



## **LEMBAR KERJA PRAKTIKUM CLOUD COMPUTING**

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

#### **IDENTITAS:**

|                |                                |
|----------------|--------------------------------|
| Nama:          | <b>Nadia Stefanny Ambarita</b> |
| NIM:           | <b>123170002</b>               |
| Kelas:         | <b>B</b>                       |
| Hari, Tanggal: | <b>Kamis, 05-03-2020</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
```

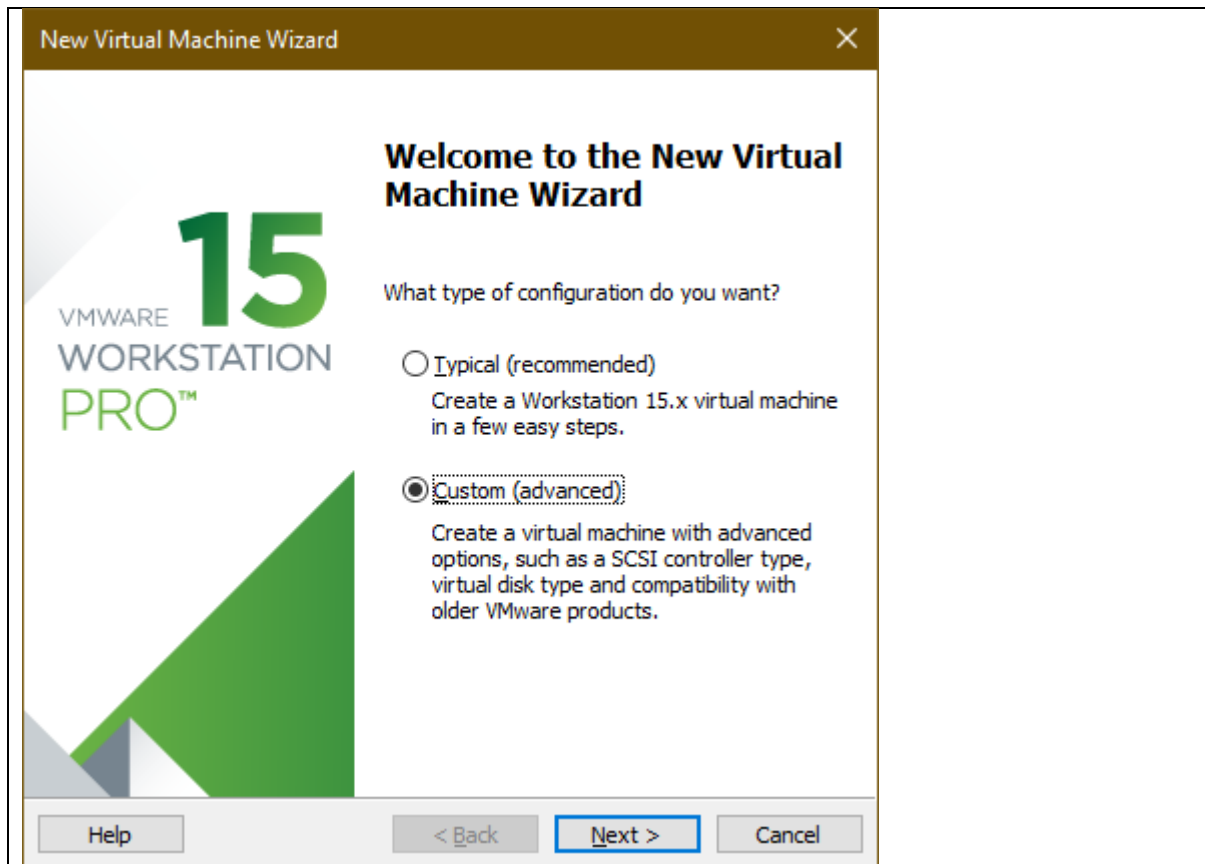
Perintah exit digunakan untuk keluar dari sesi akun aktif

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

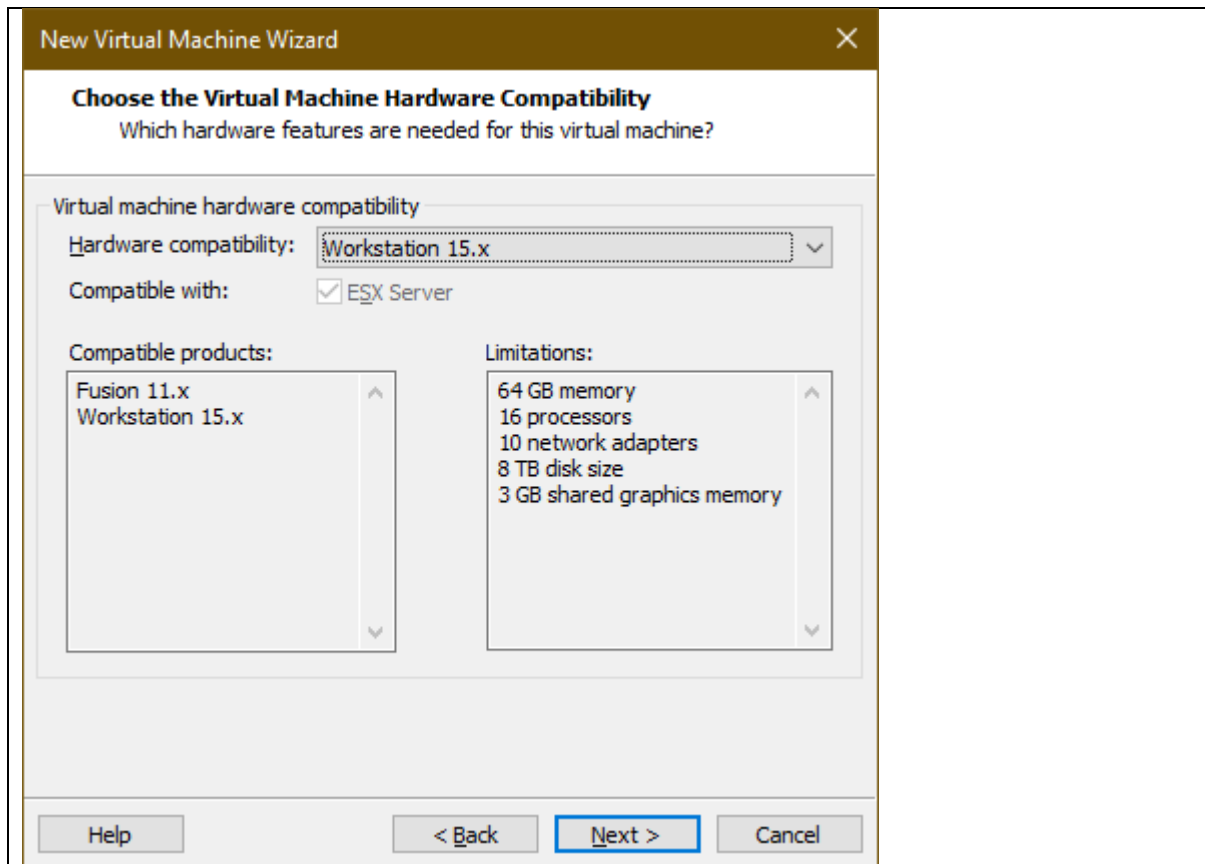


## **TUGAS BAGIAN PERTAMA – PEMBUATAN VM:**

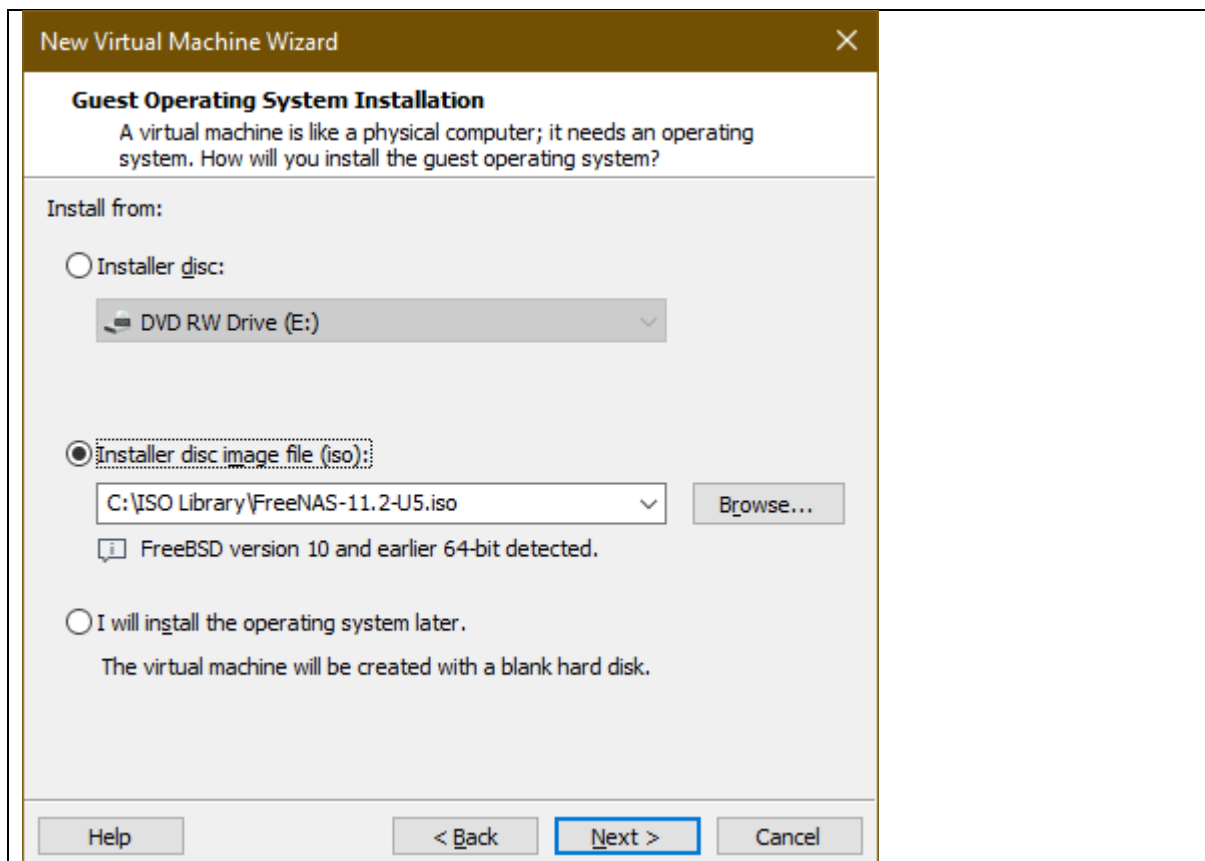
1. Gunakan opsi konfigurasi Custom



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?

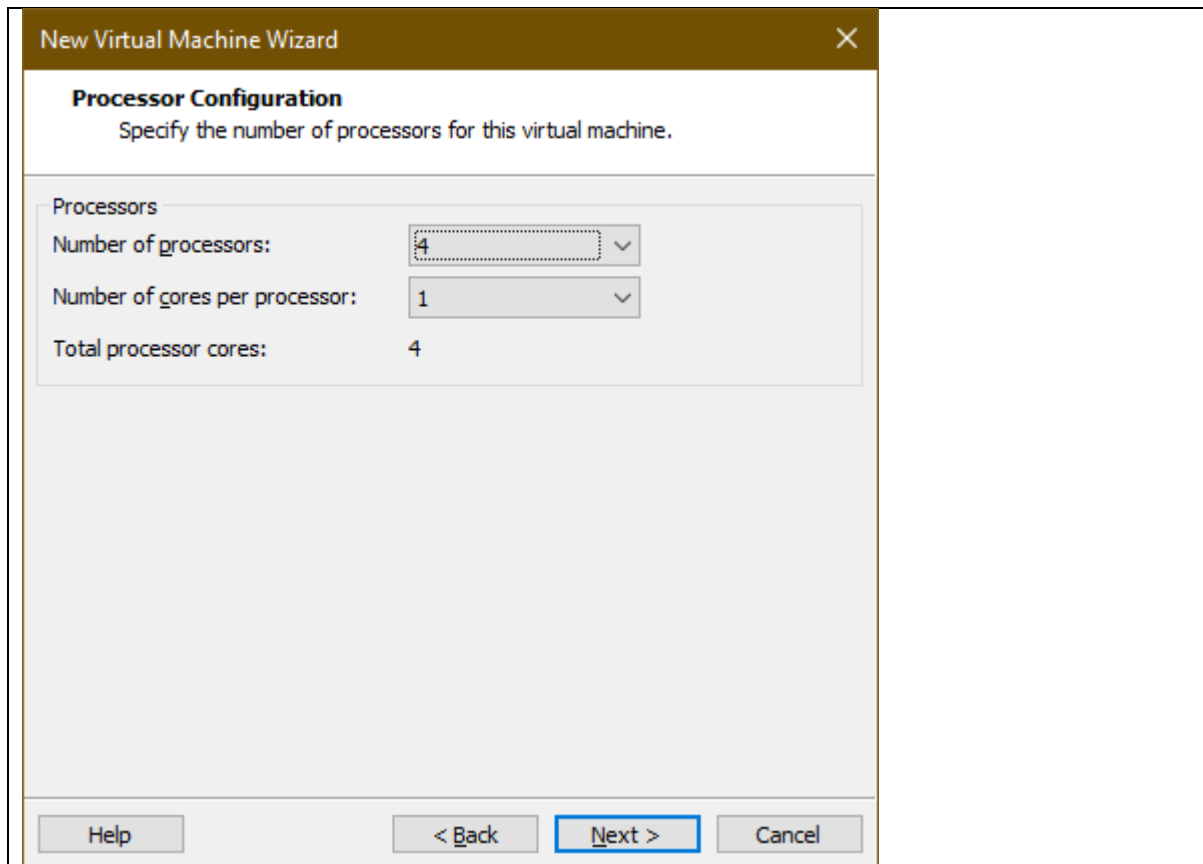
Virtual machine name:  
FreeNAS 123170002

Location:  
D:\VM-12170002-2\FreeNAS [Browse...](#)

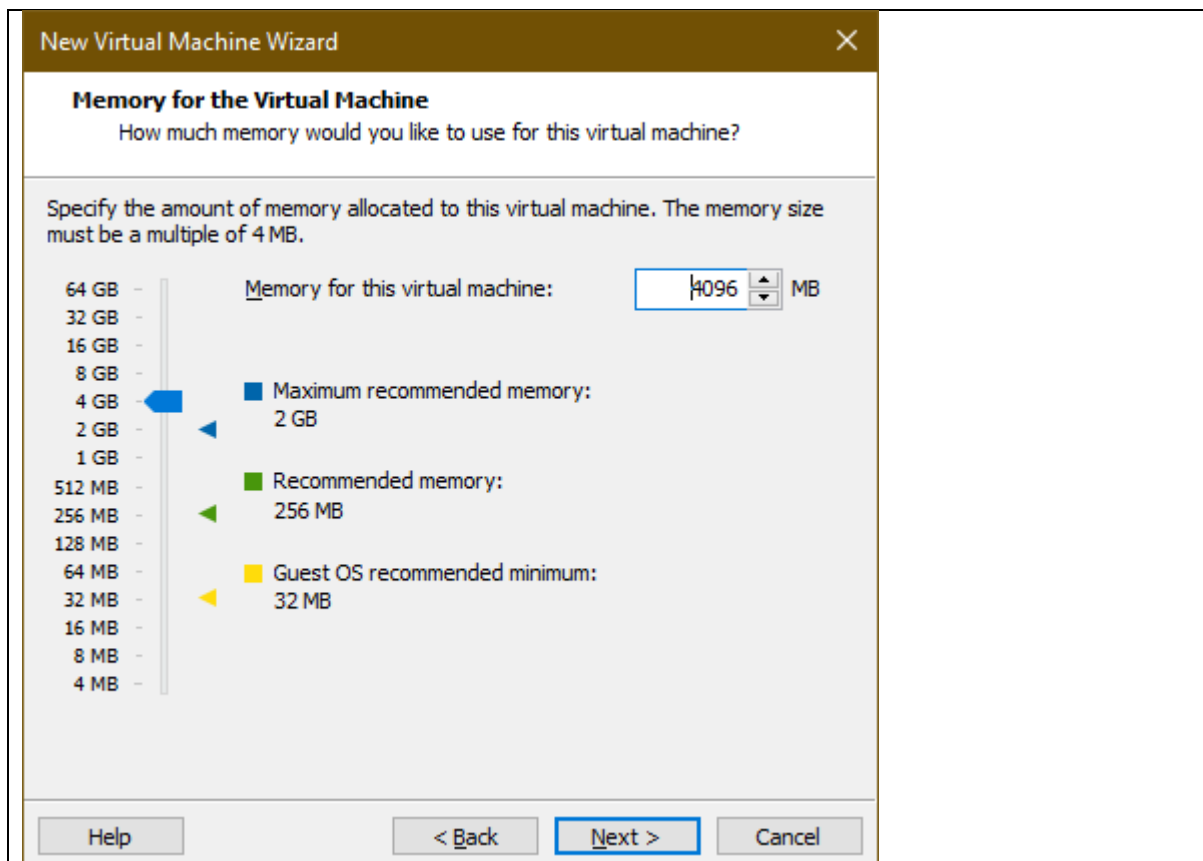
The default location can be changed at Edit > Preferences.

