



## **LEMBAR KERJA PRAKTIKUM CLOUD COMPUTING**

### **INSTALASI DAN KONFIGURASI LAYANAN FILE SHARING DENGAN FREENAS**

#### **IDENTITAS:**

Nama:	<b>Naufal Afkar Alabuya</b>
NIM:	<b>123170054</b>
Kelas:	<b>C</b>
Hari, Tanggal:	<b>Jum'at, 06 Maret 2020</b>

#### **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
```

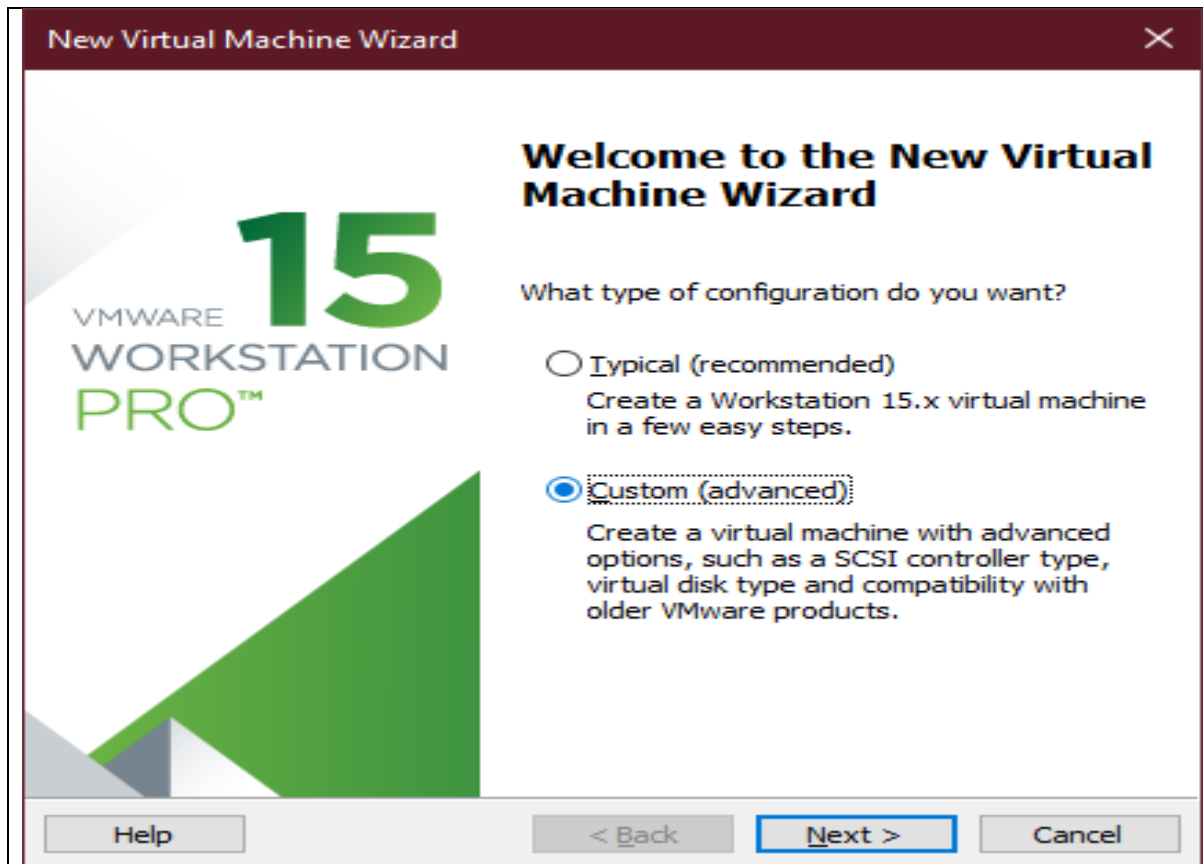
Perintah exit digunakan untuk keluar dari sesi akun aktif

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

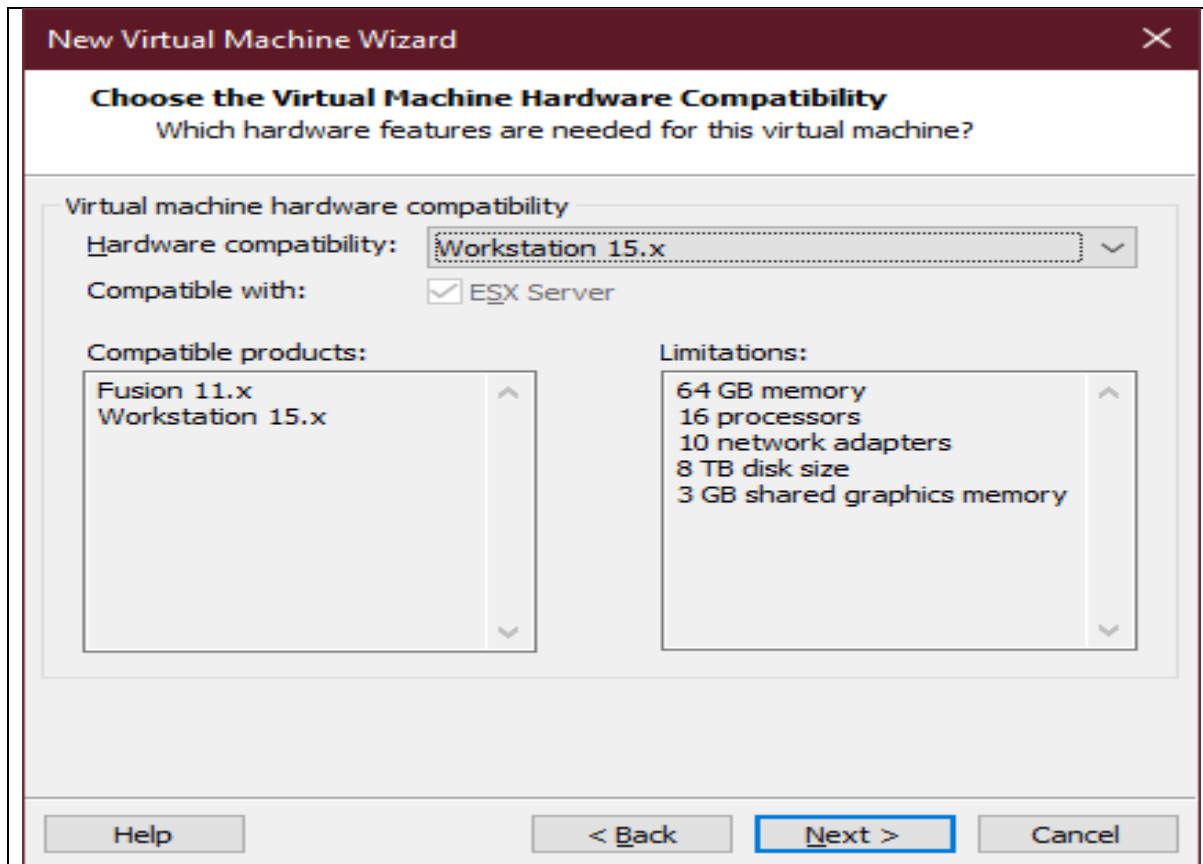


**TUGAS BAGIAN PERTAMA – PEMBUATAN VM:**

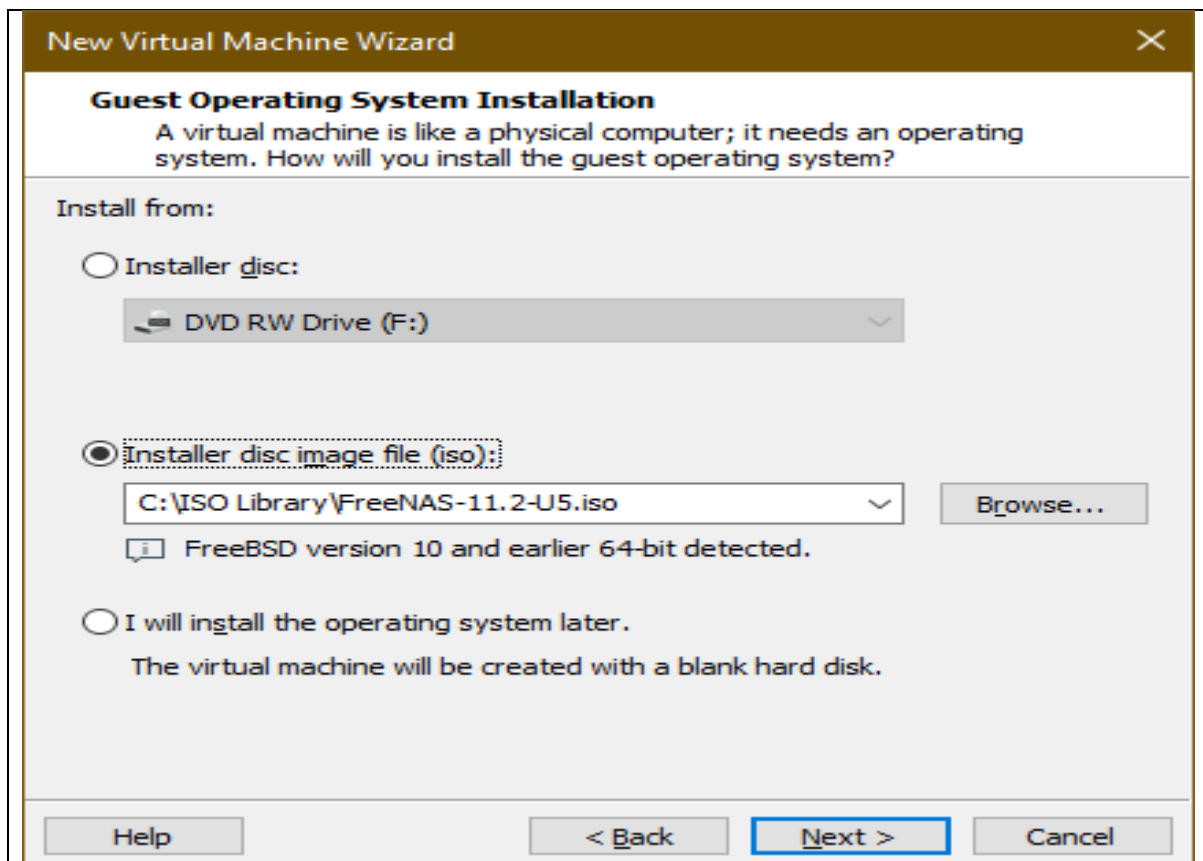
1. Gunakan opsi konfigurasi Custom



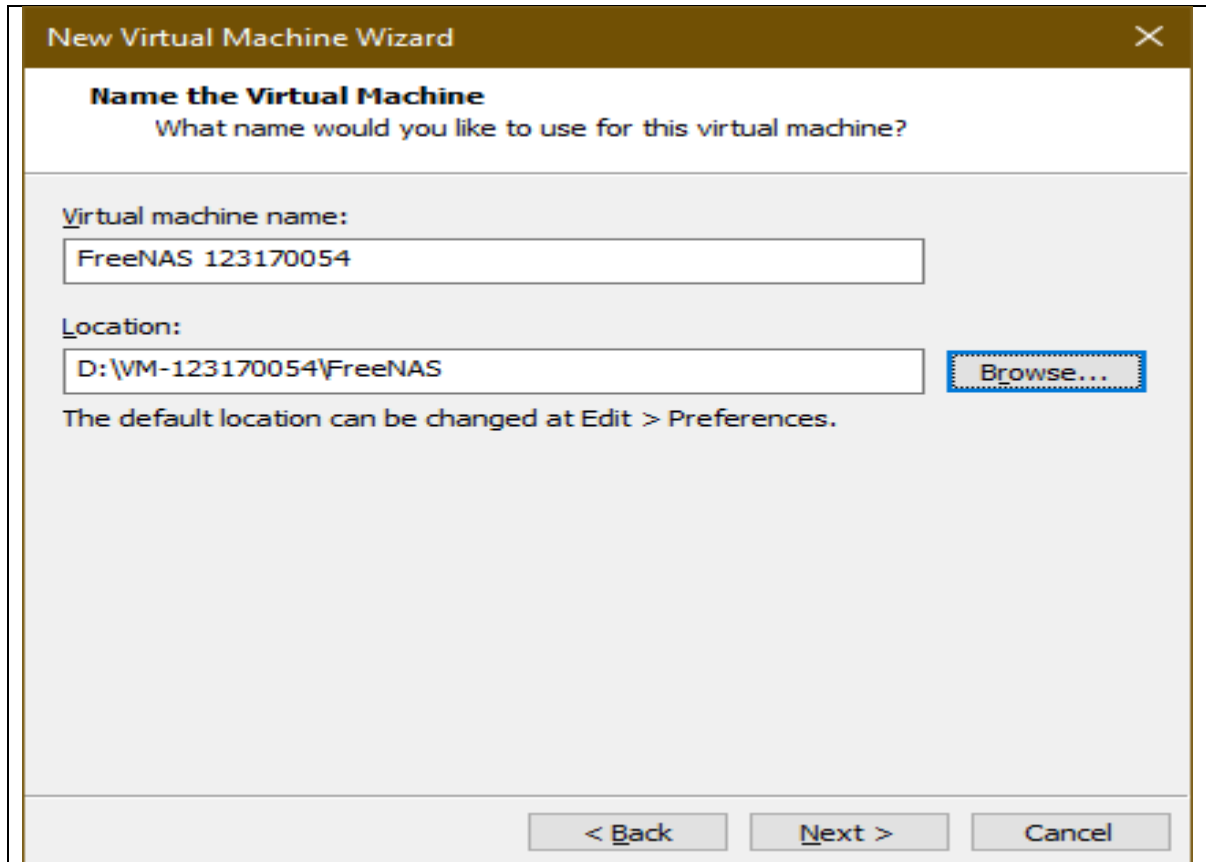
2. Gunakan compatibility Workstation 15.X



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 123170054

