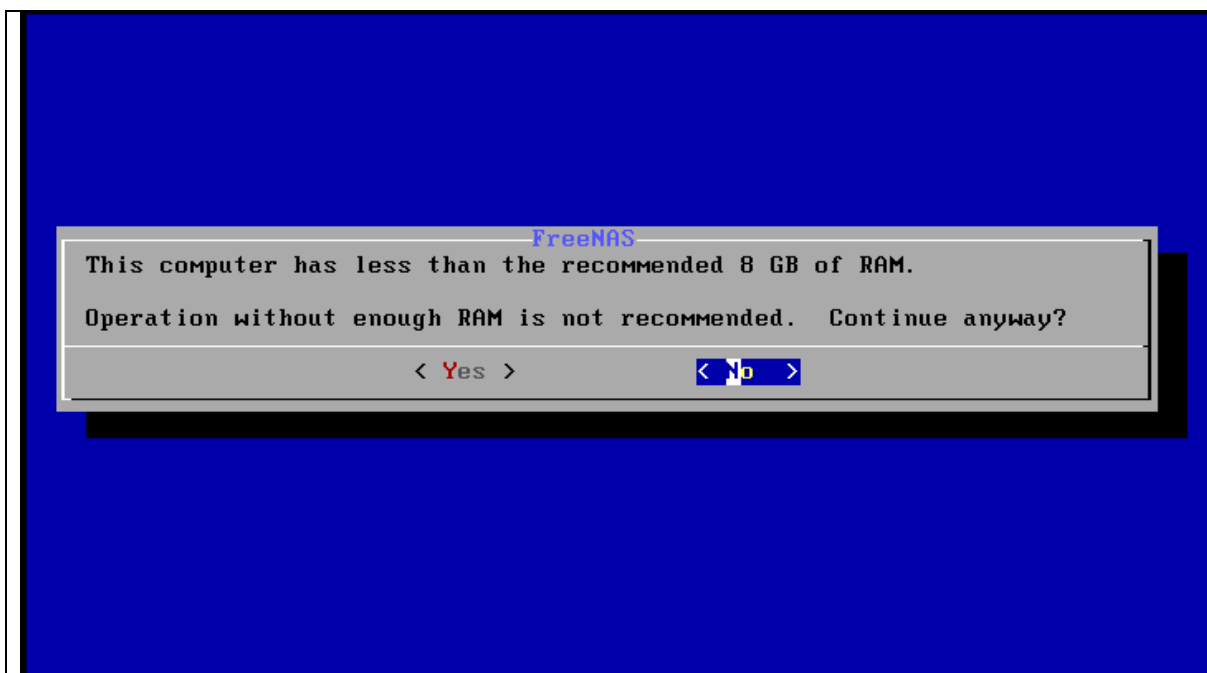


TUGAS BAGIAN KEDUA – INSTALASI FREENAS:

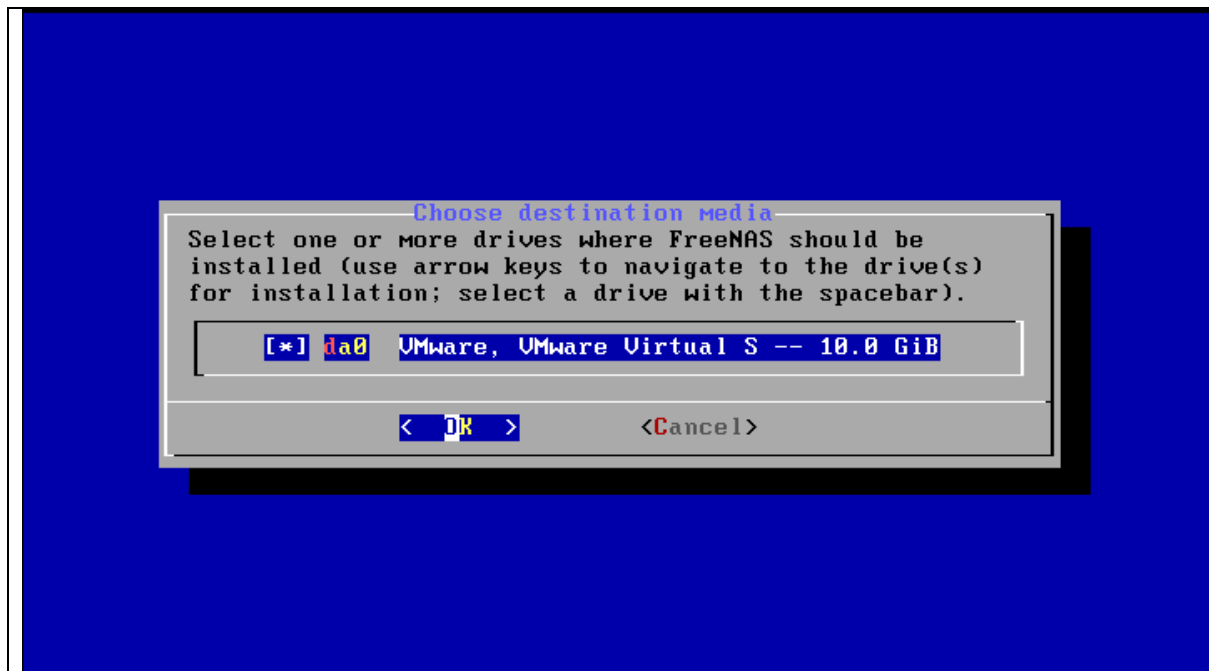
1. Tampilan awal tahap instalasi FreeNAS, pilih Install/Upgrade