< Back   Next >   Cancel

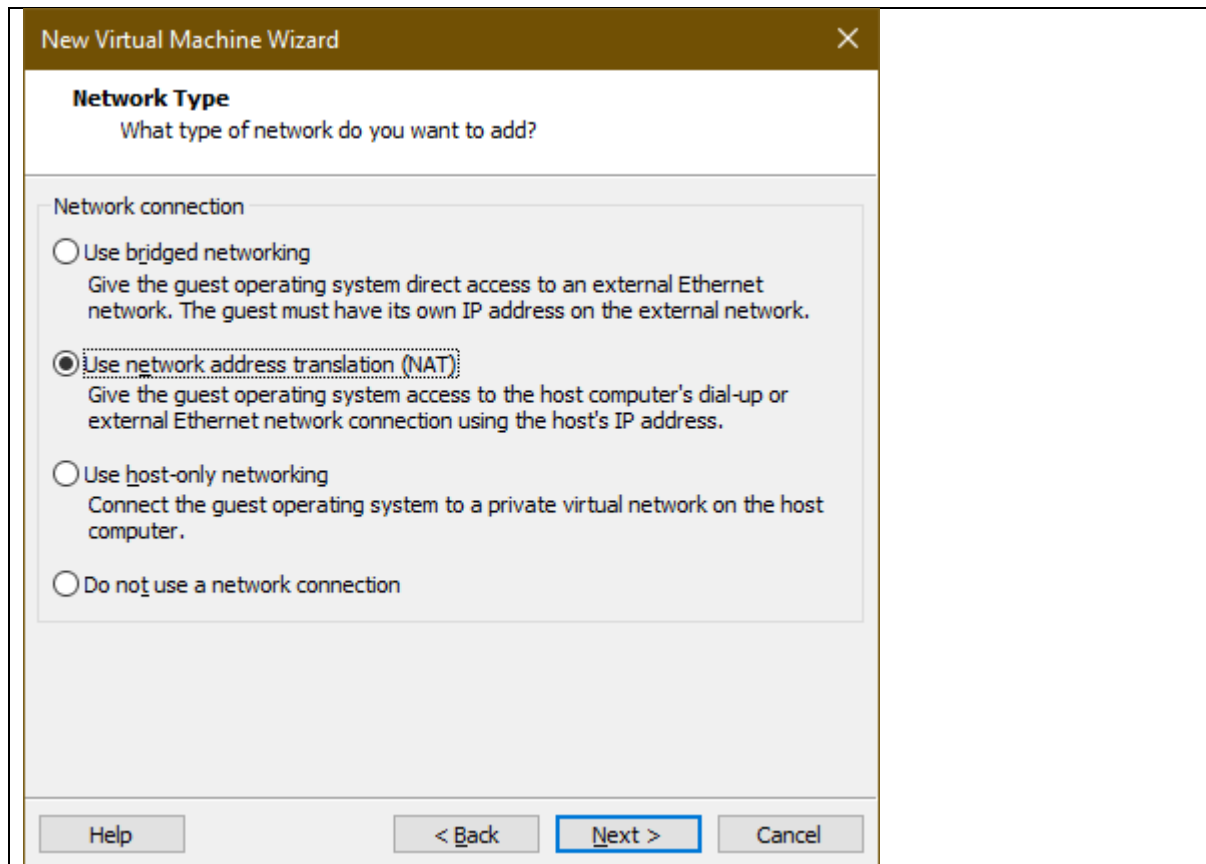
5. Gunakan 4 processor dan 1 core



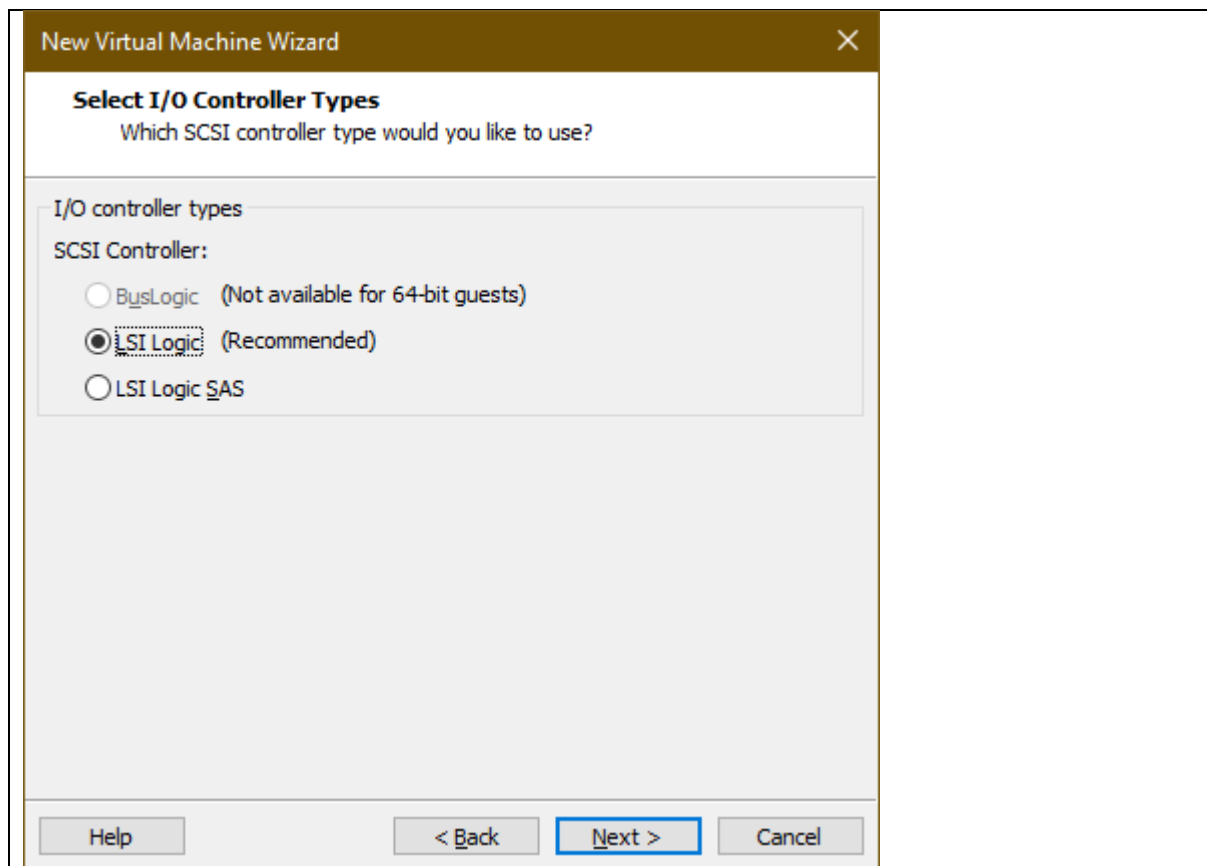
6. Gunakan RAM sebesar 4 GB



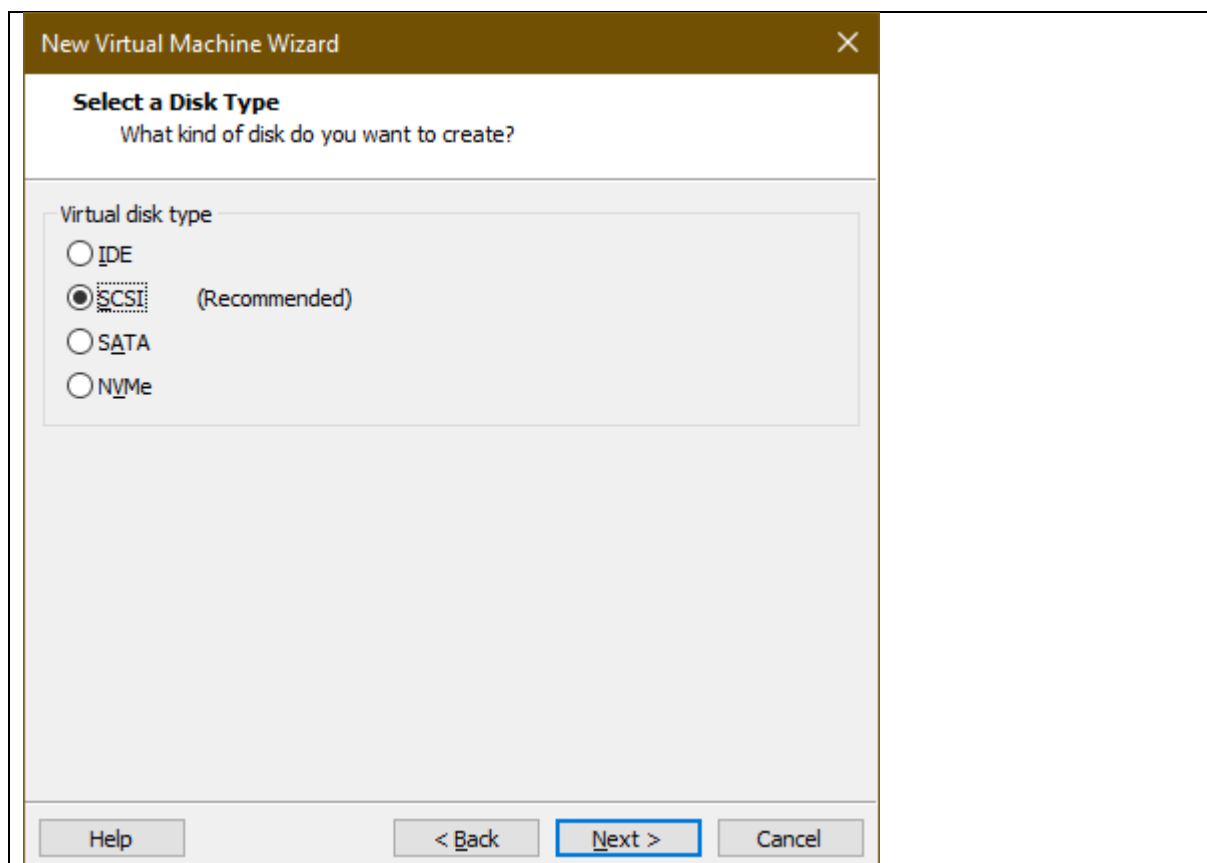
## 7. Gunakan mode jaringan NAT



## 8. Gunakan pengaturan default I/O Controller

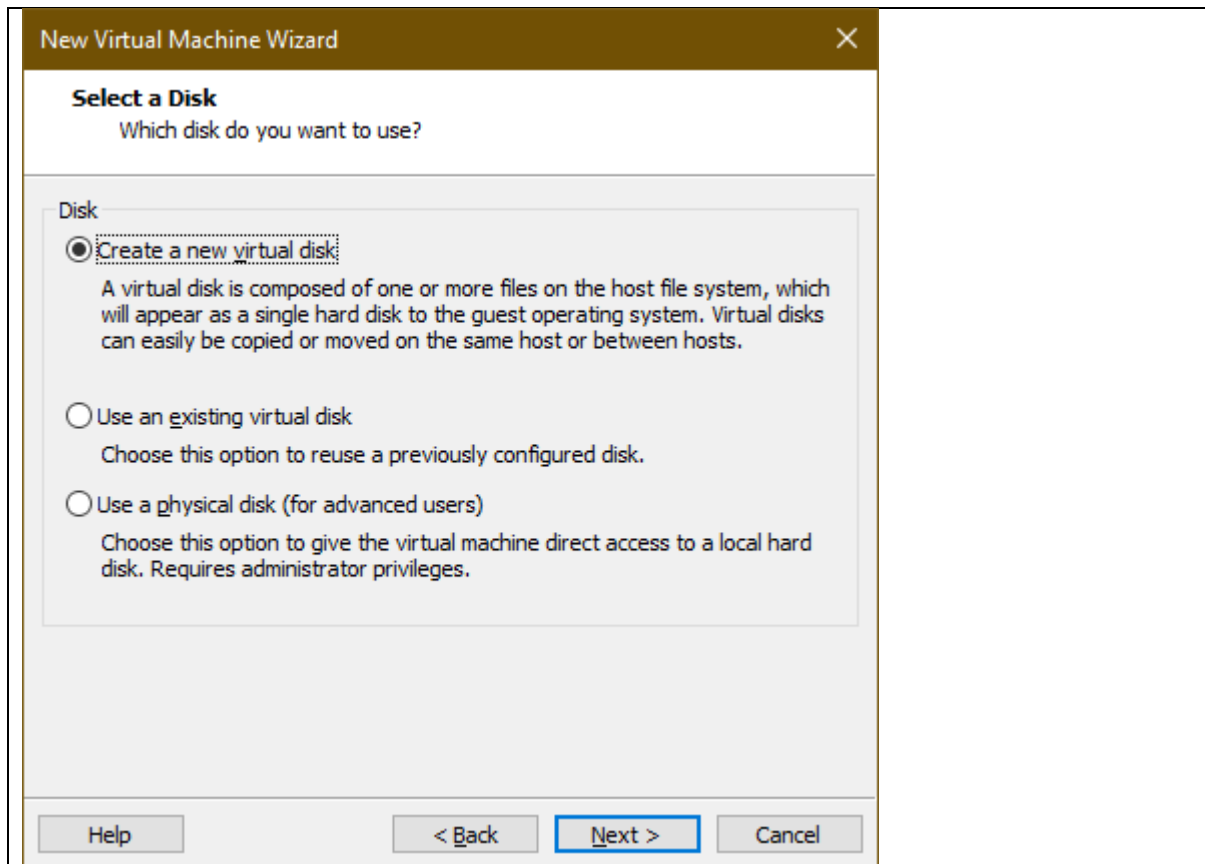


9. Gunakan pengaturan default Virtual Disk Type





## 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 window title is 'New Virtual Machine Wizard' with a close button (X) in the top right corner. The main heading is 'Specify Disk Capacity' with a subtitle 'How large do you want this disk to be?'. Below this, there is a text field for 'Maximum disk size (GB):' with the value '10.0' and a small up/down arrow icon. 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 >', and 'Cancel'. The 'Next >' button is highlighted with a blue border.