Location:  
D:\VM-123170054\FreeNAS [Browse...](#)

The default location can be changed at Edit > Preferences.

< Back   Next >   Cancel

5. 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

6. Gunakan RAM sebesar 4 GB

**New Virtual Machine Wizard** [X]

**Memory for the Virtual Machine**  
How much memory would you like to use for this virtual machine?

Specify the amount of memory allocated to this virtual machine. The memory size must be a multiple of 4 MB.

64 GB -  
32 GB -  
16 GB -  
8 GB -  
4 GB -  
2 GB -  
1 GB -  
512 MB -  
256 MB -  
128 MB -  
64 MB -  
32 MB -  
16 MB -  
8 MB -  
4 MB -

Memory for this virtual machine: 4000 MB

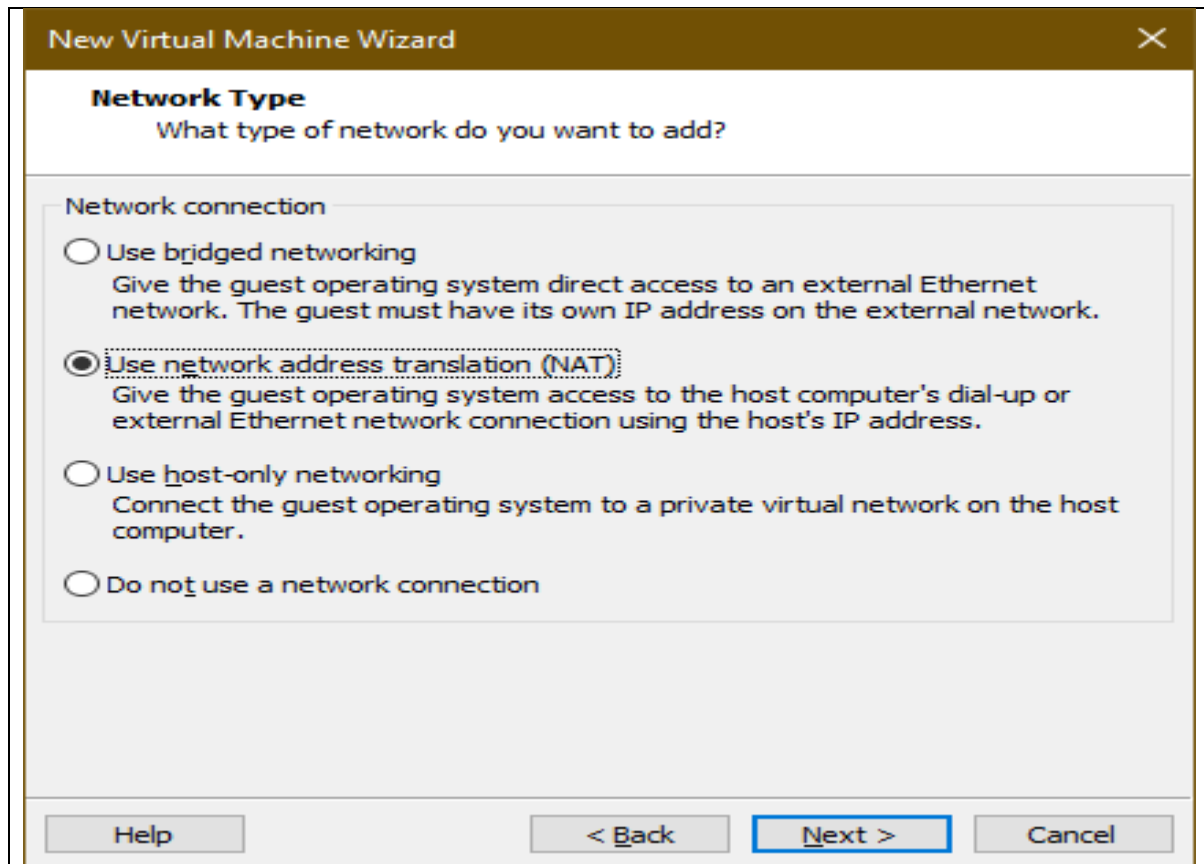
Maximum recommended memory: 2 GB