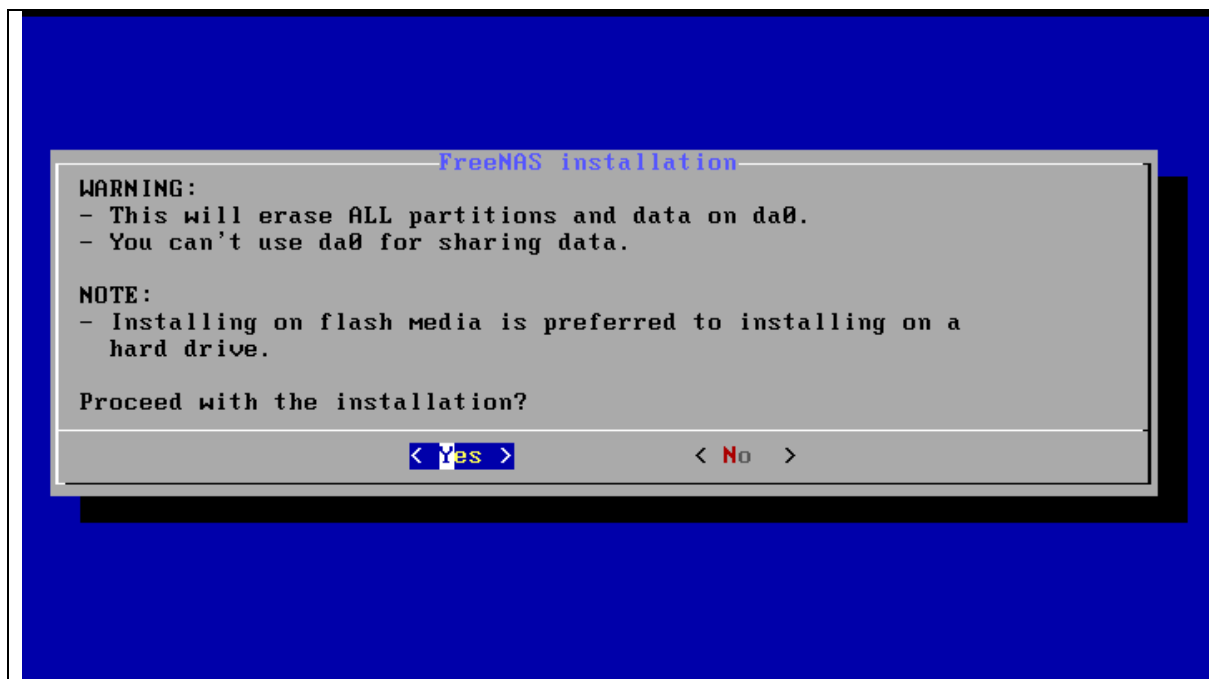
2. Tampilan warning RAM kurang dari 8GB, pilih Yes



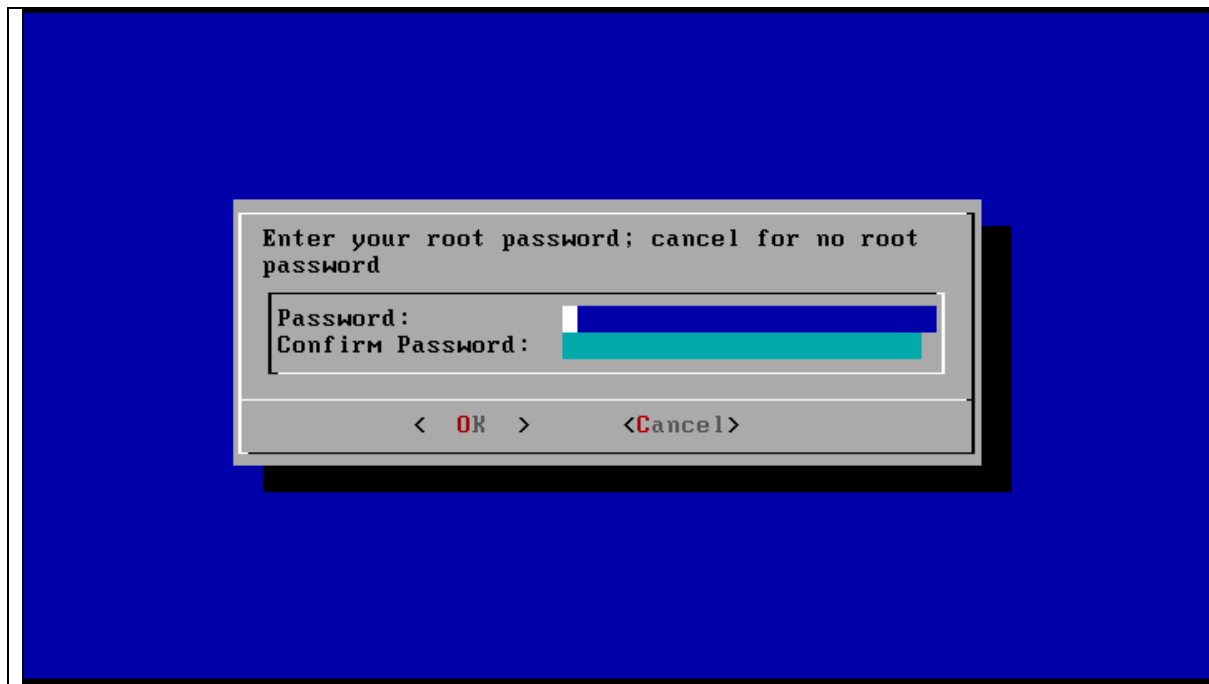
3. Tampilan pemilihan destination media untuk dipasang FreeNAS, pilih da0