New Virtual Machine Wizard

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

Maximum disk size (GB): 10.0

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 window title is 'New Virtual Machine Wizard' with a close button (X) in the top right corner. The main heading is 'Specify Disk File' with a subtitle 'Where would you like to store the disk file?'. Below this, there is a section titled 'Disk file' with a text box containing 'FreeNAS 123170002.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 >', and 'Cancel'. The 'Next >' button is highlighted with a blue border.

New Virtual Machine Wizard

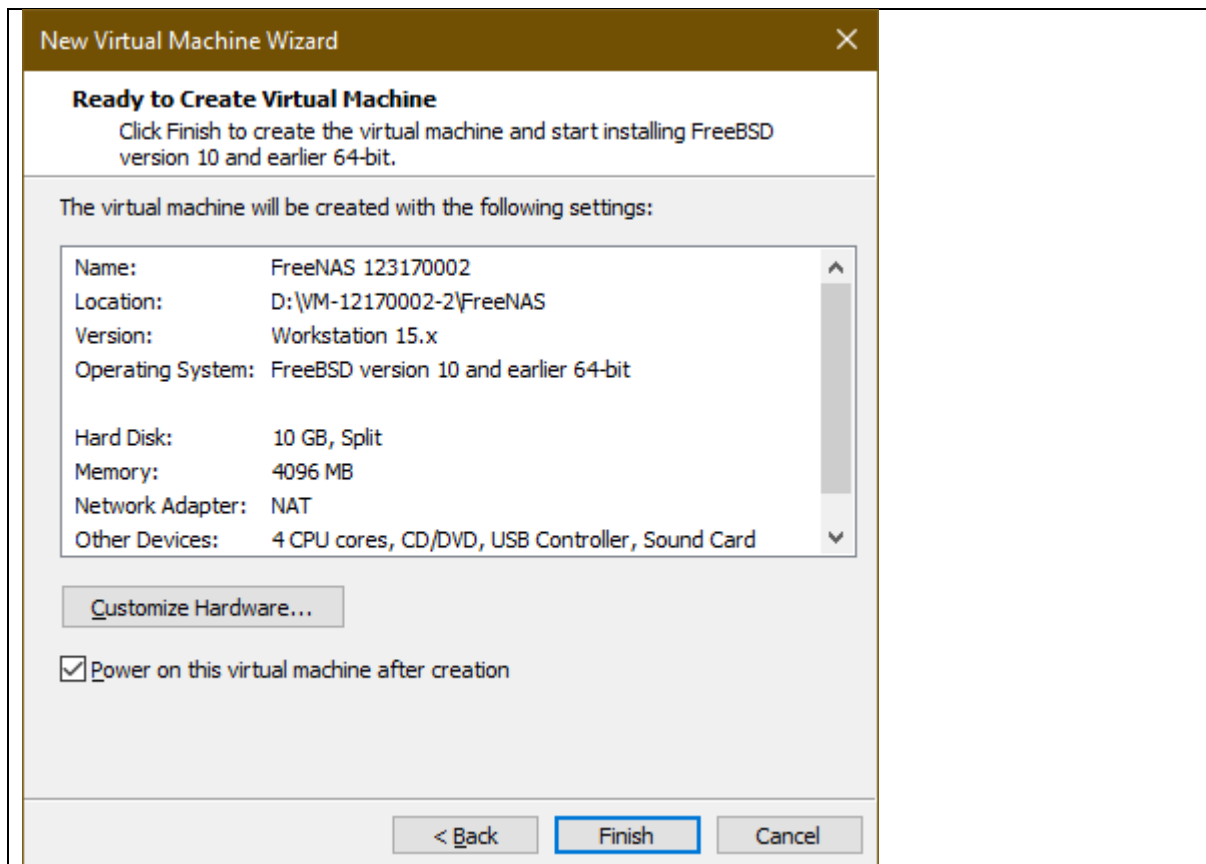