Recommended memory: 256 MB

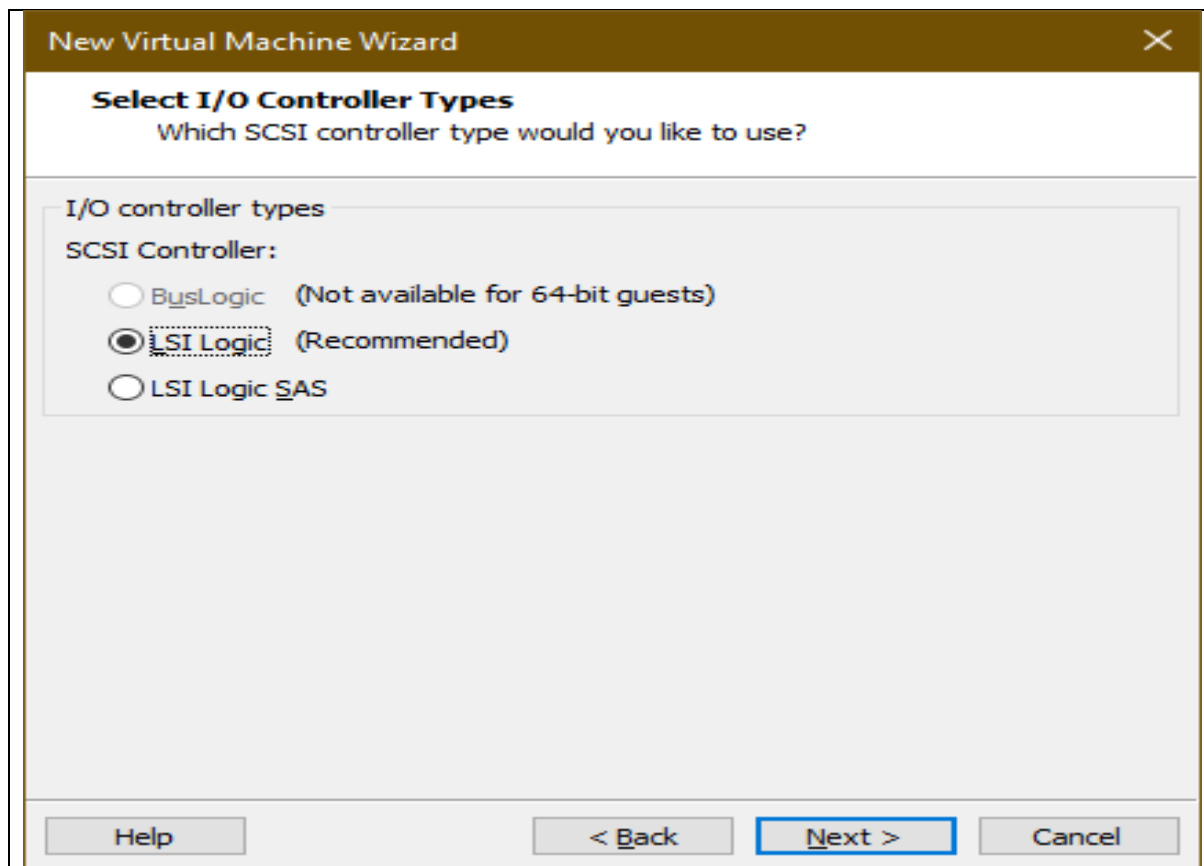
Guest OS recommended minimum: 32 MB

Help < Back Next > Cancel

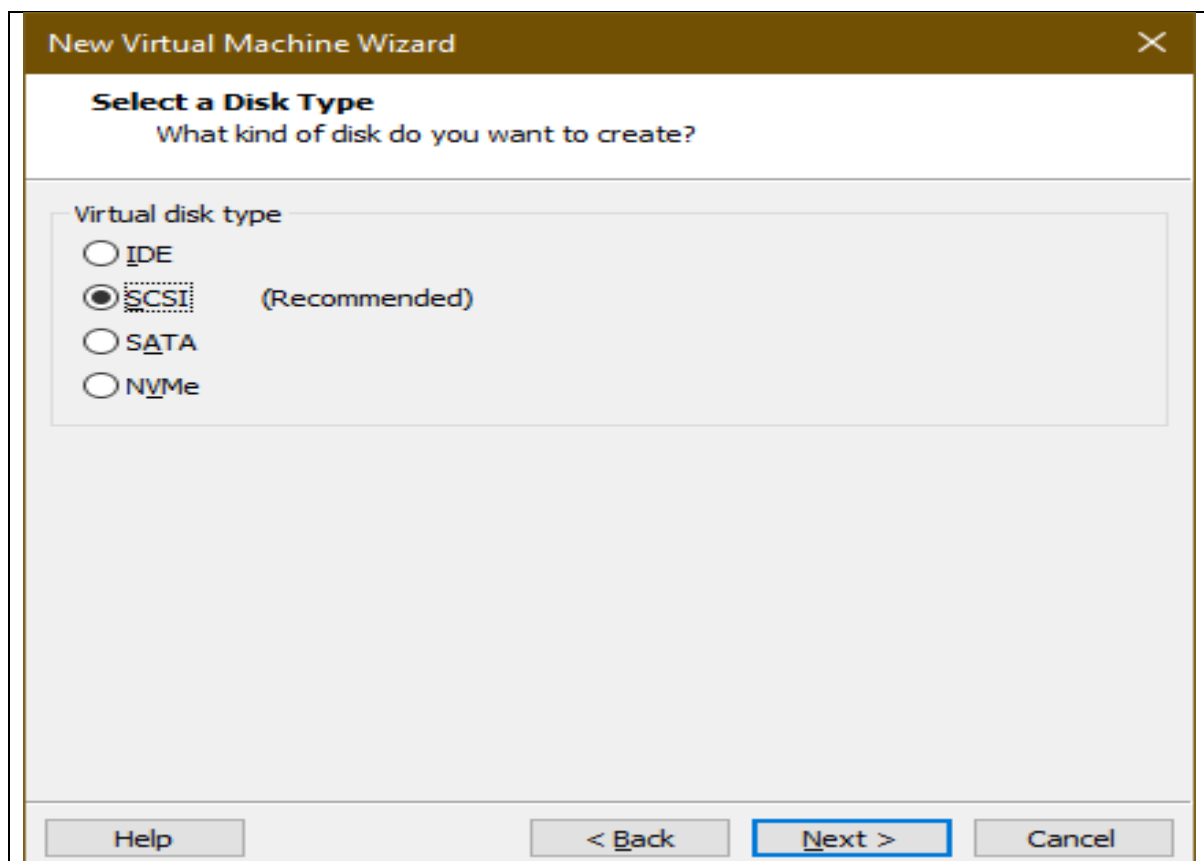
## 7. Gunakan mode jaringan NAT



## 8. Gunakan pengaturan default I/O Controller

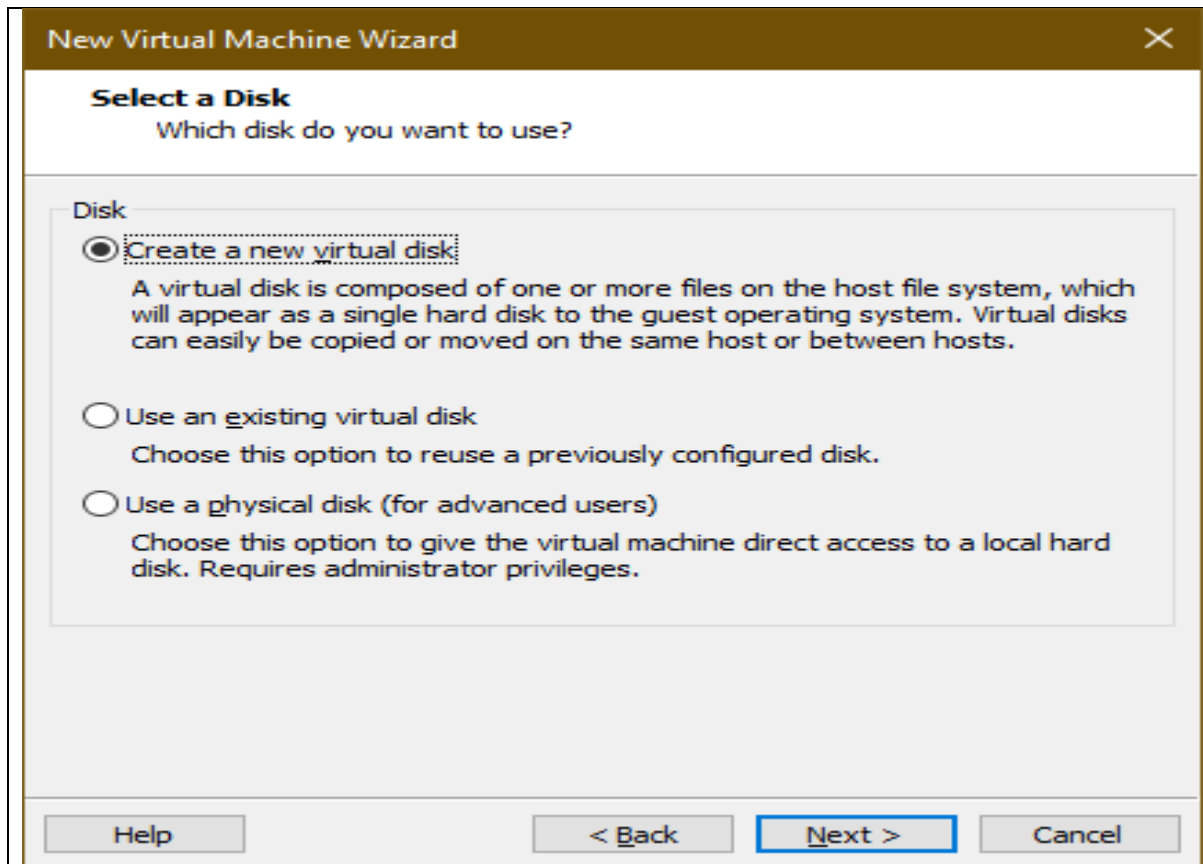


9. Gunakan pengaturan default Virtual Disk Type





10. Pilih opsi buat virtual disk baru



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

**New Virtual Machine Wizard** [X]

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

Maximum disk size (GB):

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

**New Virtual Machine Wizard** [X]

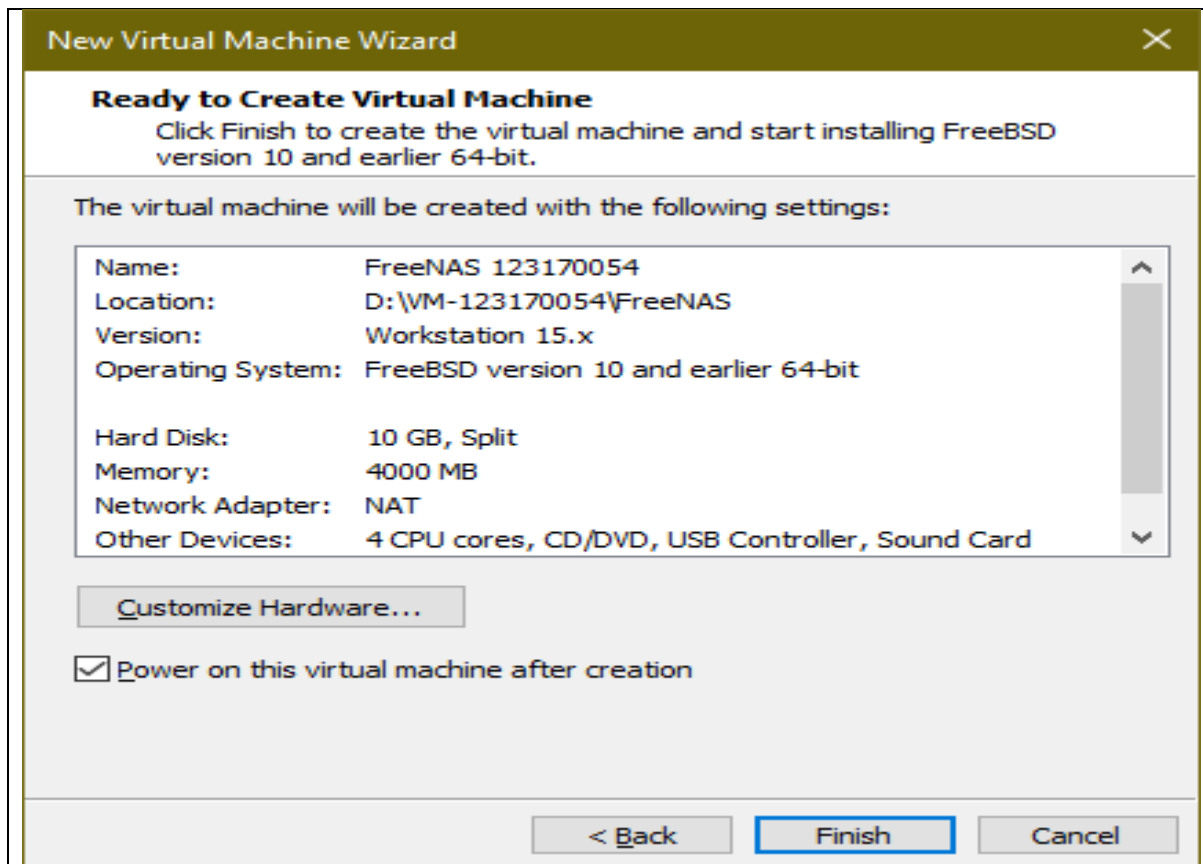
**Specify Disk File**  
Where would you like to store the disk file?