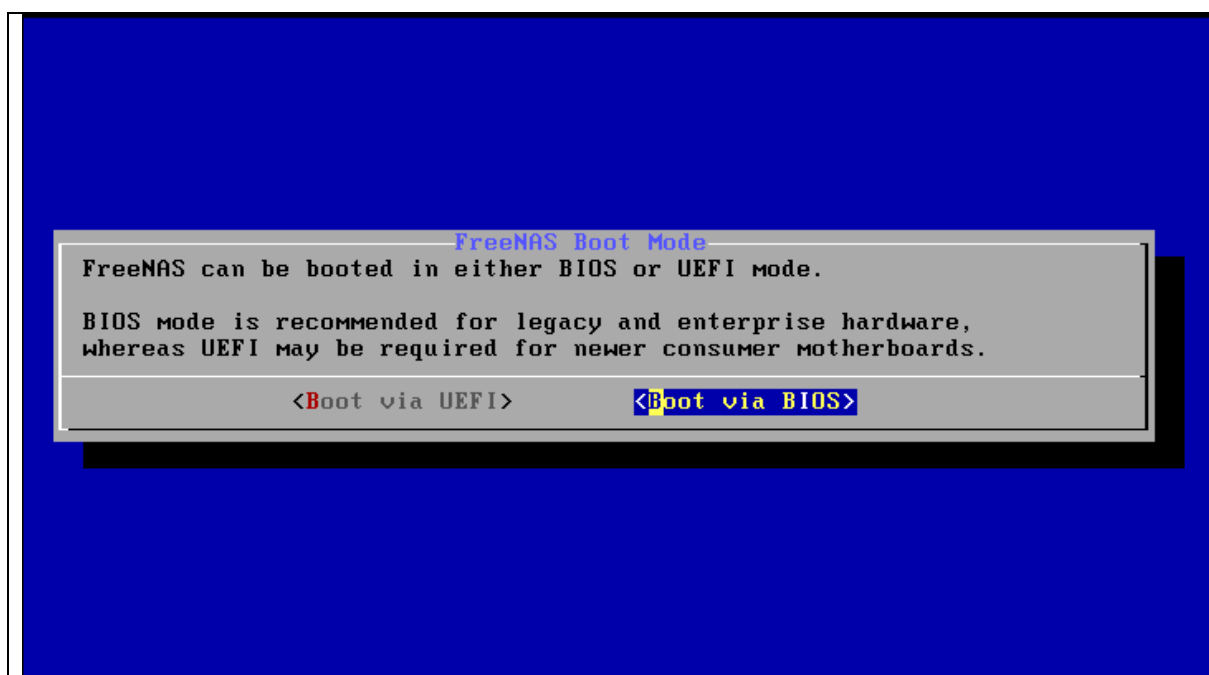
4. Tampilan konfirmasi penghapusan/format media yang terpilih, pilih Yes



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 out
2097152 bytes transferred in 0.046165 secs (45427368 bytes/sec)
dd: /dev/da0: end of device
3+0 records in
2+0 records out
2097152 bytes transferred in 0.002875 secs (729333823 bytes/sec)
da0 created
da0p1 added
da0p2 added
gmirror: Invalid class name.
da0 destroyed
da0 created
da0p1 added
da0p2 added
active set on da0
^CTraceback (most recent call last):
  File "/usr/local/bin/freenas-install", line 59, in <module>
    if installer.GetPackages() is not True:
  File "/usr/local/lib/freenasOS/Installer.py", line 1072, in GetPackages
    pkgFile = self._conf.FindPackageFile(pkg, handler=get_file_handler)
  File "/usr/local/lib/freenasOS/Configuration.py", line 1260, in FindPackageFil
e
    raise Exceptions.UpdatePackageNotFound(package.Name())
freenasOS.Exceptions.UpdatePackageNotFound: base-os
The FreeNAS installation on da0 has failed. Press enter to continue.. █

```

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