**Specify Disk File**  
Where would you like to store the disk file?

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 123170002.vmdk Browse...

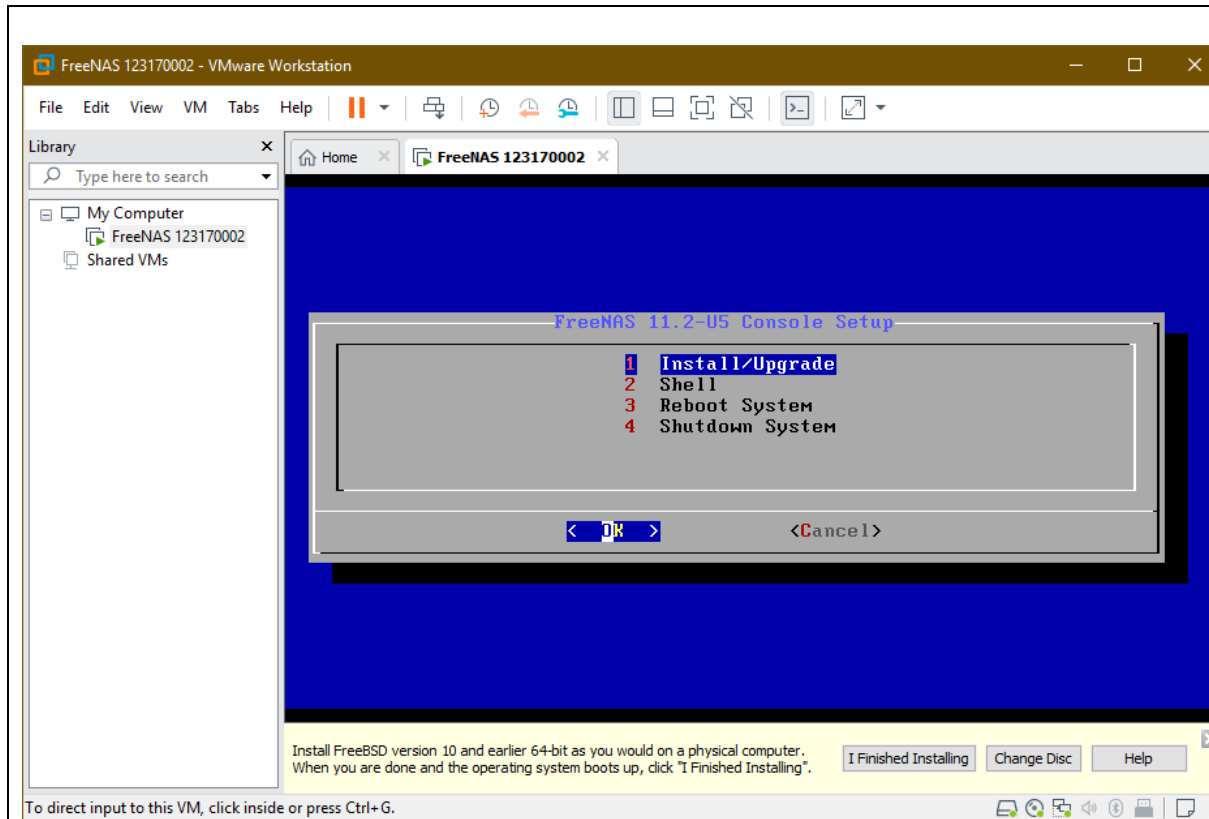
Help < Back Next > Cancel

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

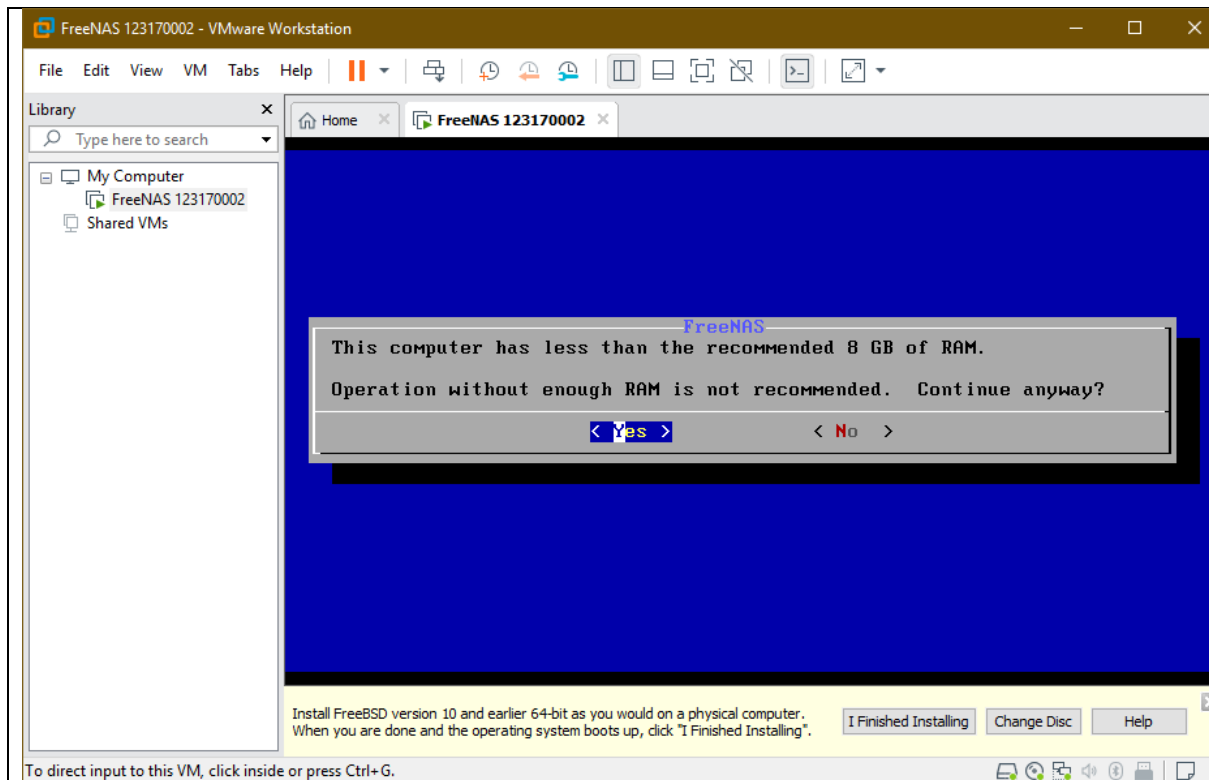


**TUGAS BAGIAN KEDUA – INSTALASI FREENAS:**

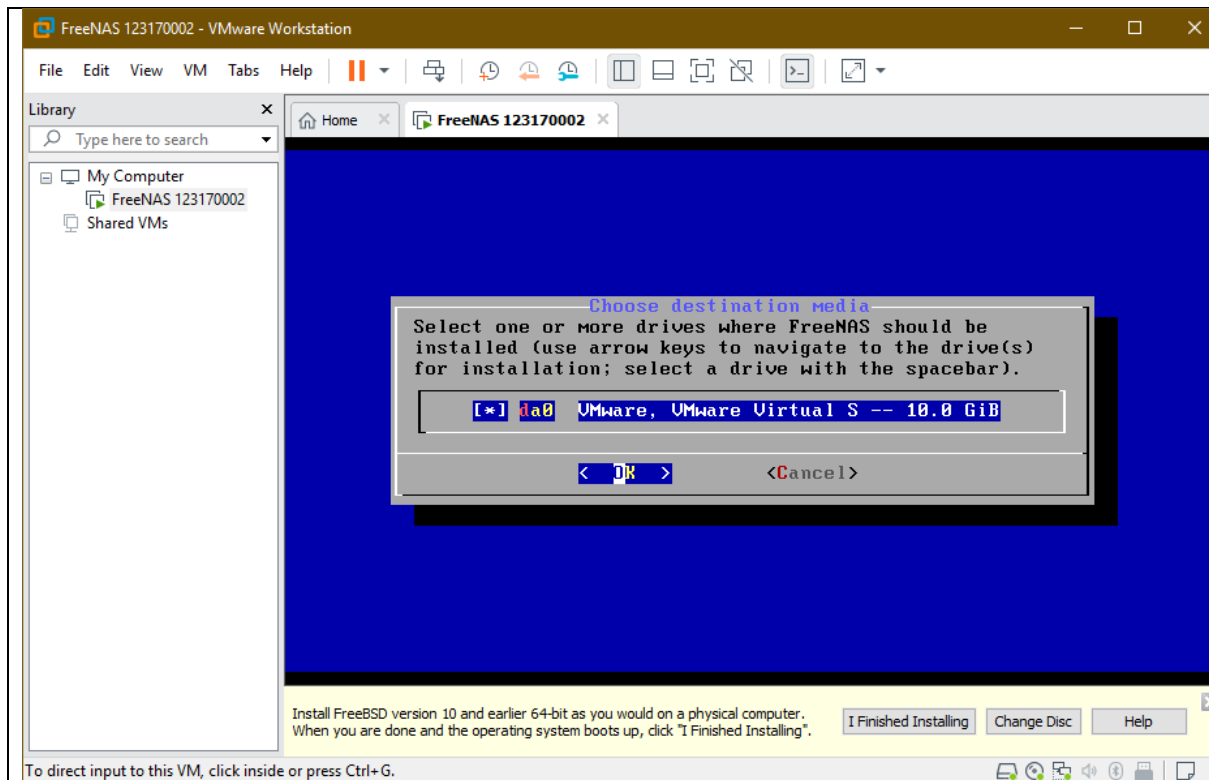
1. Tampilan awal tahap instalasi FreeNAS, pilih Install/Upgrade



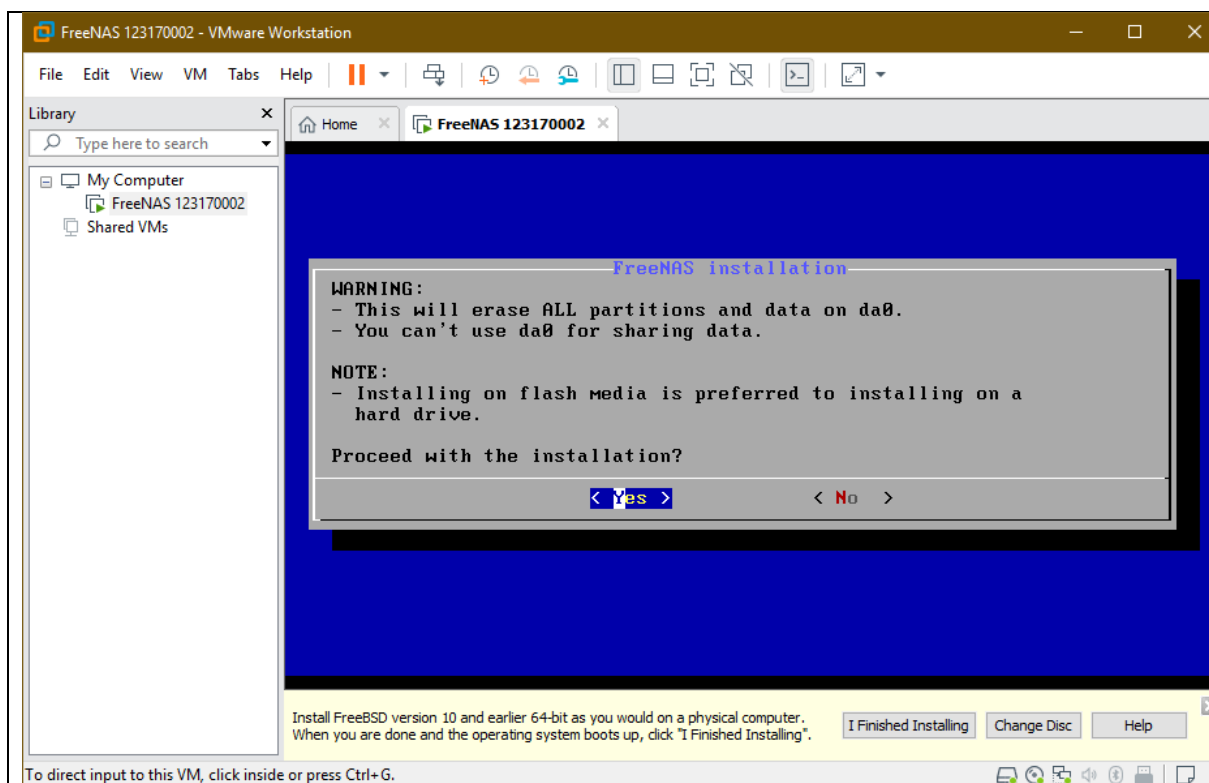
2. Tampilan warning RAM kurang dari 8GB, pilih Yes



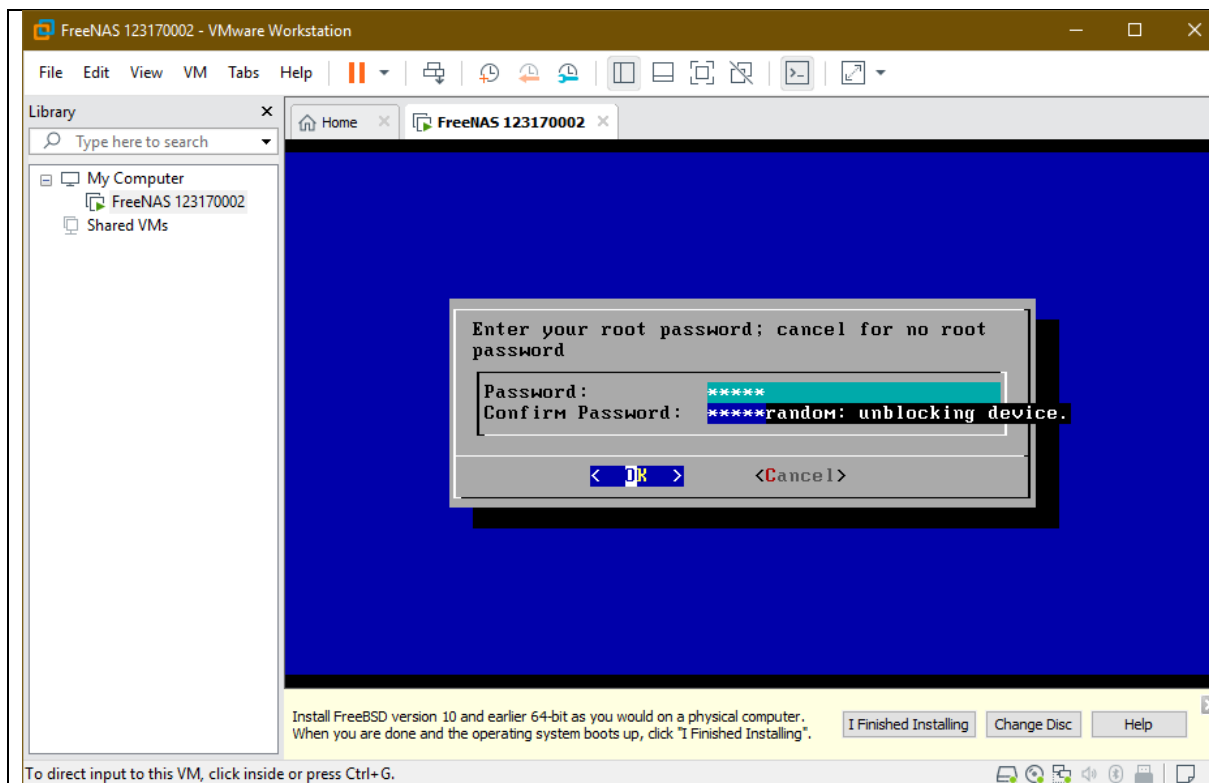