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.

Browse...

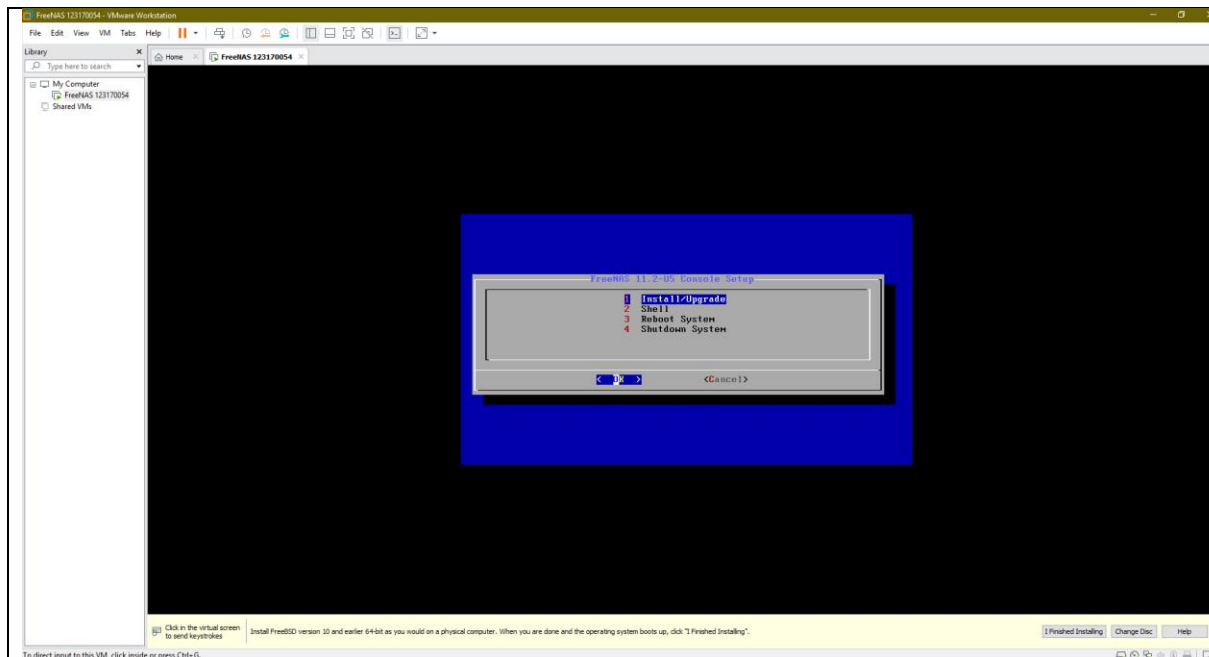
Help < Back Next > Cancel

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

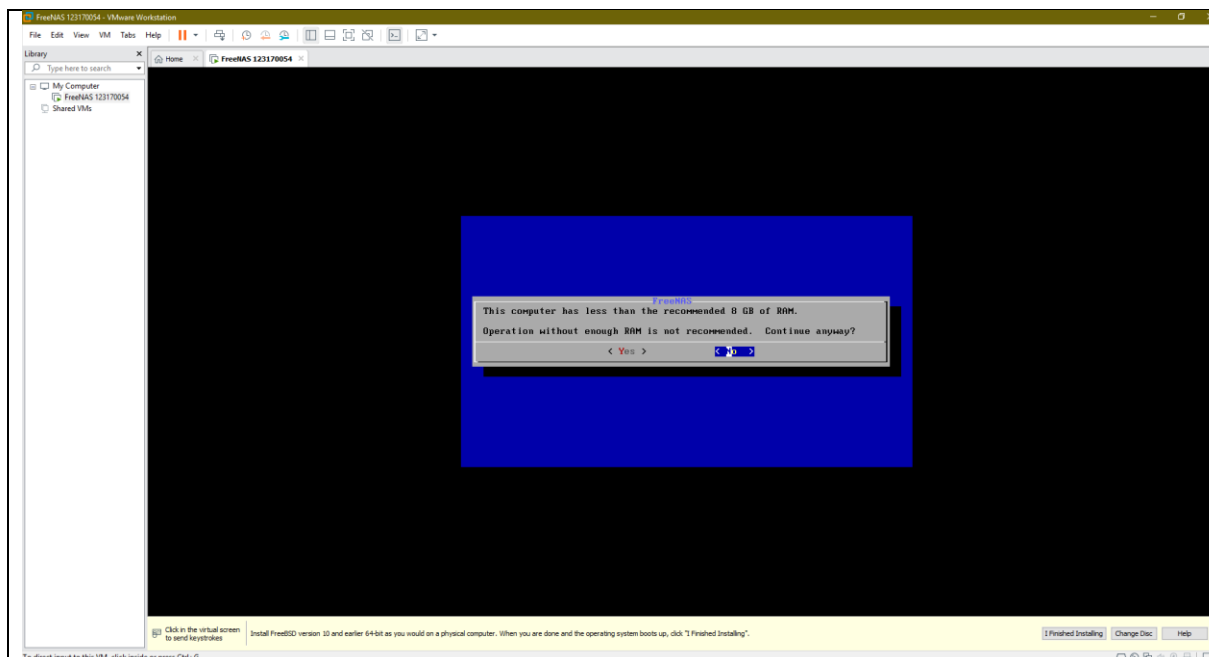


**TUGAS BAGIAN KEDUA – INSTALASI FREENAS:**

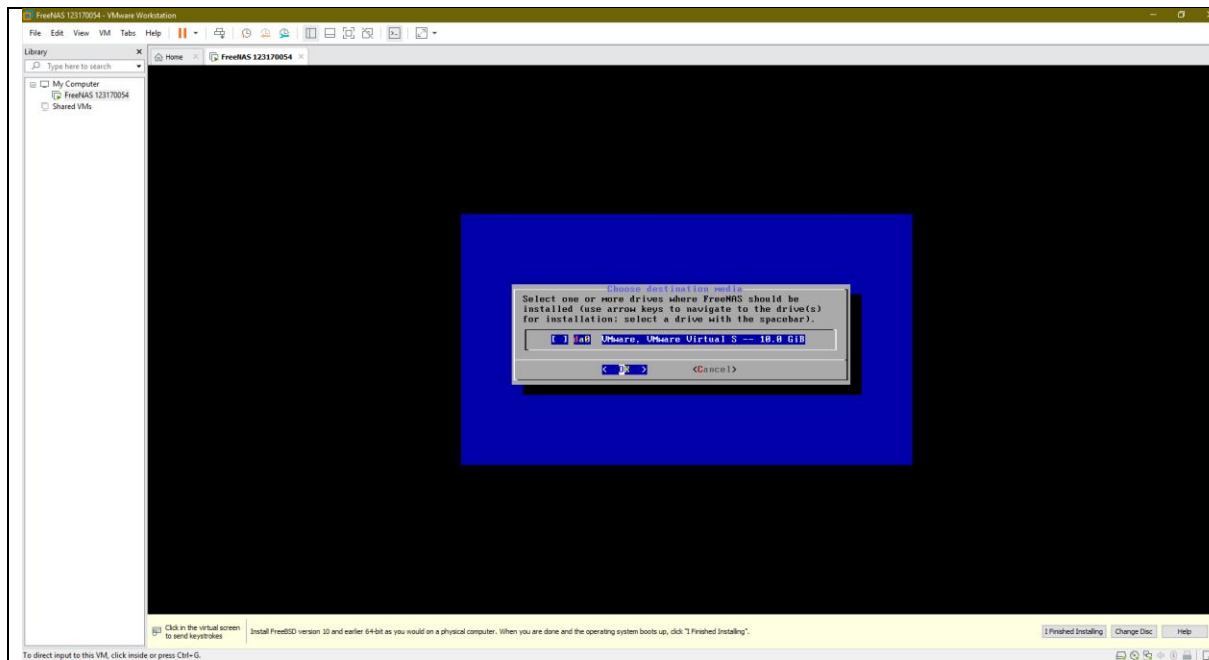
## 1. Tampilan awal tahap instalasi FreeNAS, pilih Install/Upgrade



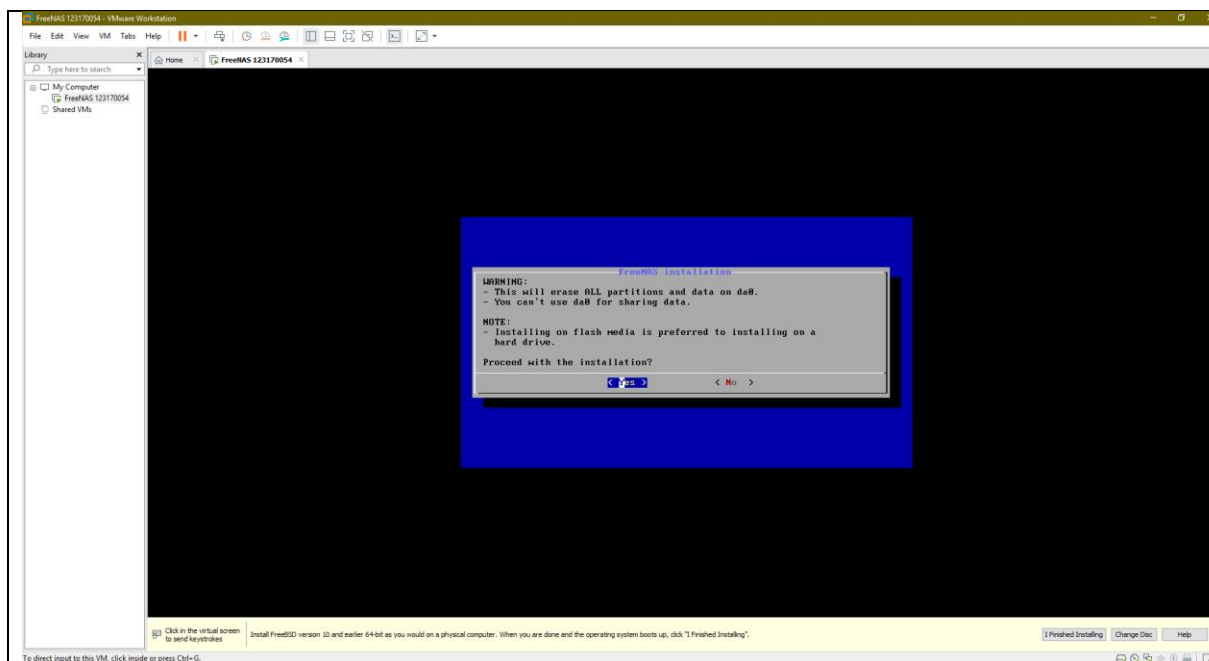
## 2. Tampilan warning RAM kurang dari 8GB, pilih Yes



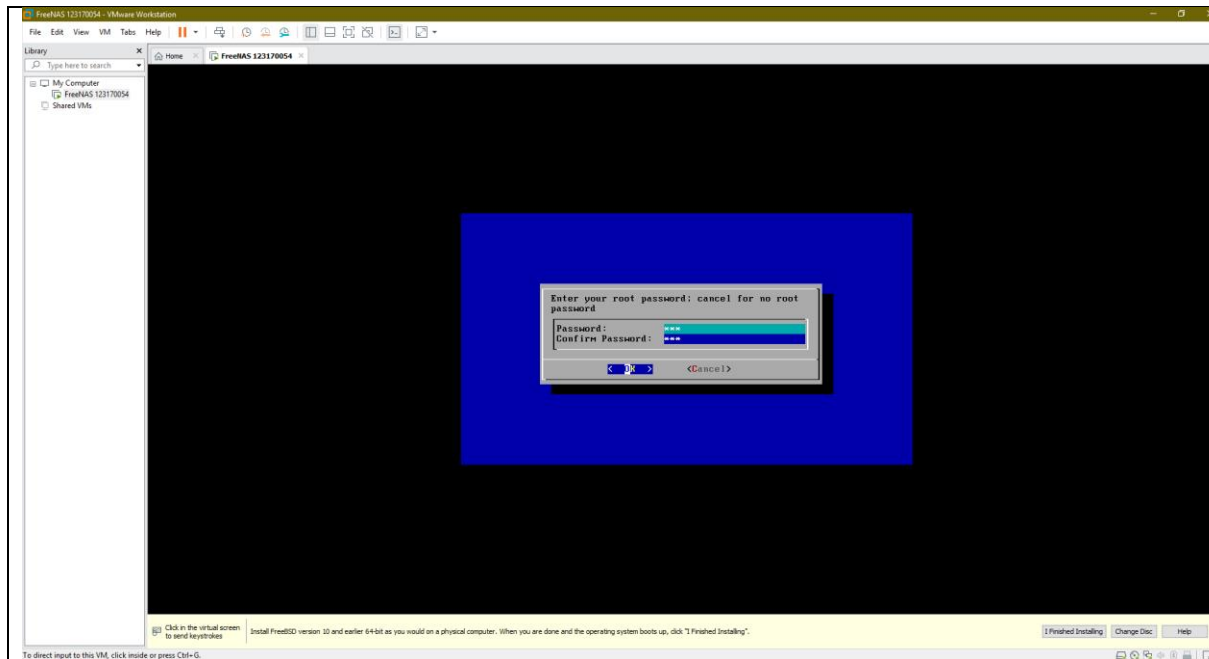