```
.0xdc000-0xdffff,0xe0000-0xe7fff on isa0
ZFS NOTICE: Prefetch is disabled by default if less than 4GB of RAM is present;
              to enable, add "vfs.zfs.prefetch_disable=0" to /boot/loader.conf.
ZFS filesystem version: 5
ZFS storage pool version: features support (5000)
Timecounters tick every 10.000 msec
freenas_sysctl: adding account.
freenas_sysctl: adding directoryservice.
freenas_sysctl: adding middlewared.
freenas_sysctl: adding network.
freenas_sysctl: adding services.
ipfw2 (+ipv6) initialized, divert enabled, nat enabled, default to accept, logging disabled
ugen1.1: <0x15ad EHCI root HUB> at usb1
ugen0.1: <0x15ad UHCI root HUB> at usb0
uhub0: <0x15ad EHCI root HUB, class 9/0, rev 2.00/1.00, addr 1> on usb1
uhub1: <0x15ad UHCI root HUB, class 9/0, rev 1.00/1.00, addr 1> on usb0
uhub1: 2 ports with 2 removable, self powered
ugen0.2: <VMware VMware Virtual USB Mouse> at usb0
ugen0.3: <vendor 0x0e0f VMware Virtual USB Hub> at usb0
uhub2 on uhub1
uhub2: <VMware Virtual USB Hub> on usb0
uhub0: 6 ports with 6 removable, self powered
uhub2: 7 ports with 7 removable, self powered
█
```

10. Tampilan hasil akhir booting yang menunjukkan Console Setup

```
Wed Mar  4 20:38:52 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
```

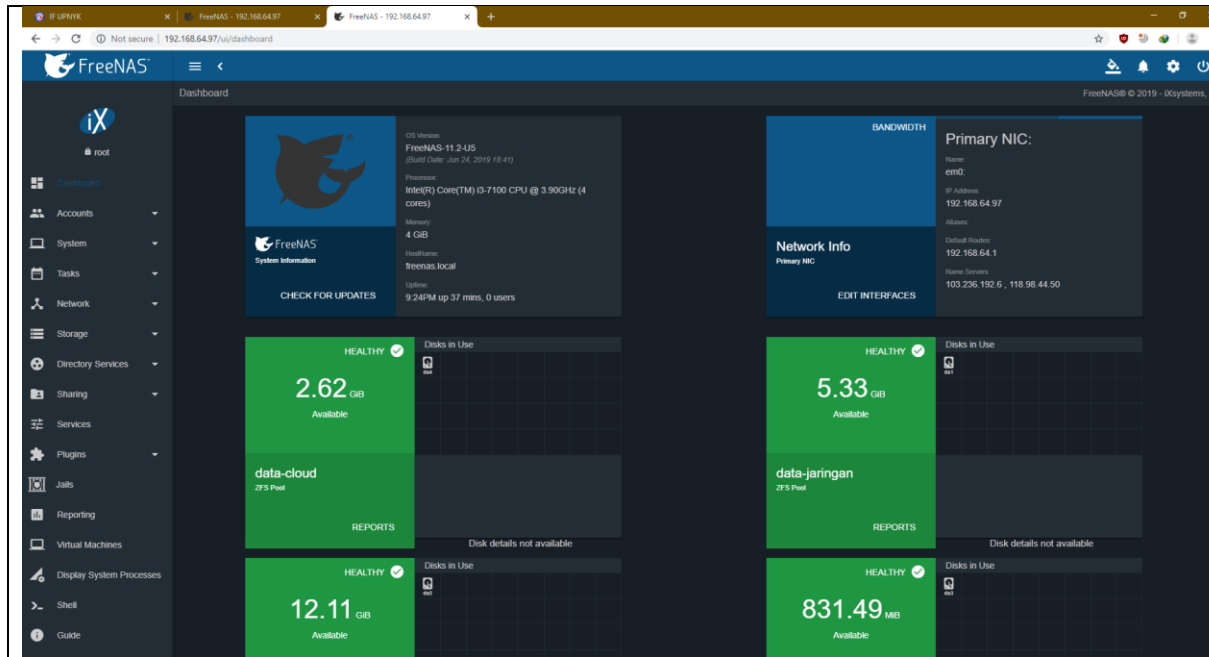
```
The web user interface is at:
```