### 3. Tampilan pemilihan destination media untuk dipasang FreeNAS, pilih da0



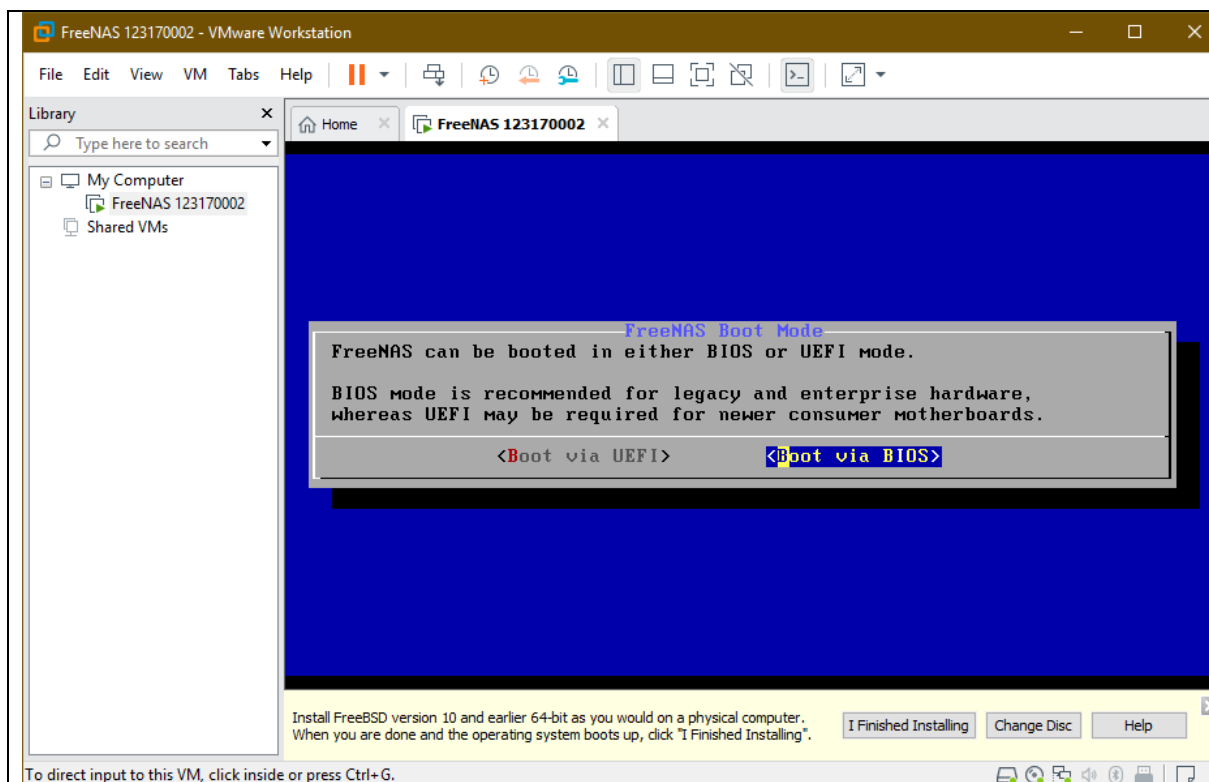
### 4. Tampilan konfirmasi penghapusan/format media yang terpilih, pilih Yes



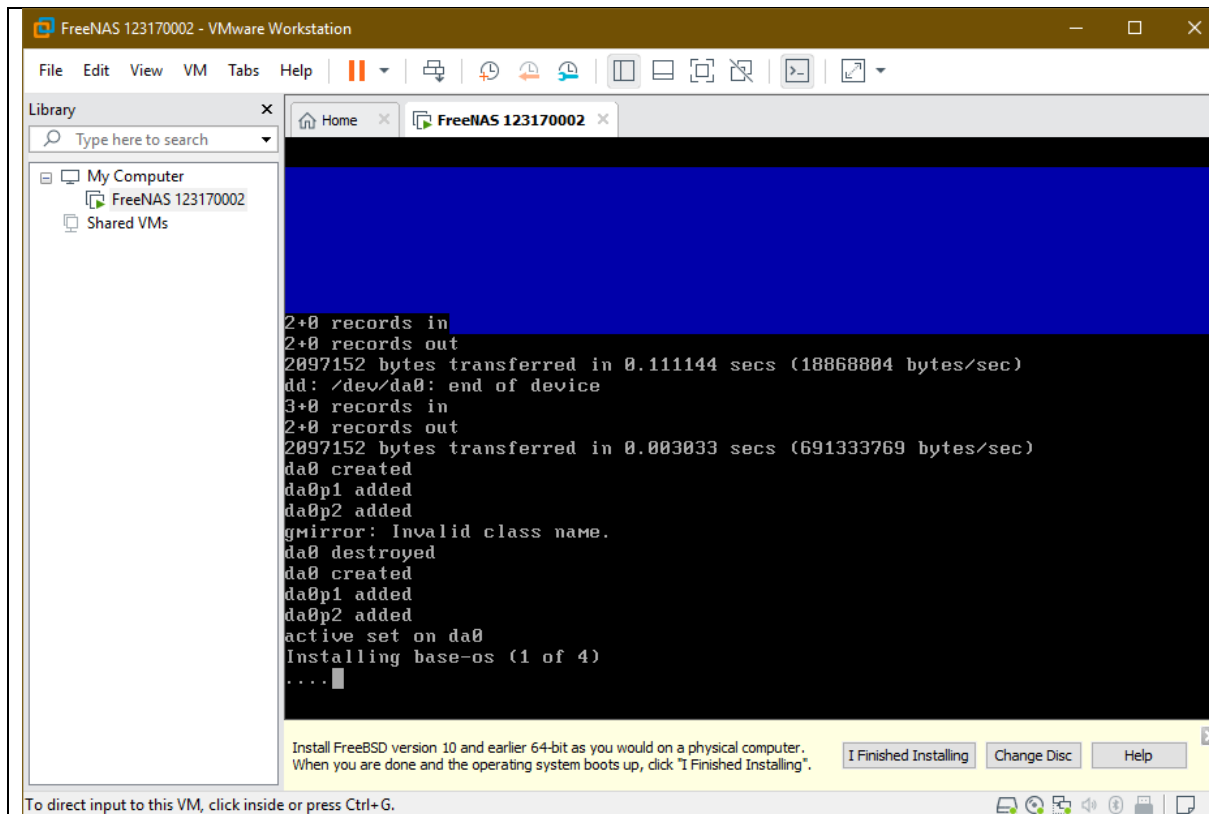
## 5. Tampilan pengaturan kata sandi, gunakan NIM atau bebas



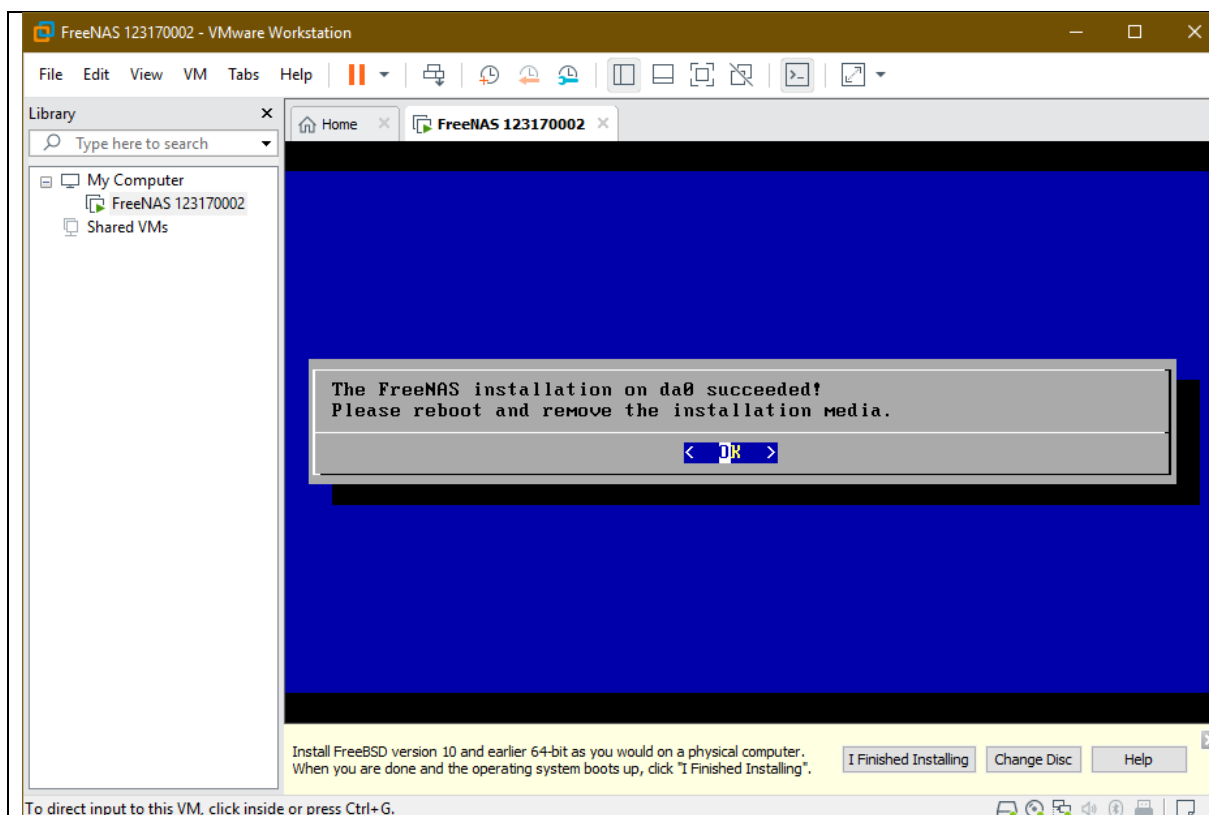
## 6. Tampilan mode boot dari FreeNAS, pilih BIOS

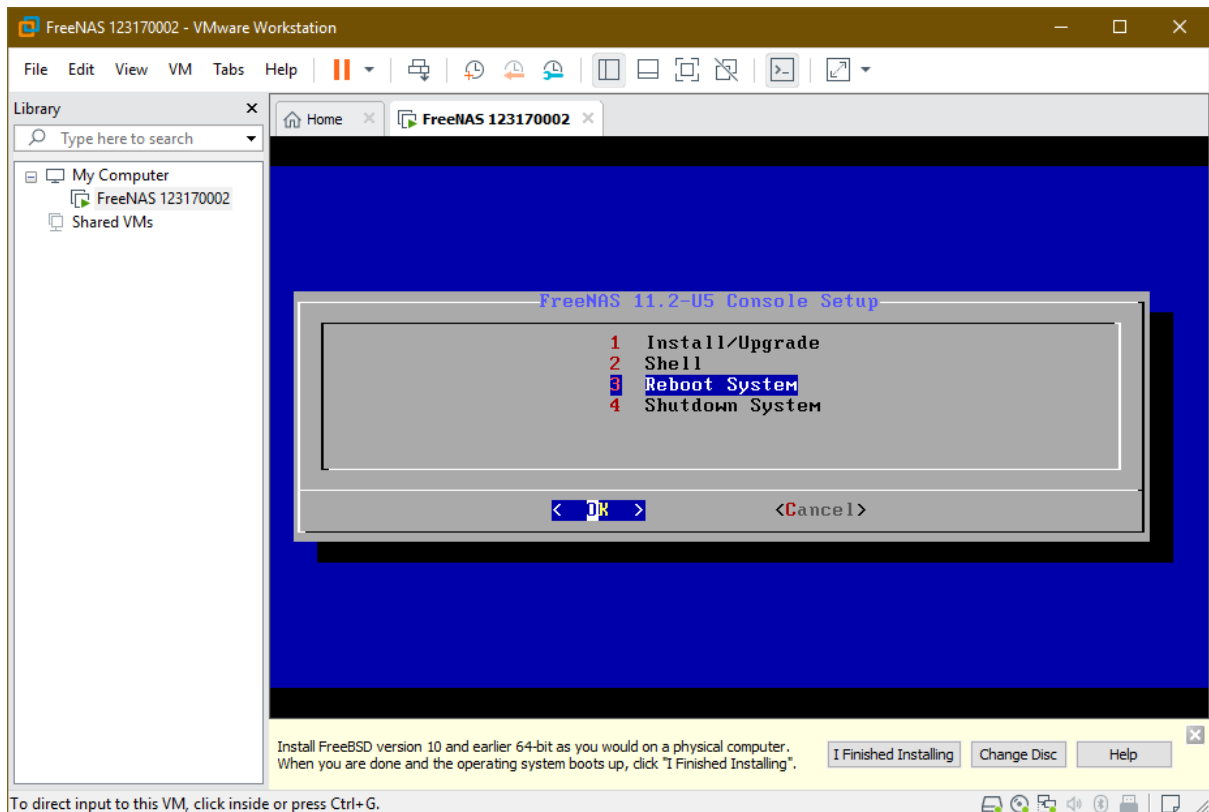


## 7. Tampilan proses instalasi FreeNAS

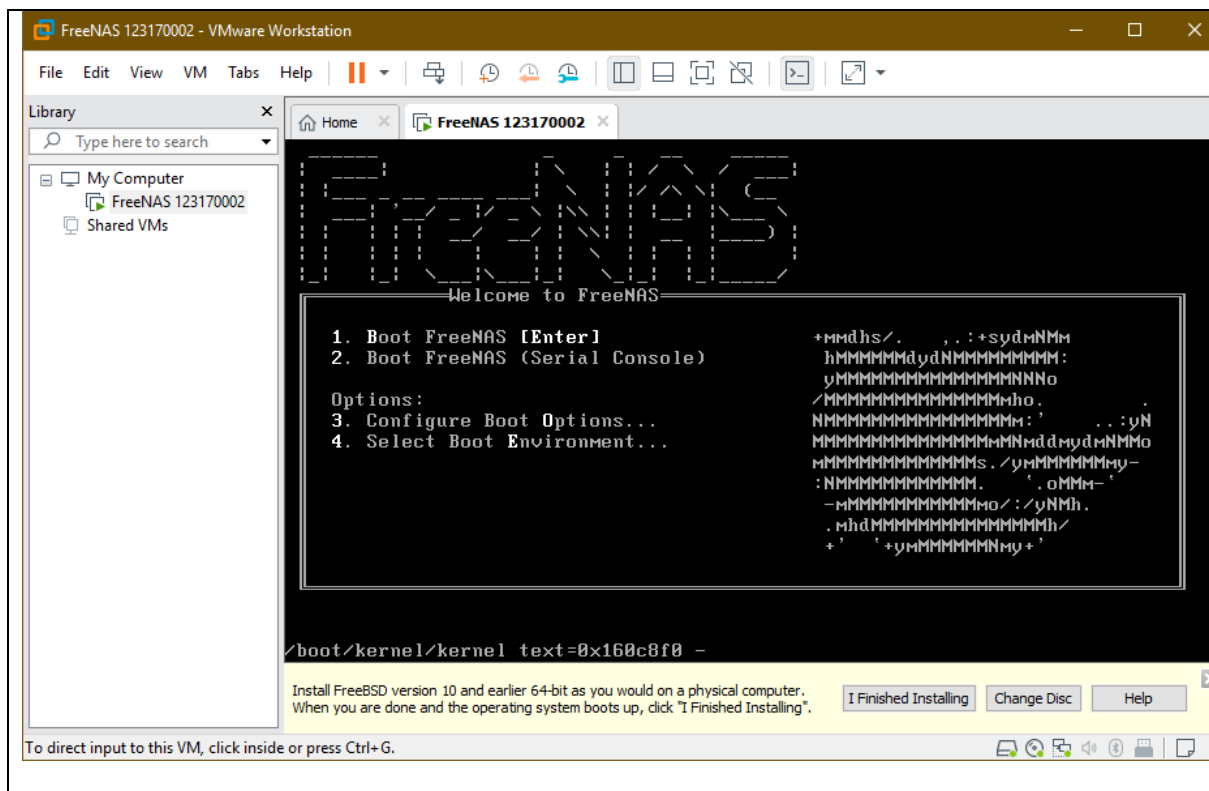


8. Tampilan hasil akhir proses instalasi FreeNAS, pilih OK kemudian pilih Reboot System

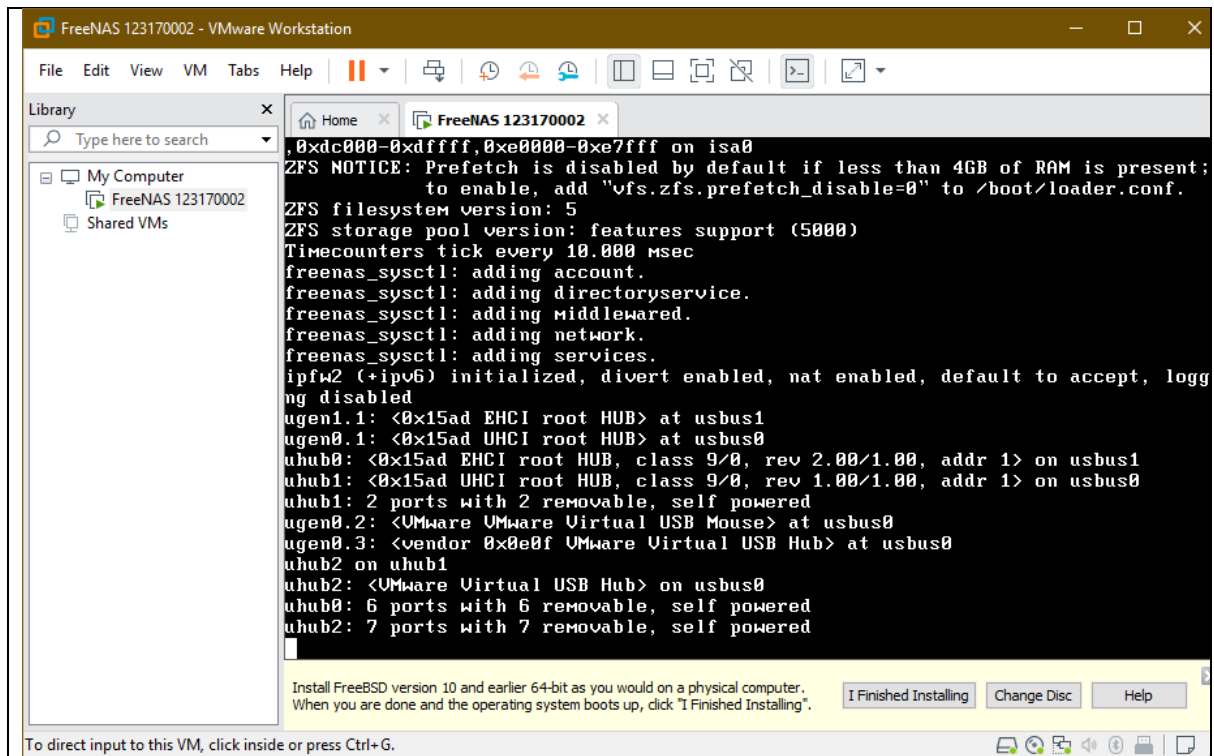




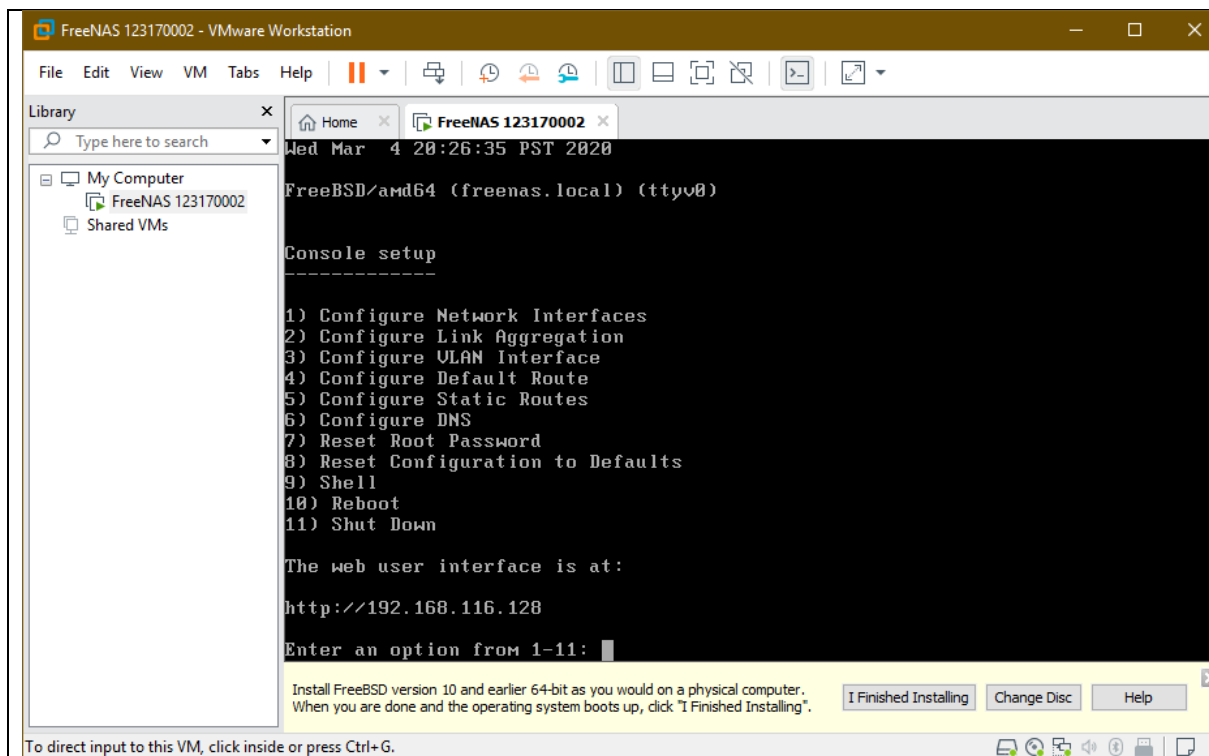