## 3. Tampilan pemilihan destination media untuk dipasang FreeNAS, pilih da0



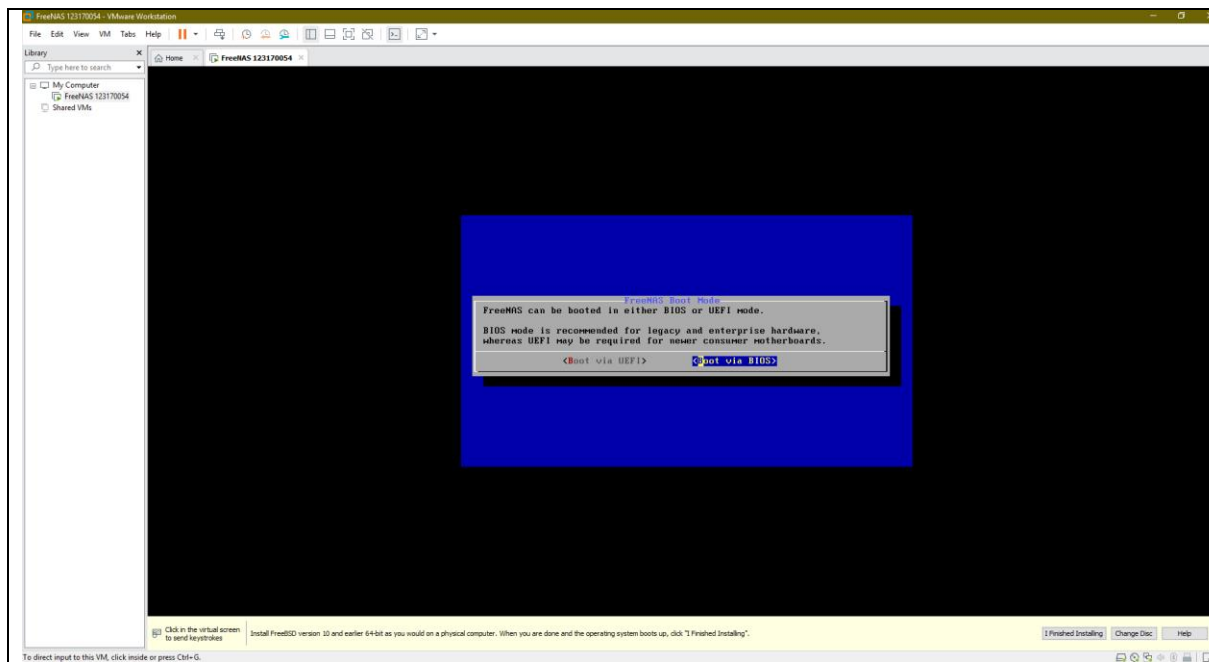
#### 4. Tampilan konfirmasi penghapusan/format media yang terpilih, pilih Yes



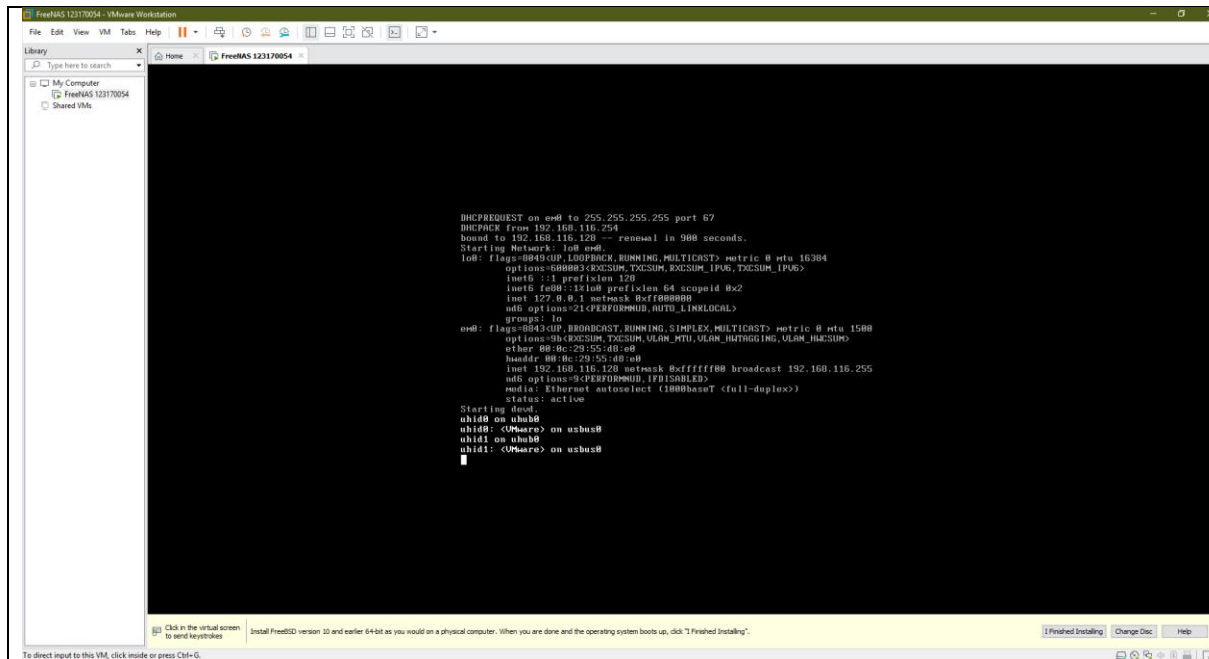
## 5. Tampilan pengaturan kata sandi, gunakan NIM atau bebas



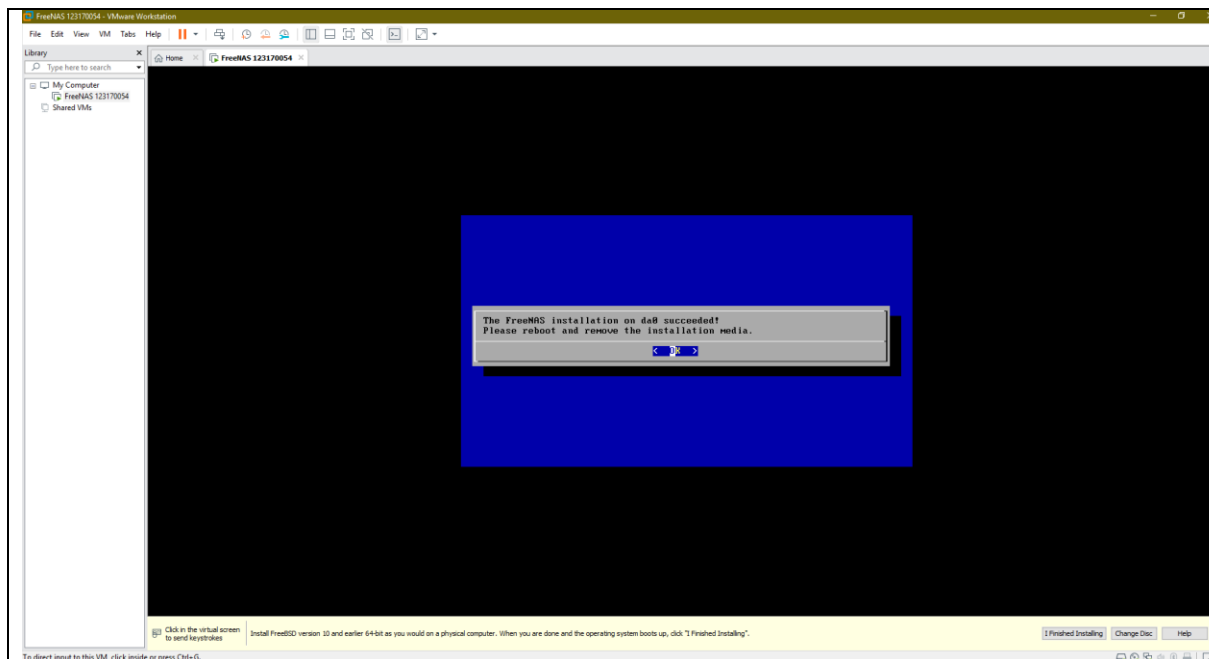
## 6. Tampilan mode boot dari FreeNAS, pilih BIOS



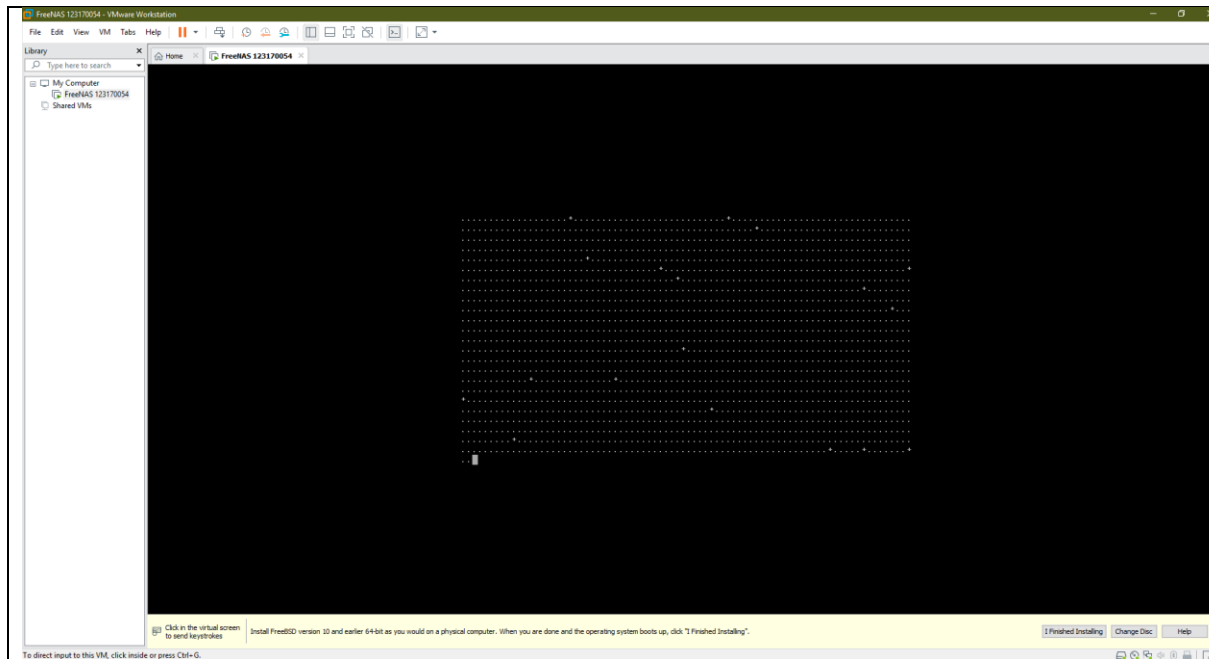
## 7. Tampilan proses instalasi FreeNAS



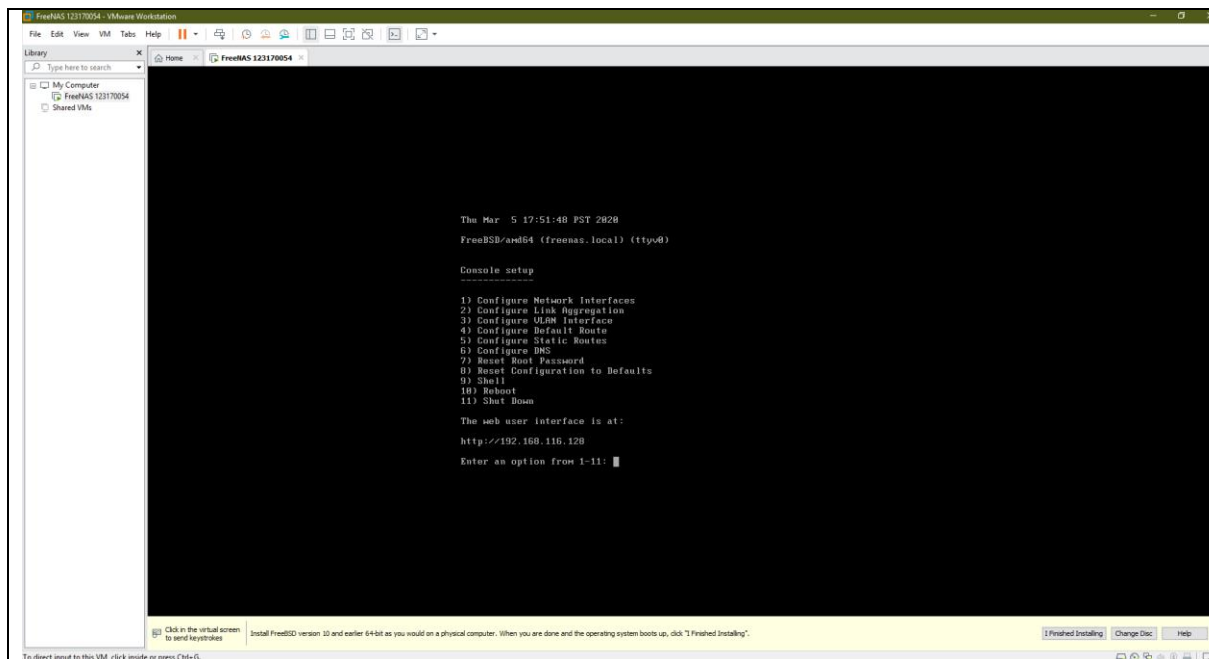