```
http://192.168.116.128
```

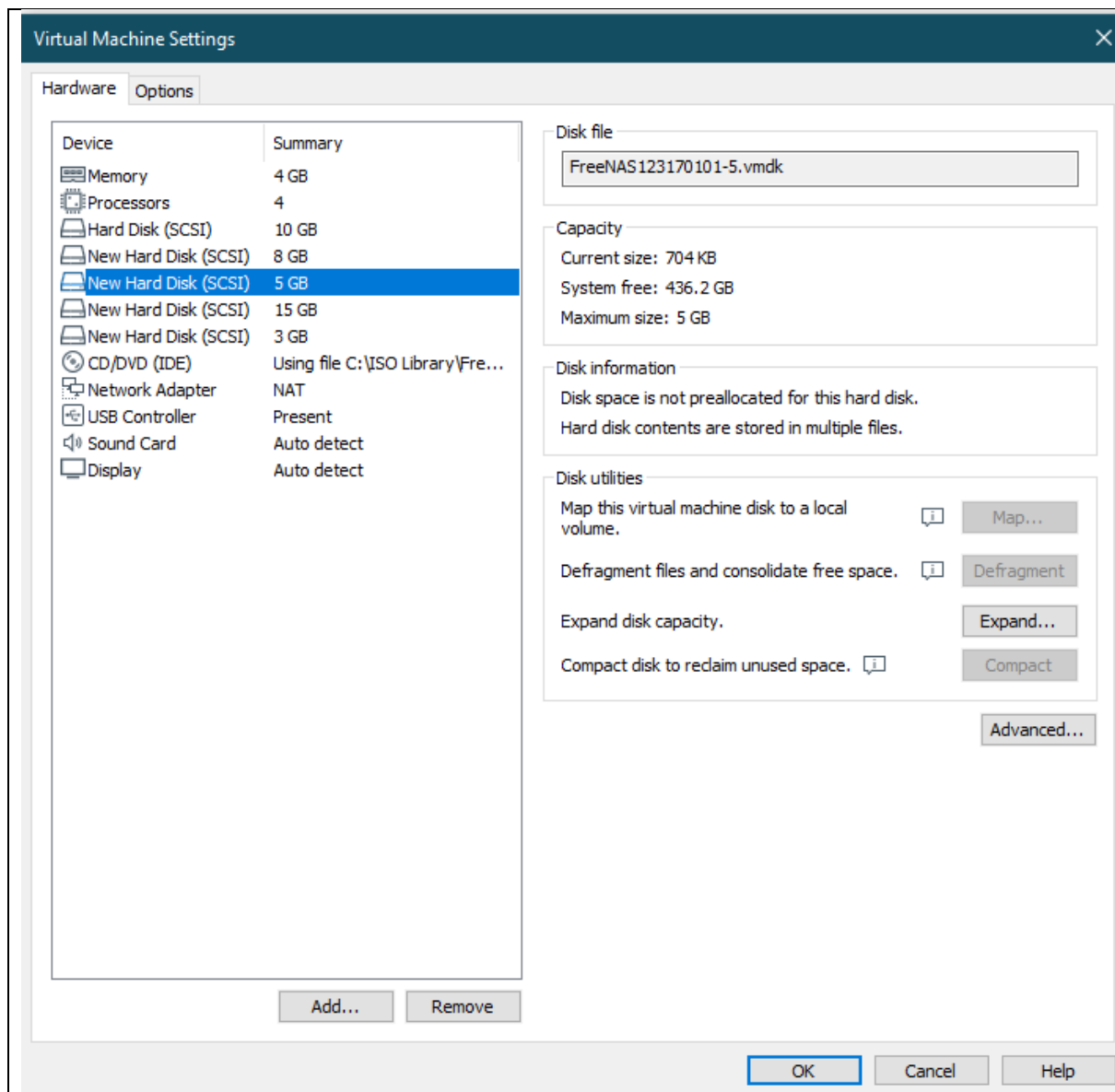
```
Enter an option from 1-11: █
```

## **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

```
Wed Mar 4 20:49:04 PST 2020

FreeBSD/amd64 (freenas.local) (ttyv0)

Console setup

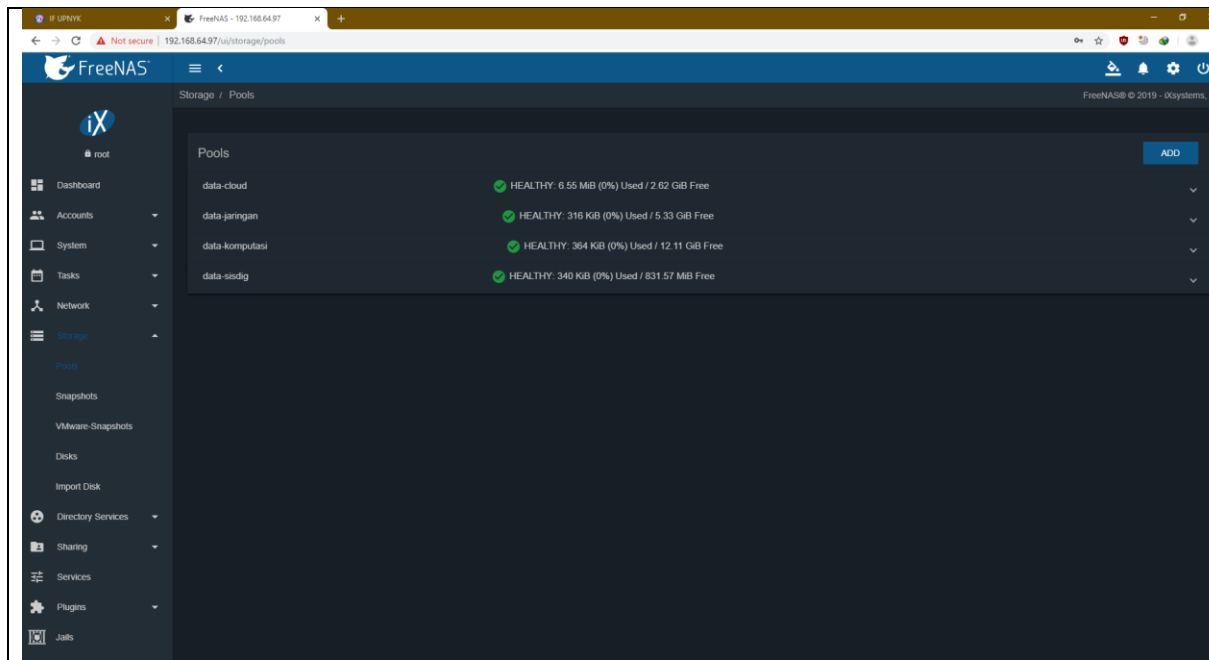
1) Configure Network Interfaces
2) Configure Link Aggregation
3) Configure VLAN Interface
4) Configure Default Route
5) Configure Static Routes
6) Configure DNS
7) Reset Root Password
8) Reset Configuration to Defaults
9) Shell
10) Reboot
11) Shut Down