## 9. Tampilan proses booting menuju FreeNAS OS





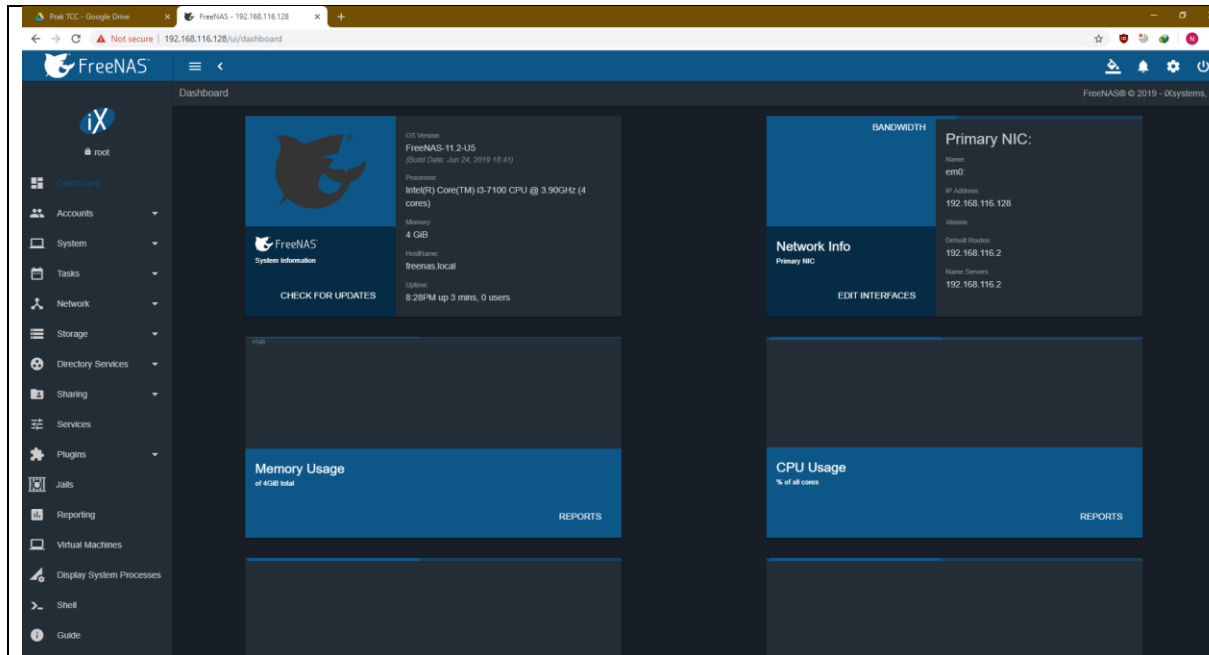


## 10. Tampilan hasil akhir booting yang menunjukkan Console Setup

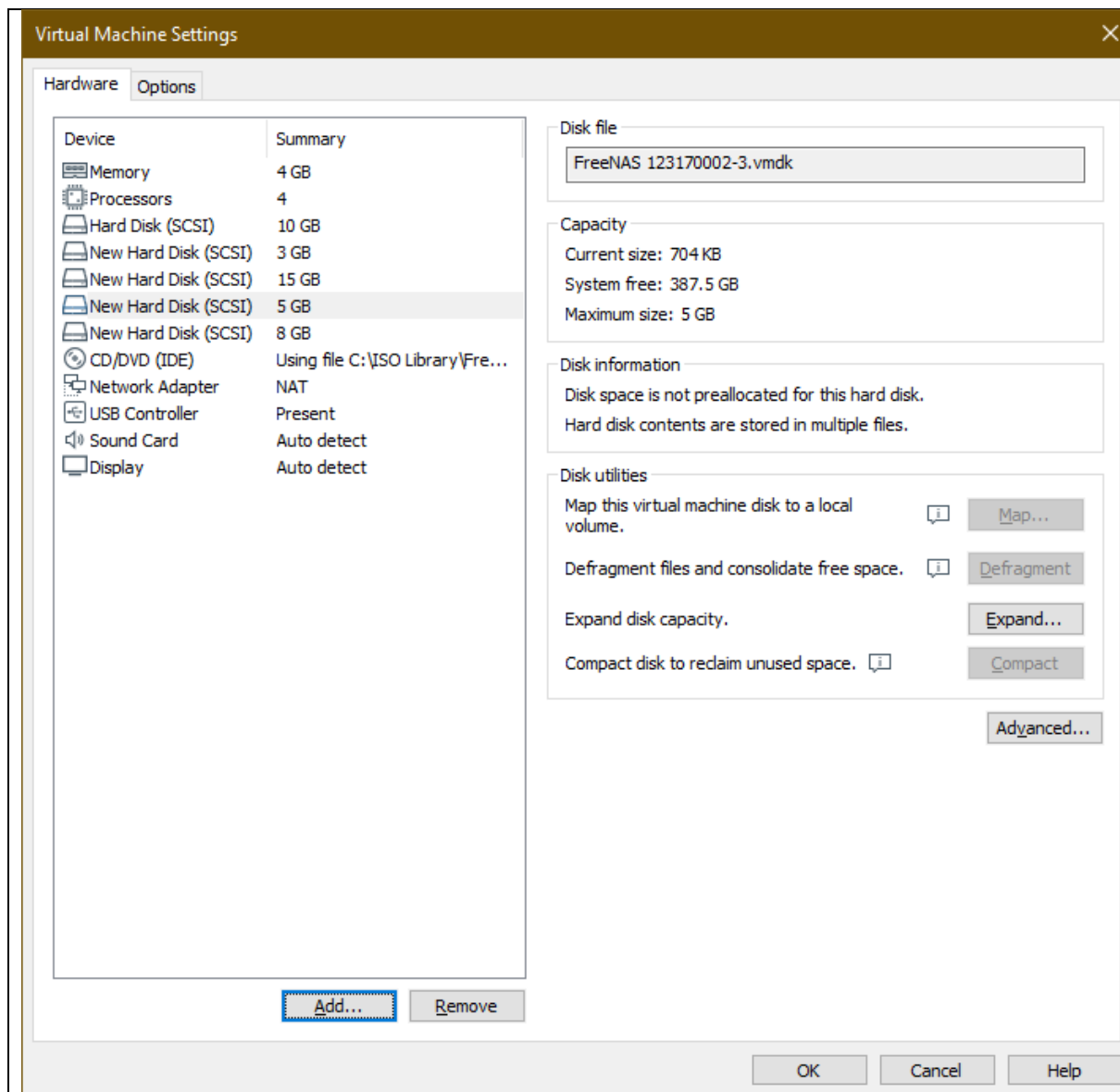


**TUGAS BAGIAN KETIGA – KONFIGURASI FREENAS:**

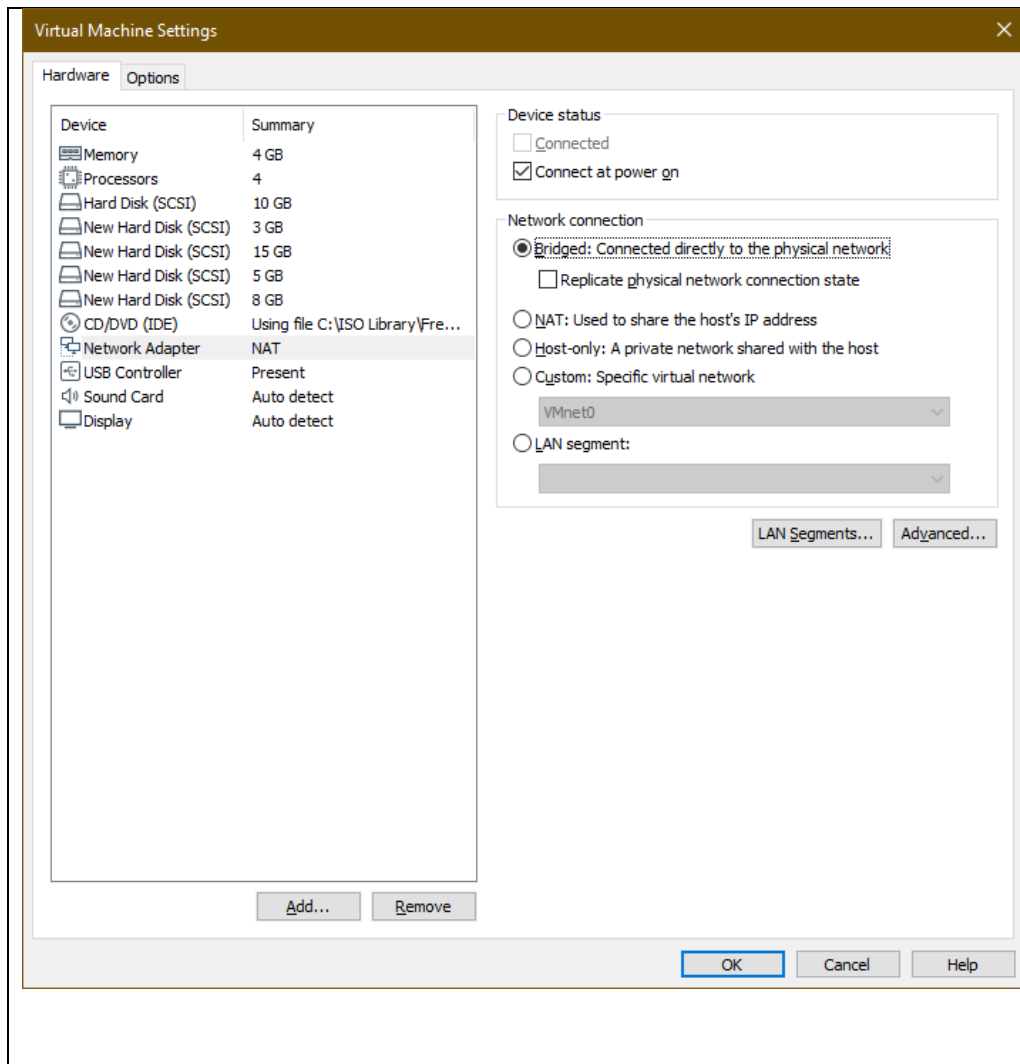
## 1. Tampilan dashboard setelah login FreeNAS

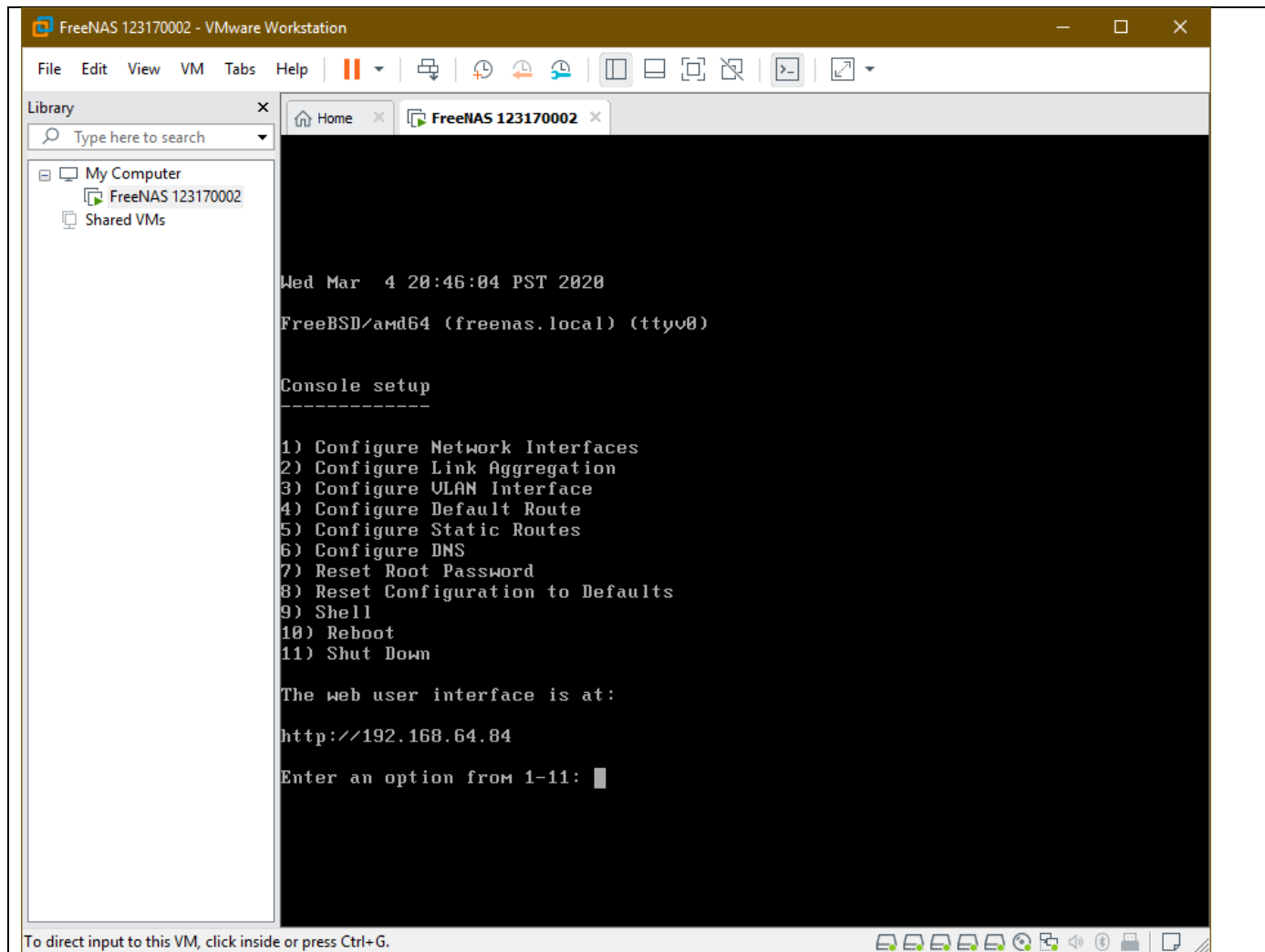


## 2. Tampilan konfigurasi VM pada Eksperimen #1

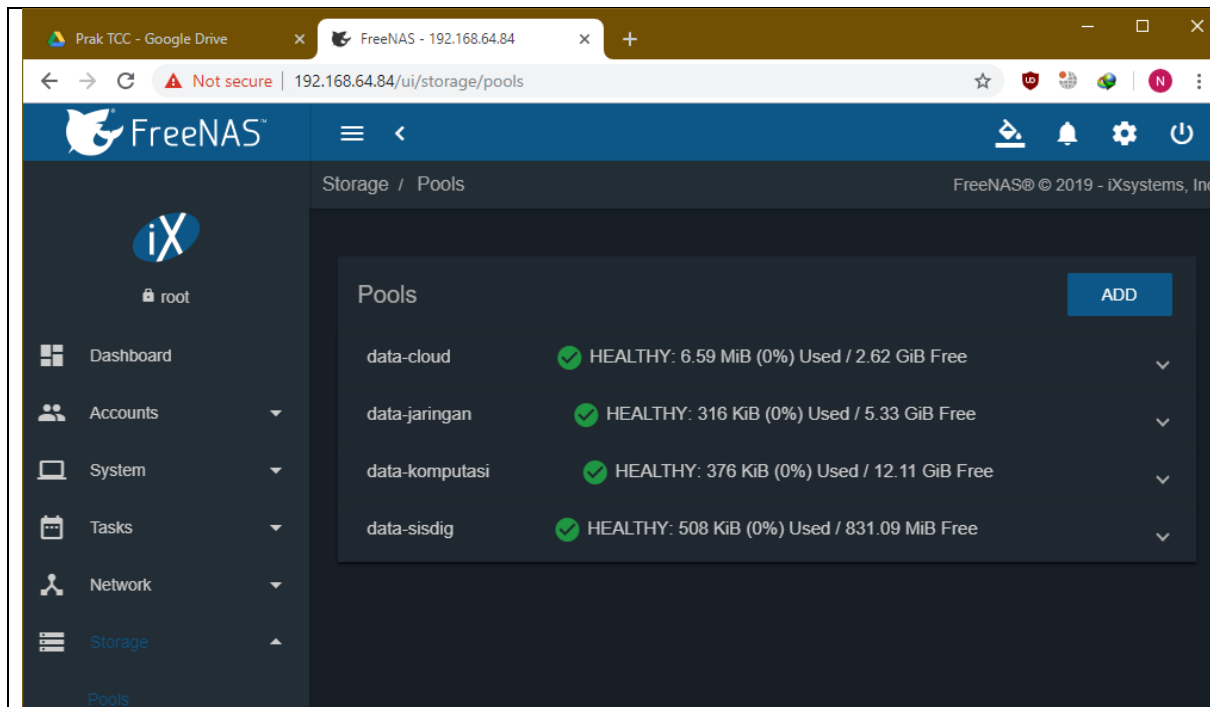


### 3. Tampilan IP pada dashboard Console Setup pada Eksperimen #2

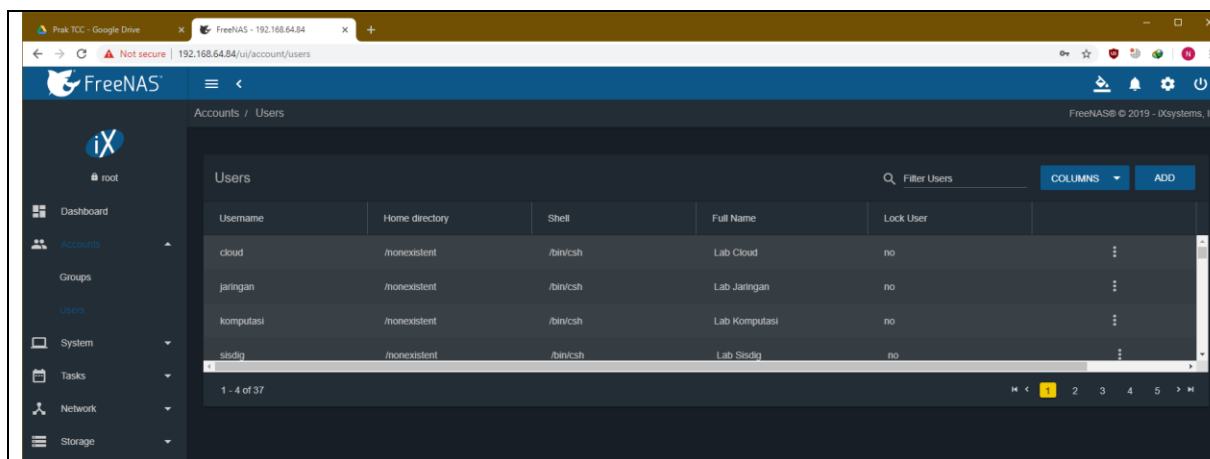




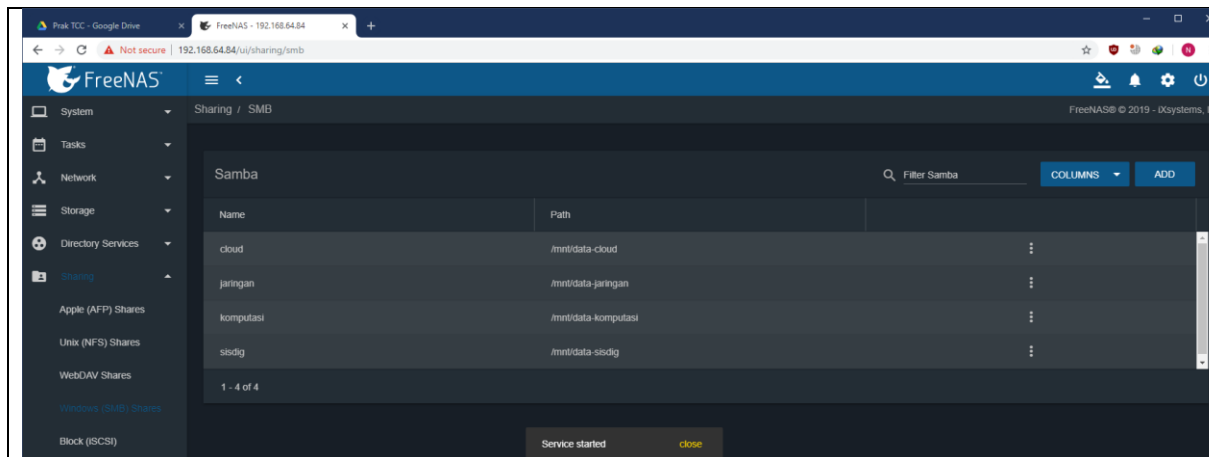
4. Tampilkan hasil dari pembuatan pools tambahan pada menu Storage -> Pools