## 8. Tampilan hasil akhir proses instalasi FreeNAS, pilih OK kemudian pilih Reboot System



## 9. Tampilan proses booting menuju FreeNAS OS



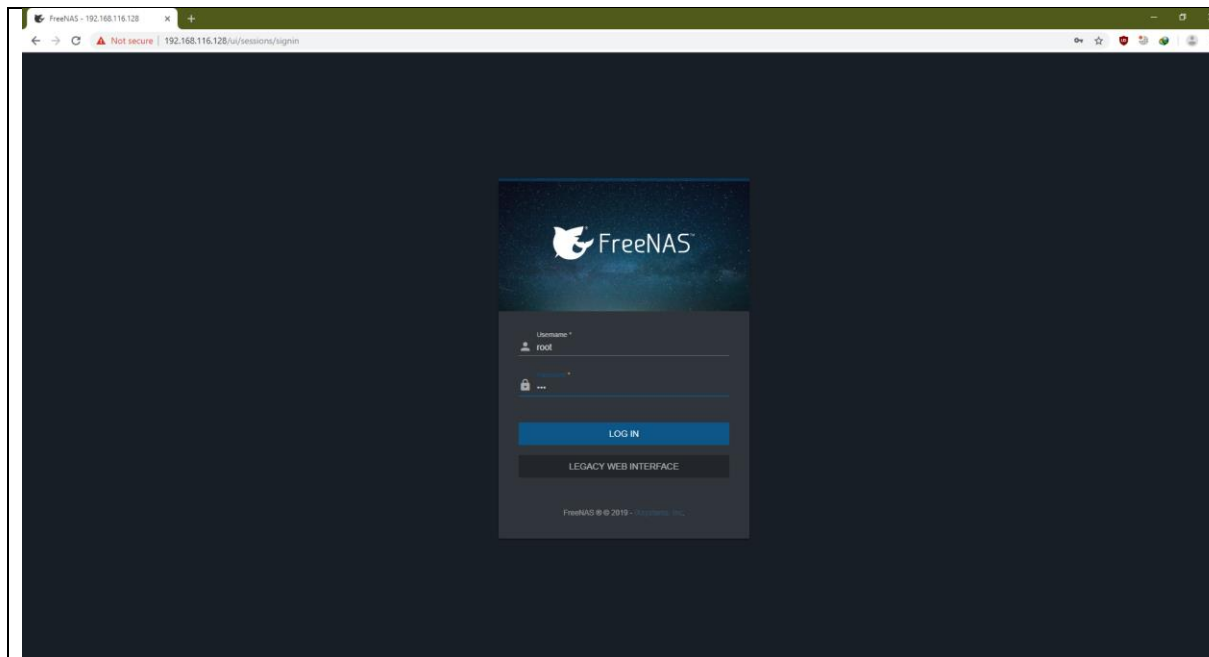
## 10. Tampilan hasil akhir booting yang menunjukkan Console Setup



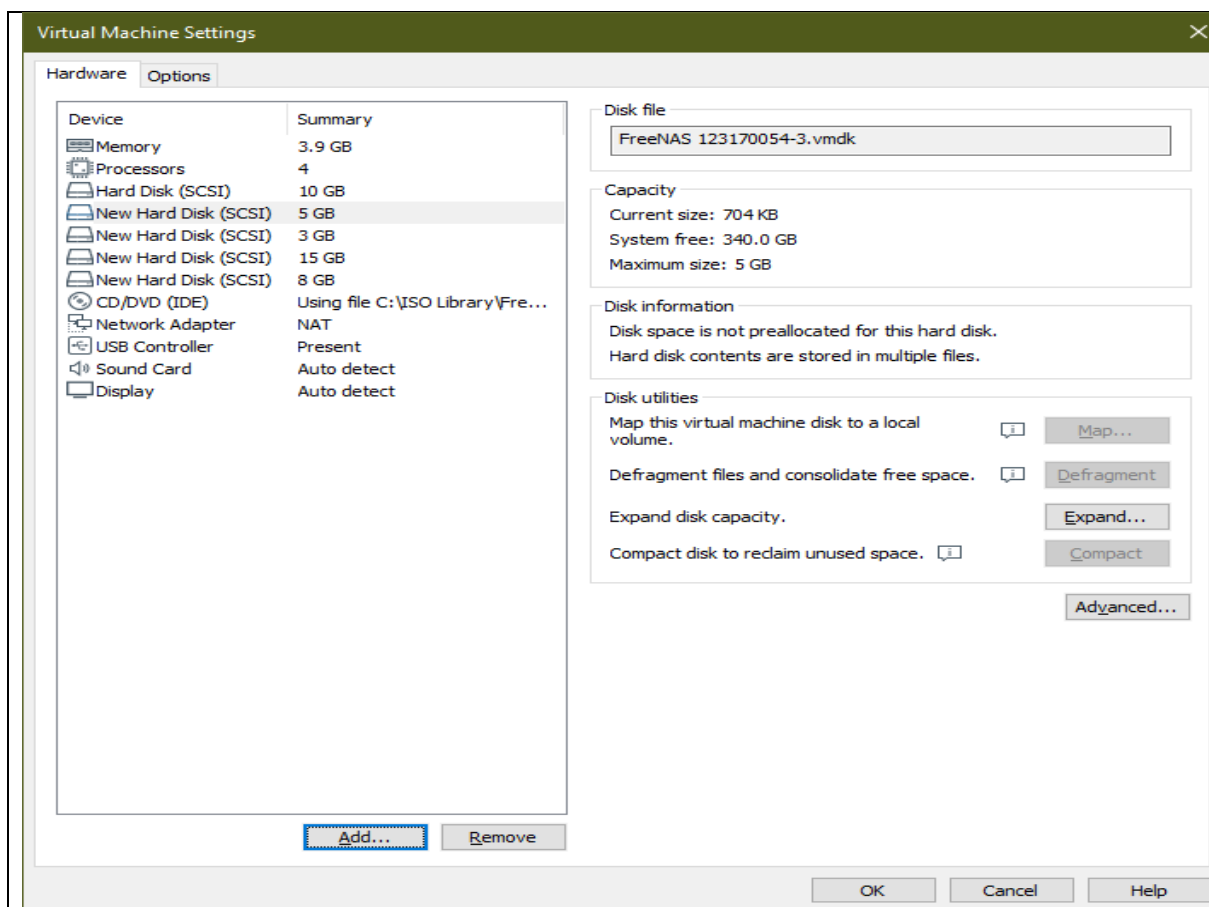


**TUGAS BAGIAN KETIGA – KONFIGURASI FREENAS:**

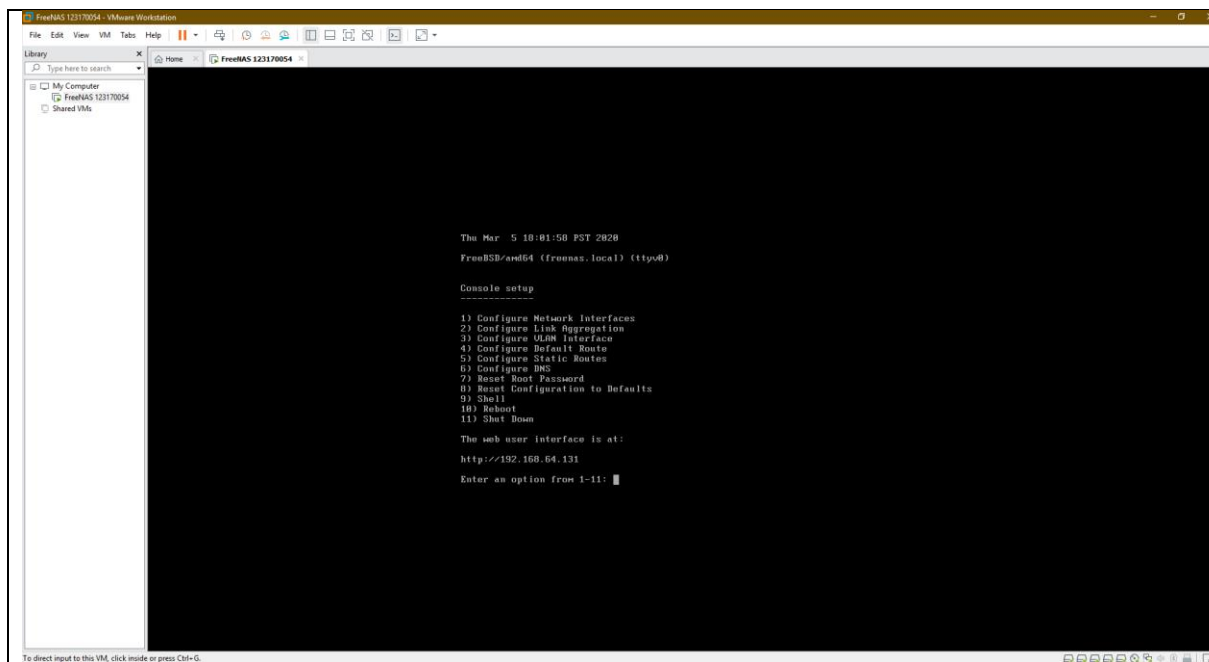
## 1. Tampilan dashboard setelah login FreeNAS



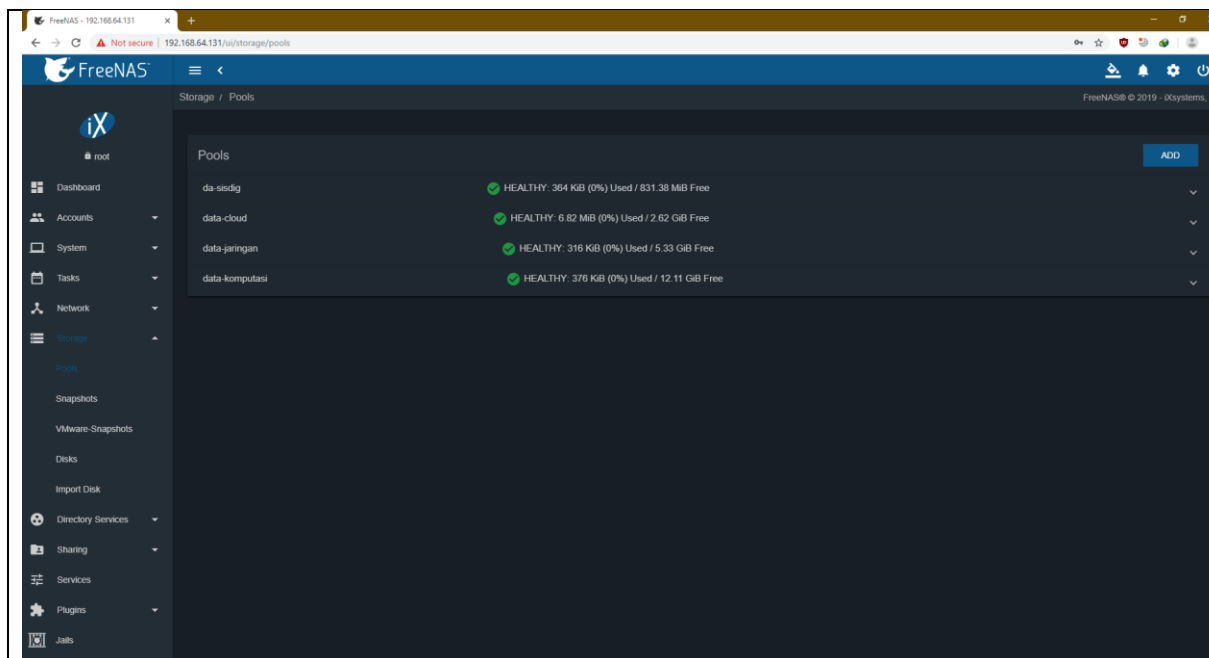
## 2. Tampilan konfigurasi VM pada Eksperimen #1



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



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



## 5. Tampilkan hasil dari pembuatan user tambahan pada menu Accounts -&gt; Users

The screenshot shows the FreeNAS web interface. The left sidebar contains a navigation menu with options like Dashboard, Accounts, Groups, Users, System, Tasks, Network, Storage, Directory Services, Sharing, Services, Plugins, Jails, Reporting, and Virtual Machines. The main content area is titled 'Accounts / Users' and displays a table of users. A 'Save password?' dialog is open over the 'sddig' user entry.