The web user interface is at:

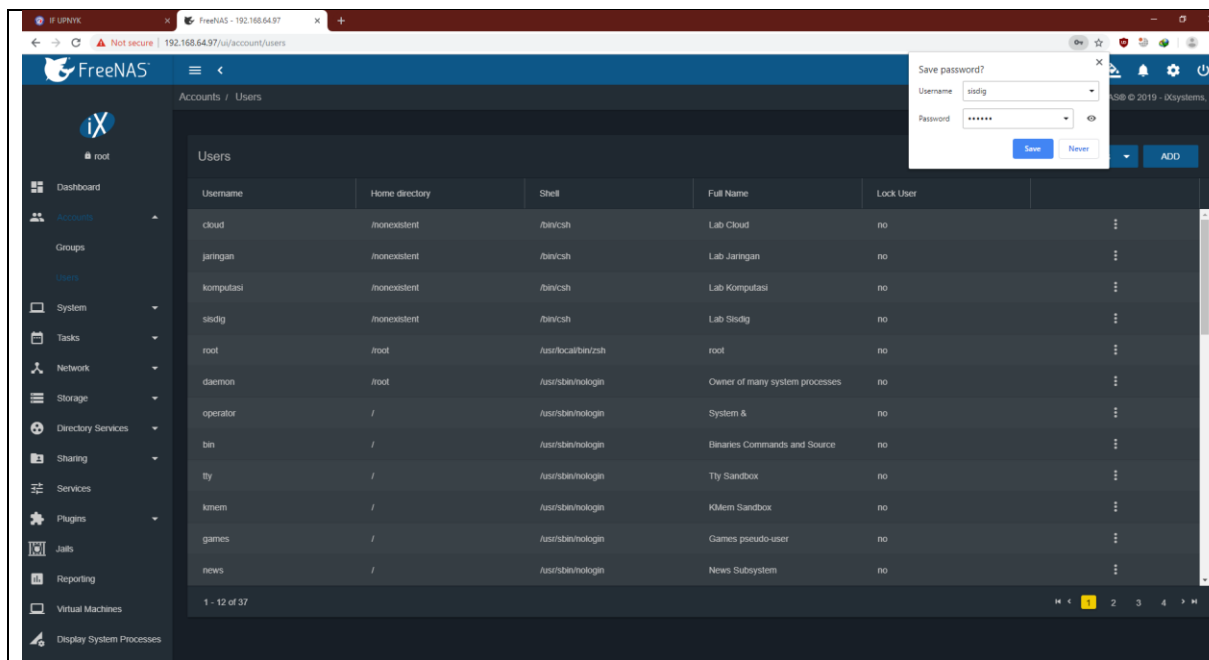
http://192.168.64.97

Enter an option from 1-11: █
```

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



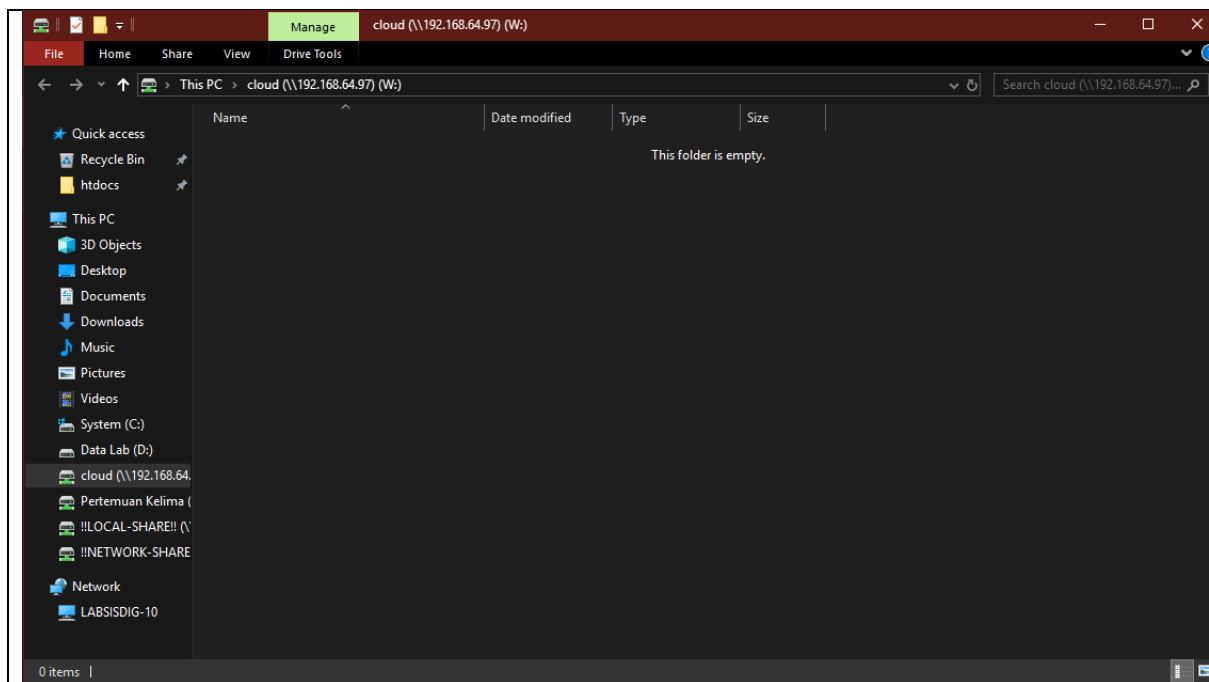
5. Tampilkan hasil dari pembuatan user tambahan pada menu Accounts -> Users



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

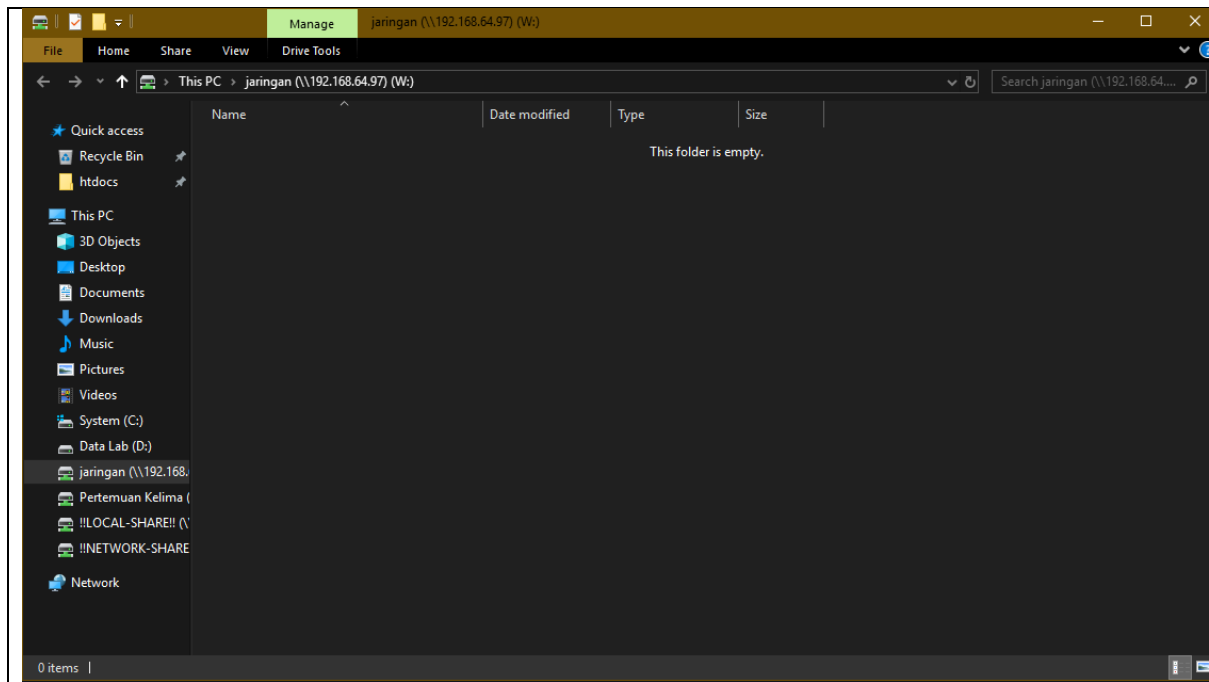