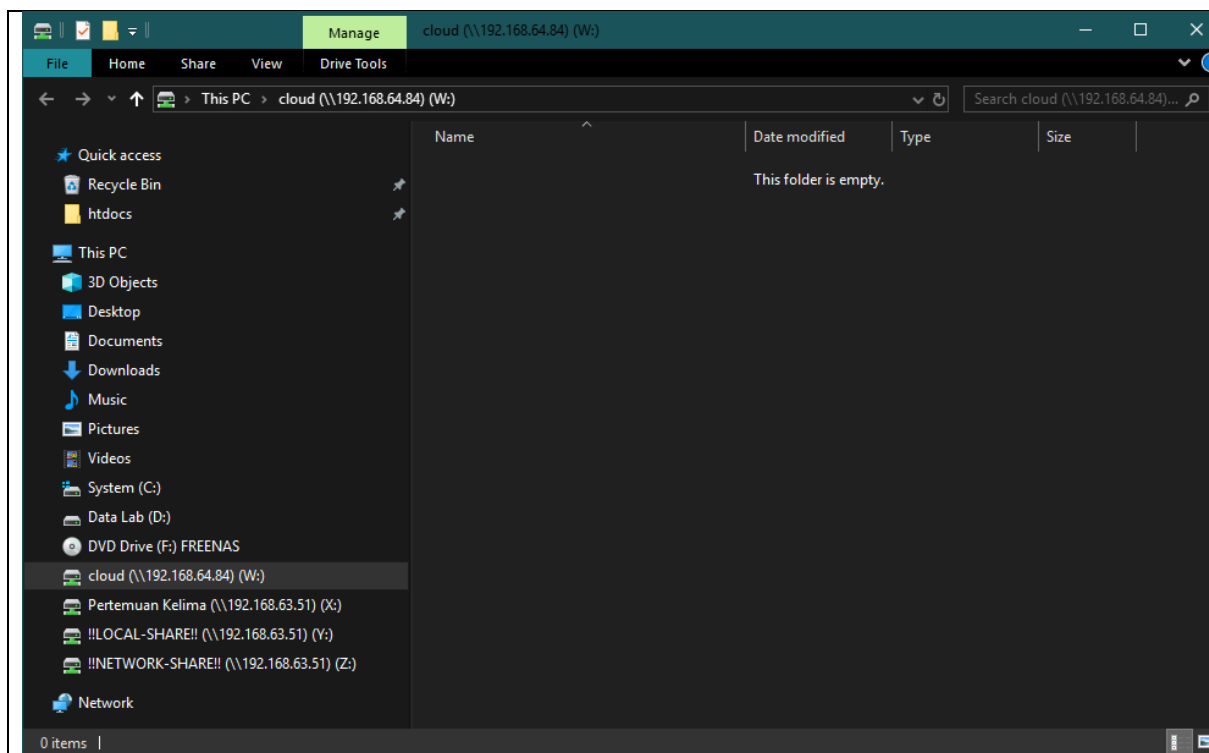
5. Tampilkan hasil dari pembuatan user tambahan pada menu Accounts -> Users



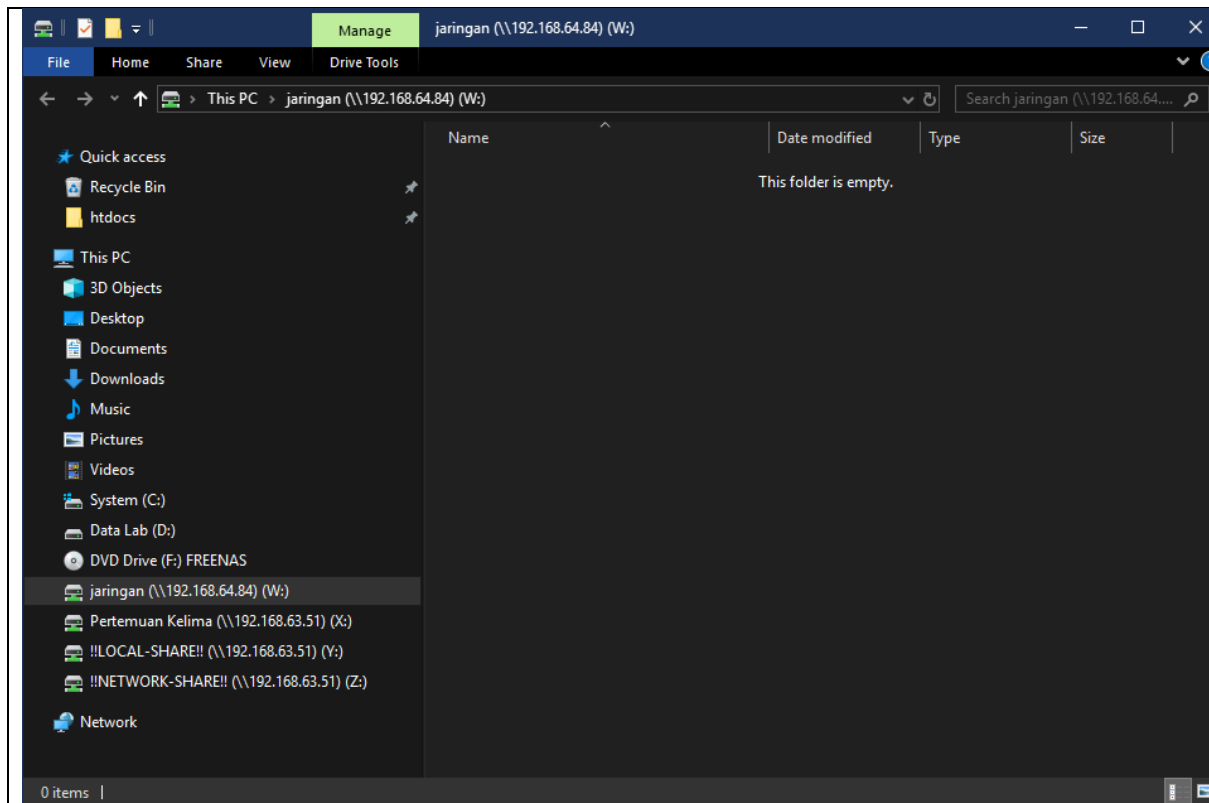
6. Tampilkan hasil dari pembuatan shares tambahan untuk 4 lab pada menu Sharing -> Windows (SMB) Shares



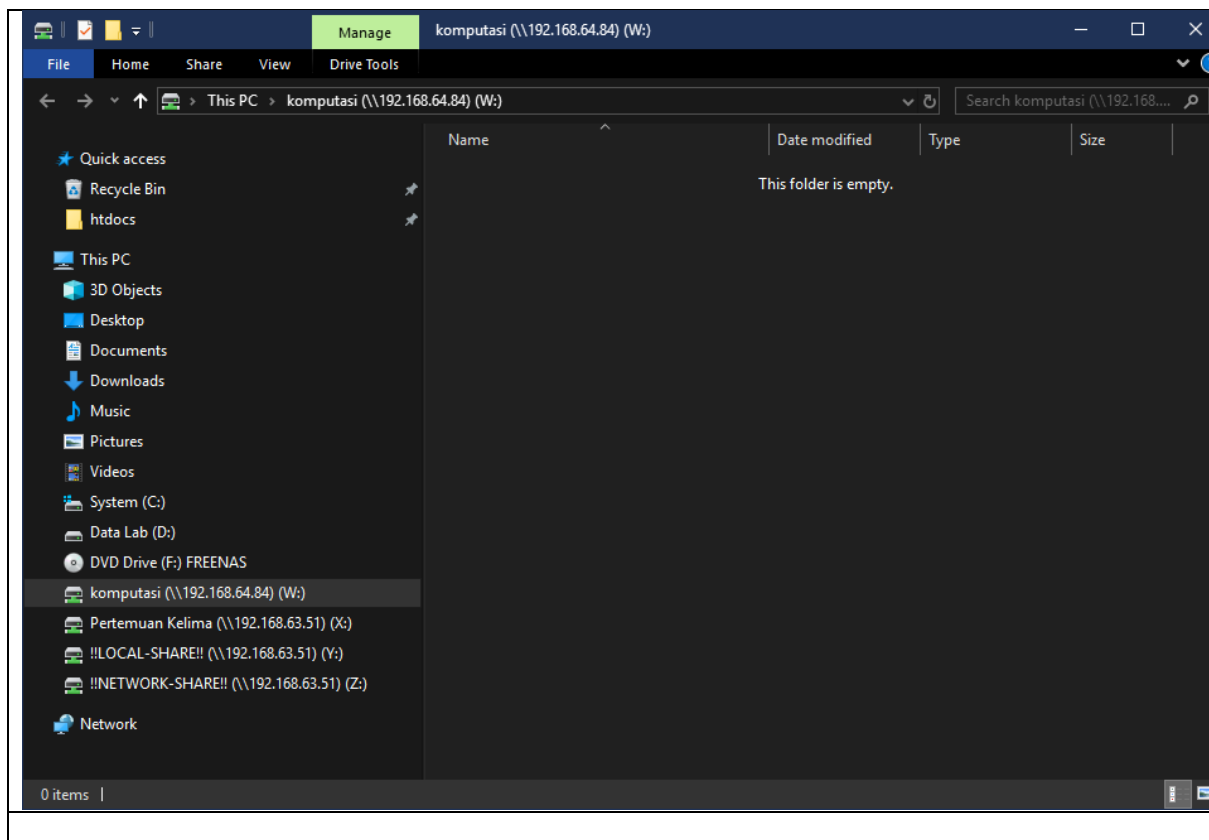
7. Tampilkan hasil akses shares pada Windows Explorer (hasil mapping) untuk Lab Cloud (yang pertama kali dibuat)



8. Tampilkan hasil akses shares untuk Lab Jaringan

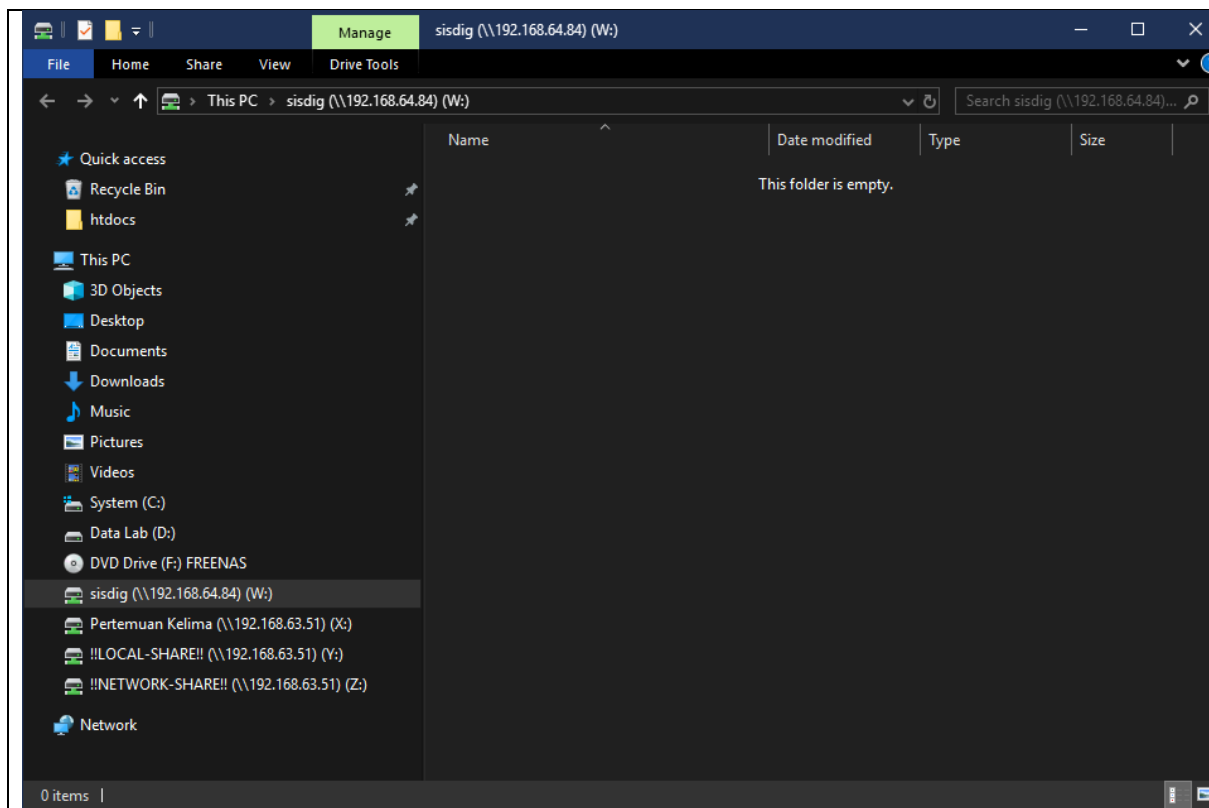


## 9. Tampilkan hasil akses shares untuk Lab Komputasi





## 10. Tampilkan hasil akses shares untuk Lab Sisdig



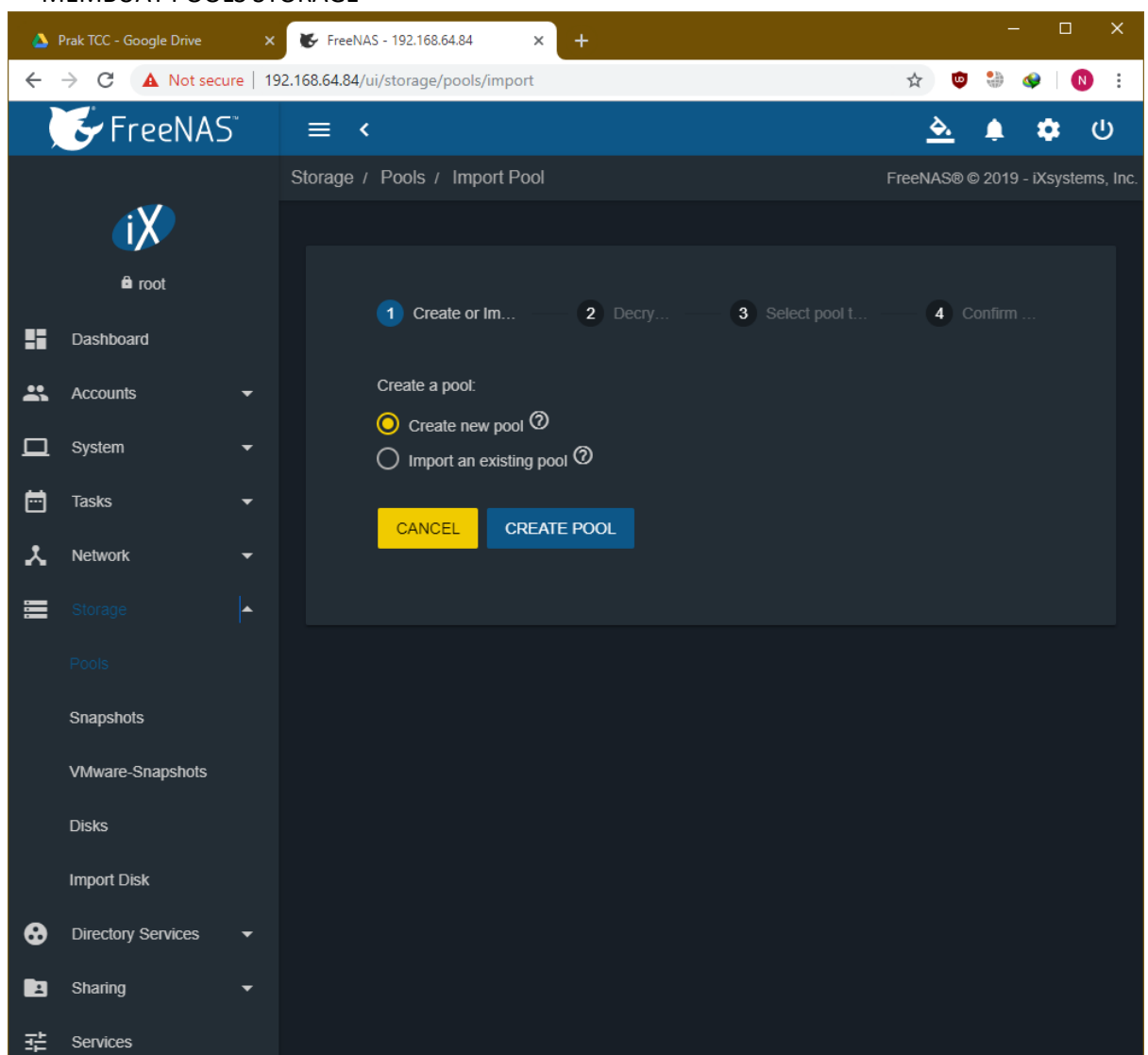