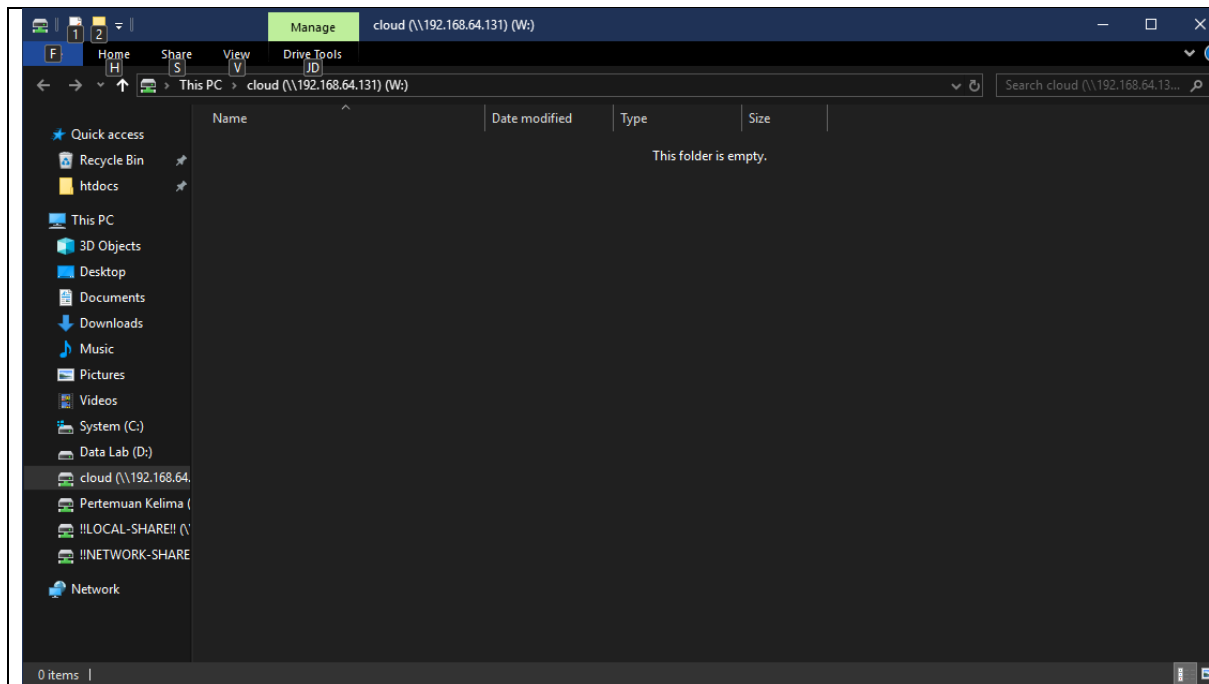
Username	Home directory	Shell	Full Name	Lock User
cloud	/nonexistent	/bin/csh	Lab Cloud	no
jaringan	/nonexistent	/bin/csh	Lab Jaringan	no
komputasi	/nonexistent	/bin/csh	Lab Komputasi	no
sddig	/nonexistent	/bin/csh	Lab Sddig	no
root	/root	/usr/local/bin/zsh	root	no
daemon	/root	/usr/sbin/nologin	Owner of many system processes	no
operator	/	/usr/sbin/nologin	System &	no
bin	/	/usr/sbin/nologin	Binaries Commands and Source	no
lty	/	/usr/sbin/nologin	Lty Sandbox	no
knem	/	/usr/sbin/nologin	Knem Sandbox	no
games	/	/usr/sbin/nologin	Games pseudo-user	no
news	/	/usr/sbin/nologin	News Subsystem	no

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

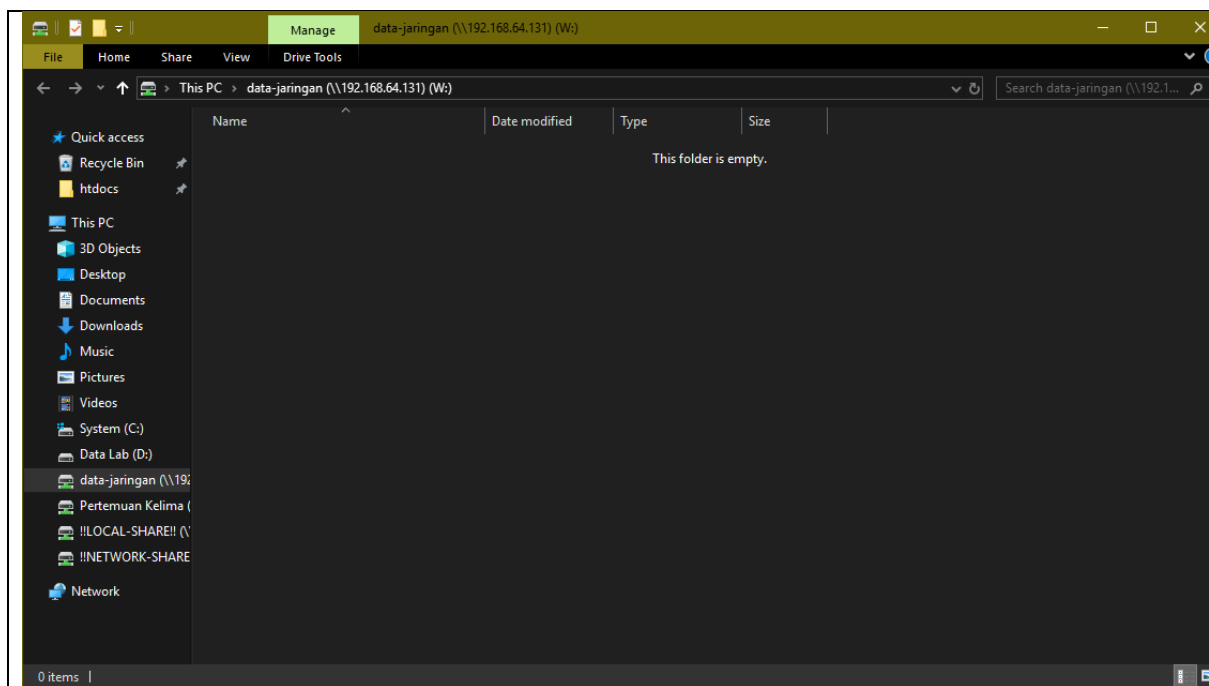
The screenshot shows the FreeNAS web interface. The left sidebar contains a navigation menu with options like Dashboard, Accounts, Groups, Users, System, Tasks, Network, Storage, Directory Services, Sharing, Services, Plugins, Jails, Reporting, and Virtual Machines. The main content area is titled 'Sharing / SMB' and displays a table of Samba shares. A 'Service started' notification is visible at the bottom.

Name	Path
cloud	/mnt/data-cloud
data-jaringan	/mnt/data-jaringan
data-komputasi	/mnt/data-komputasi
sddig	/mnt/data-sddig

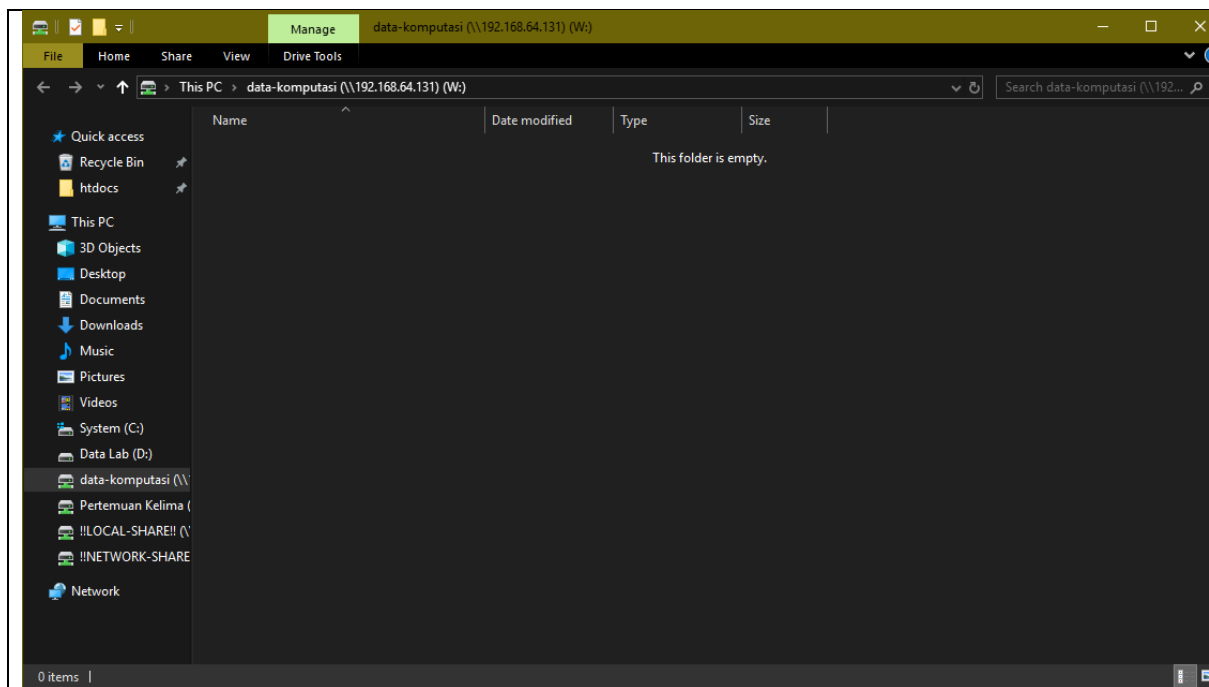
7. Tampilkan hasil akses shares pada Windows Explorer (hasil mapping) untuk Lab Cloud (yang pertama kali dibuat)



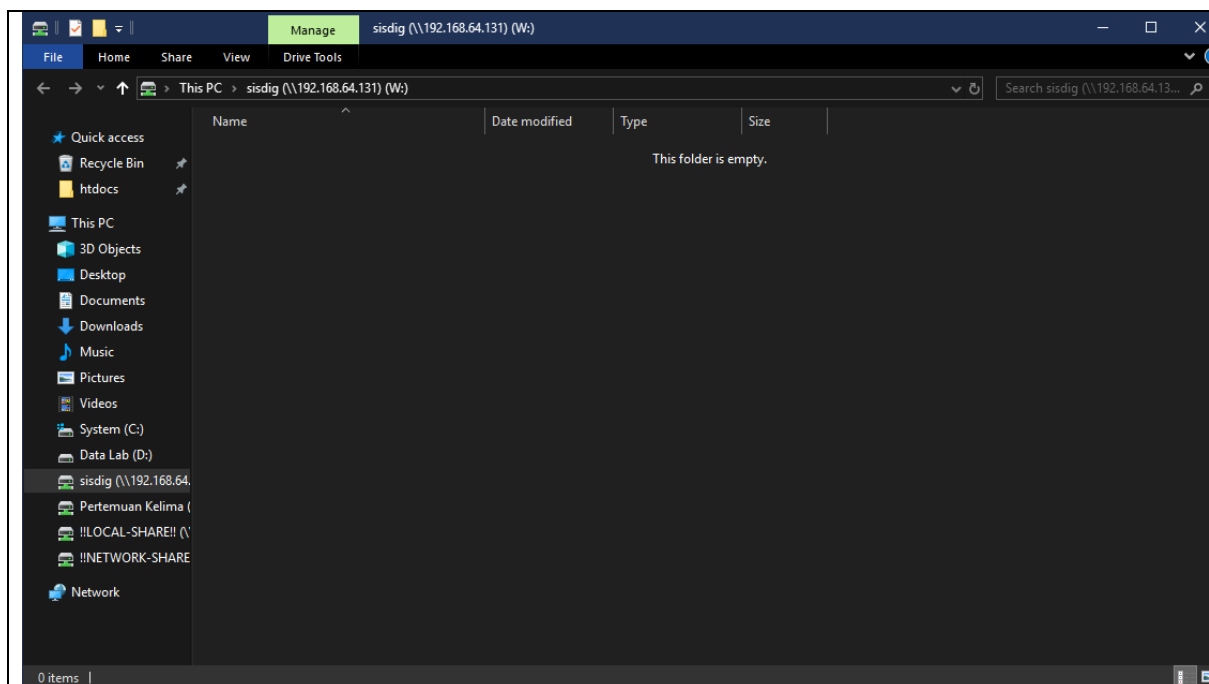
8. Tampilkan hasil akses shares untuk Lab Jaringan



## 9. Tampilkan hasil akses shares untuk Lab Komputasi



## 10. Tampilkan hasil akses shares untuk Lab Sisdig



**DOKUMENTASI PERTEMUAN KELIMA (BILA ADA)**