| Samba        |                     |             |
|--------------|---------------------|-------------|
| Filter Samba |                     | COLUMNS ADD |
| Name         | Path                |             |
| cloud        | /mnt/data-cloud     | ...         |
| jaringan     | /mnt/data-jaringan  | ...         |
| komputasi    | /mnt/data-komputasi | ...         |
| sisdig       | /mnt/data-sisdig    | ...         |
| 1 - 4 of 4   |                     |             |

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

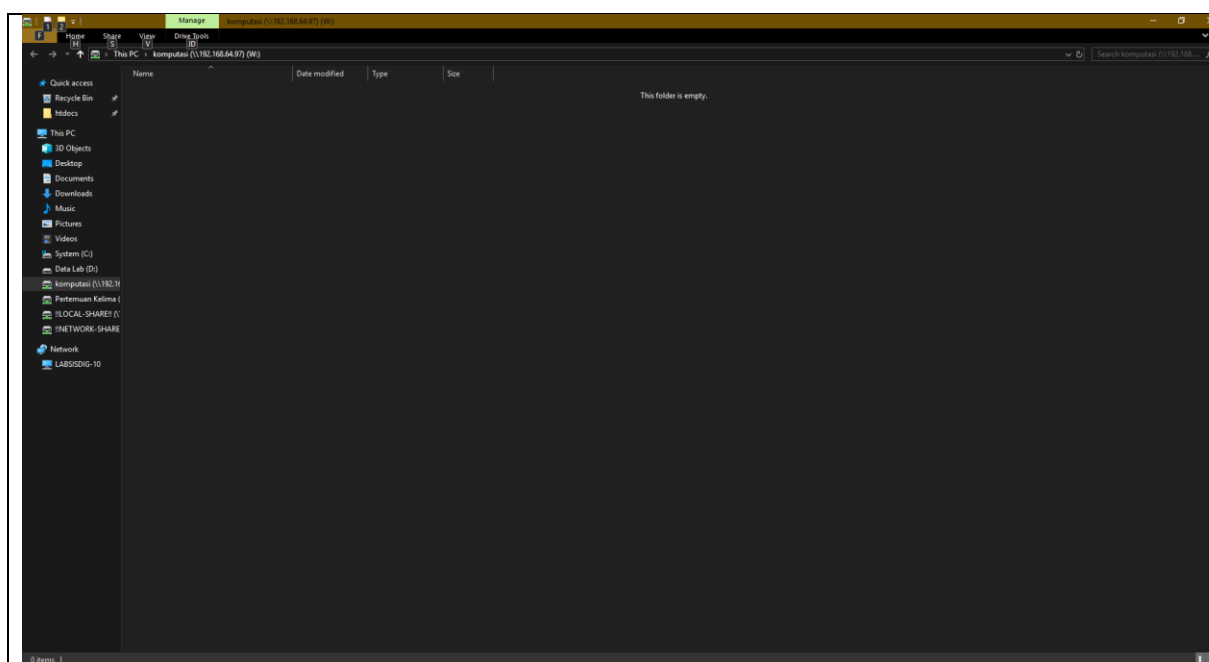


8. Tampilkan hasil akses shares untuk Lab Jaringan

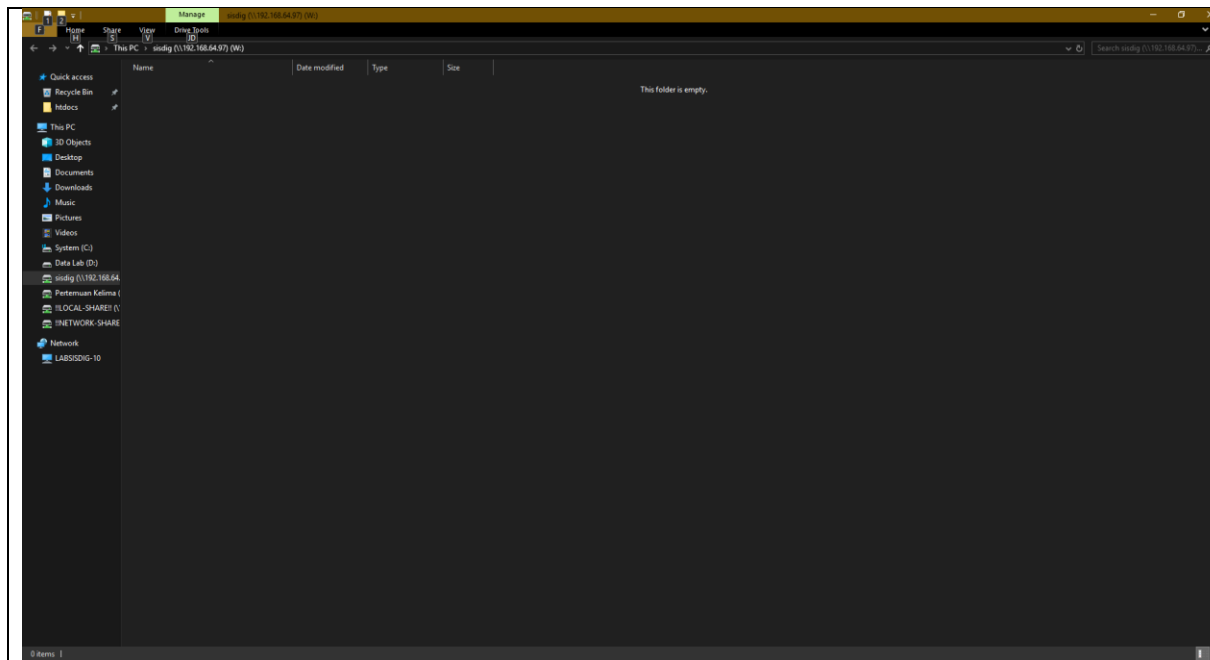




9. Tampilkan hasil akses shares untuk Lab Komputasi



10. Tampilkan hasil akses shares untuk Lab Sisdig



**DOKUMENTASI PERTEMUAN KELIMA (BILA ADA)**