**DOKUMENTASI PERTEMUAN KELIMA (BILA ADA)**

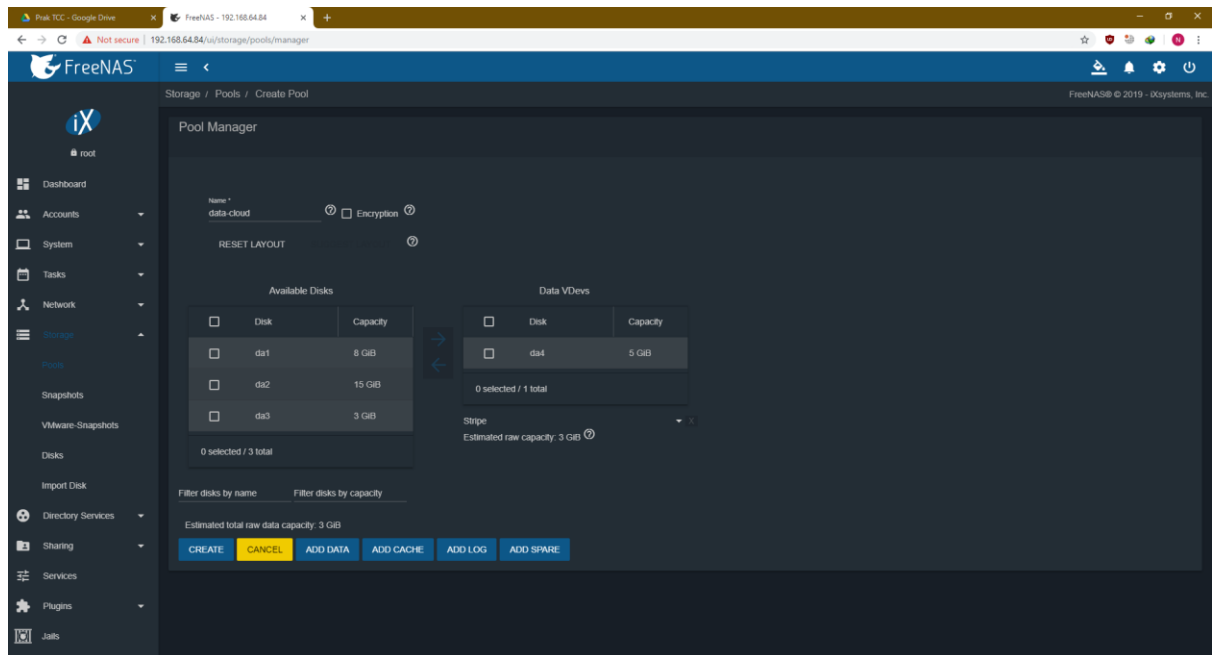
## ➤ PENDAHULUAN NAS

Media penyimpanan dari segi file-level dengan konsep terpusat (server) yang terhubung ke suatu jaringan yang dapat diakses oleh pengguna tertentu.

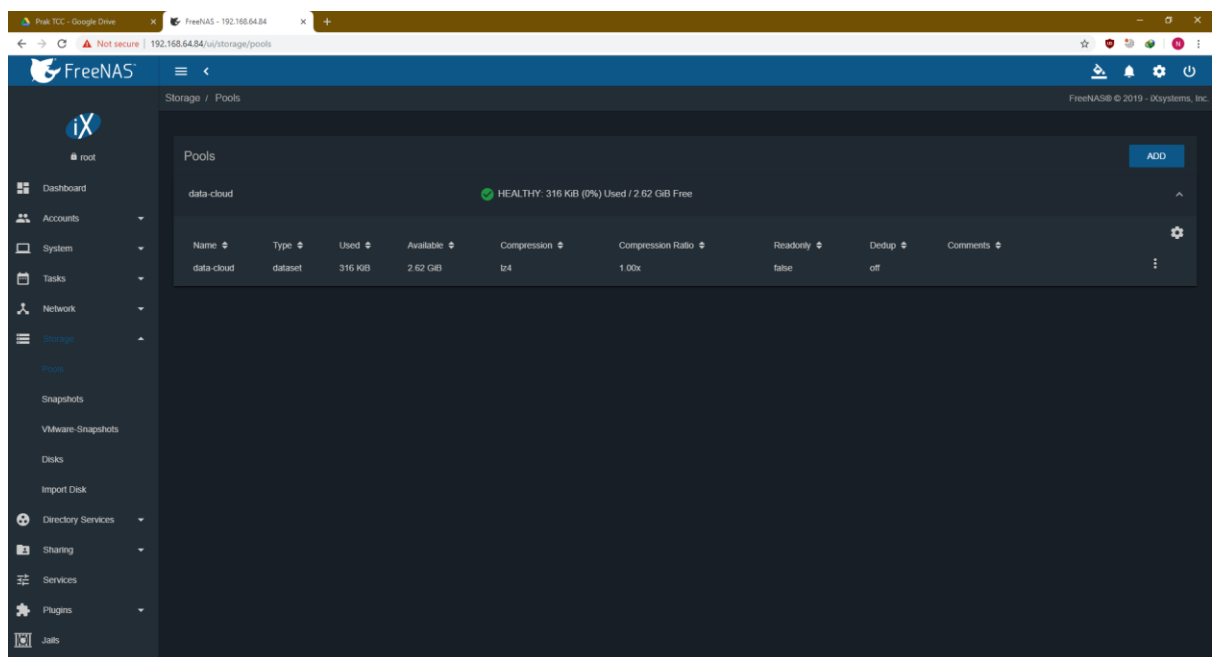
## ➤ PEMBUATAN VM DAN INSTALASI FREENAS OS

- Format hardisk
- Buat akun user
- Buat sharingnya

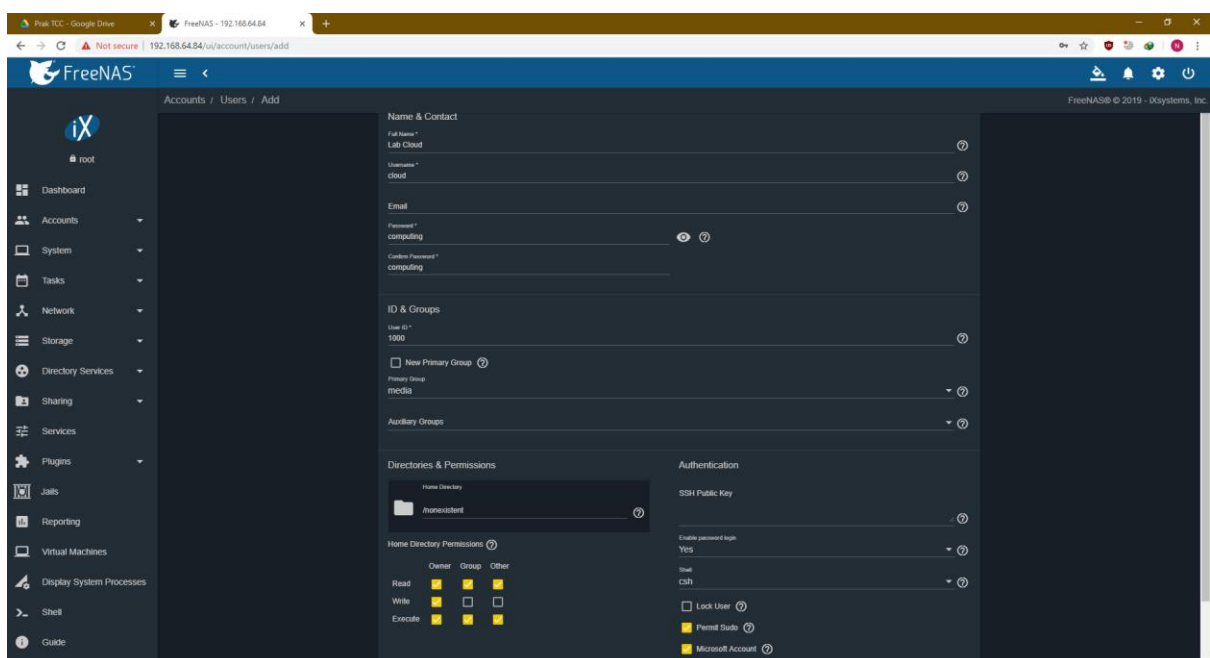
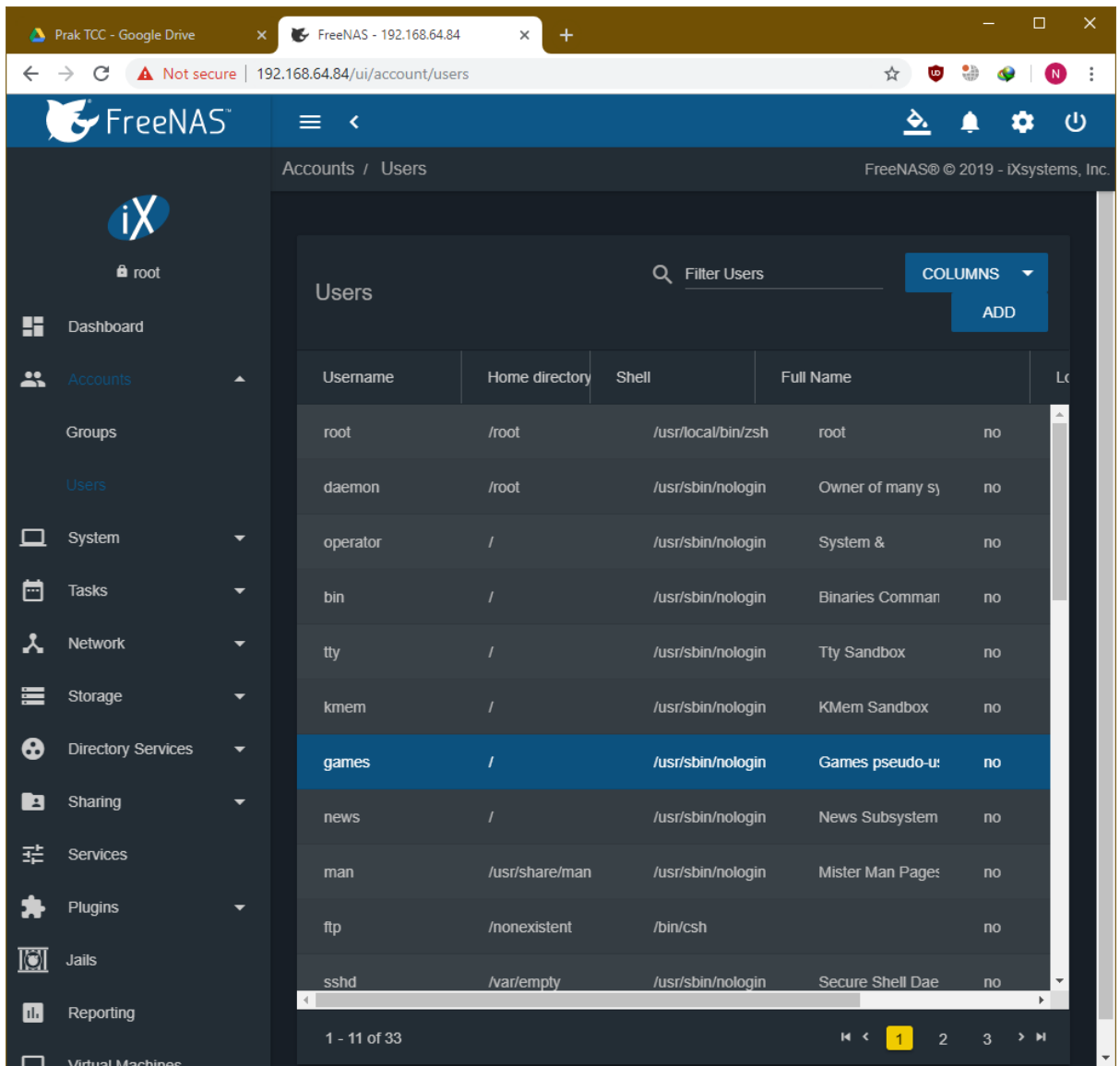
**\*\* MEMBUAT POOLS STORAGE**



Kemudian klik create



- MEMBUAT USER ACCOUNT
- PILIH ACCOUNTS-USERS-ADD



Kemudian di save