



## **LEMBAR KERJA PRAKTIKUM CLOUD COMPUTING**

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

#### **IDENTITAS:**

Nama:	<b>Rahmat Zumarli</b>
NIM:	<b>123170011</b>
Kelas:	<b>E</b>
Hari, Tanggal:	<b>04-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
```

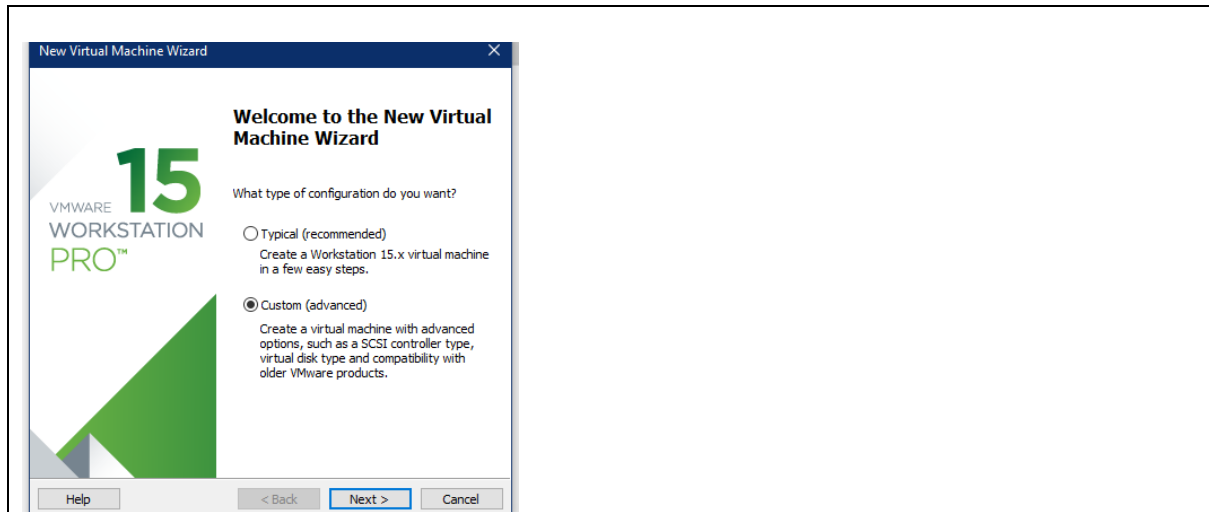
Perintah exit digunakan untuk keluar dari sesi akun aktif

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

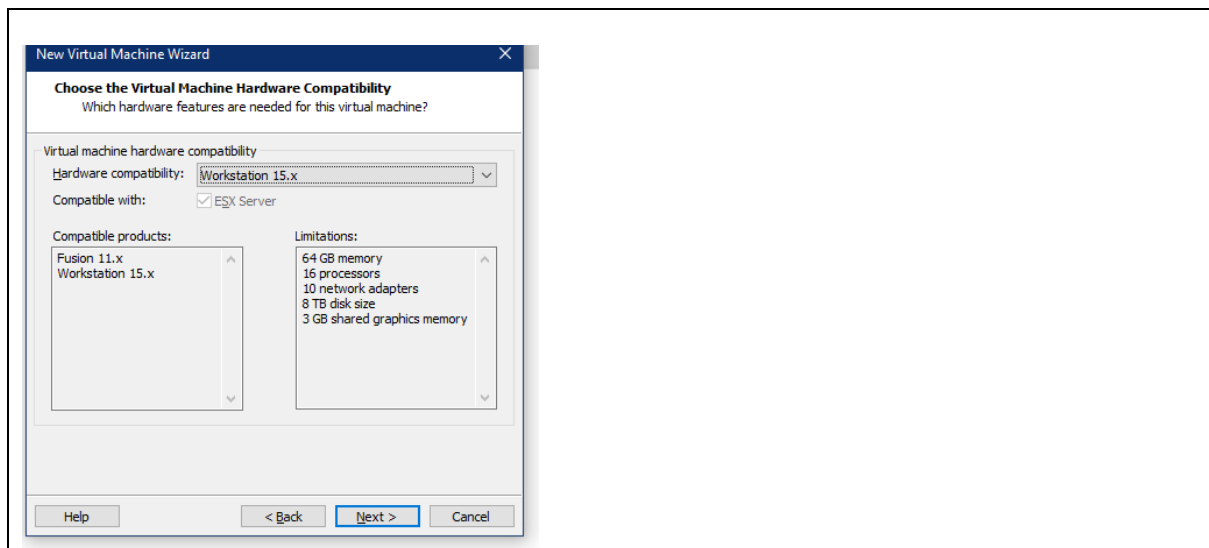


**TUGAS BAGIAN PERTAMA – PEMBUATAN VM:**

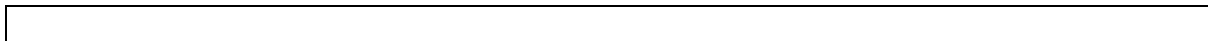
1. Gunakan opsi konfigurasi Custom

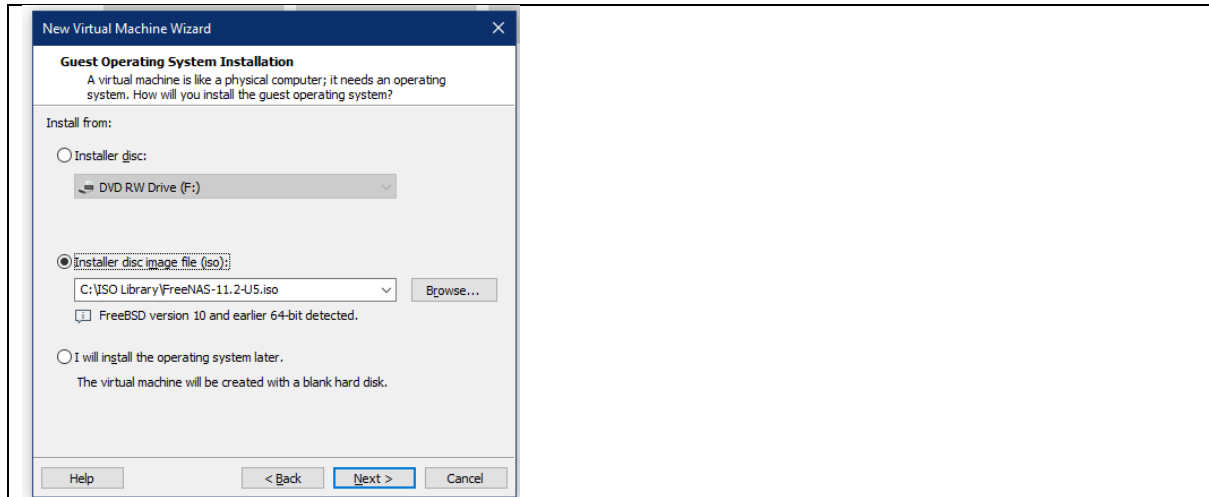


2. Gunakan compatibility Workstation 15.X

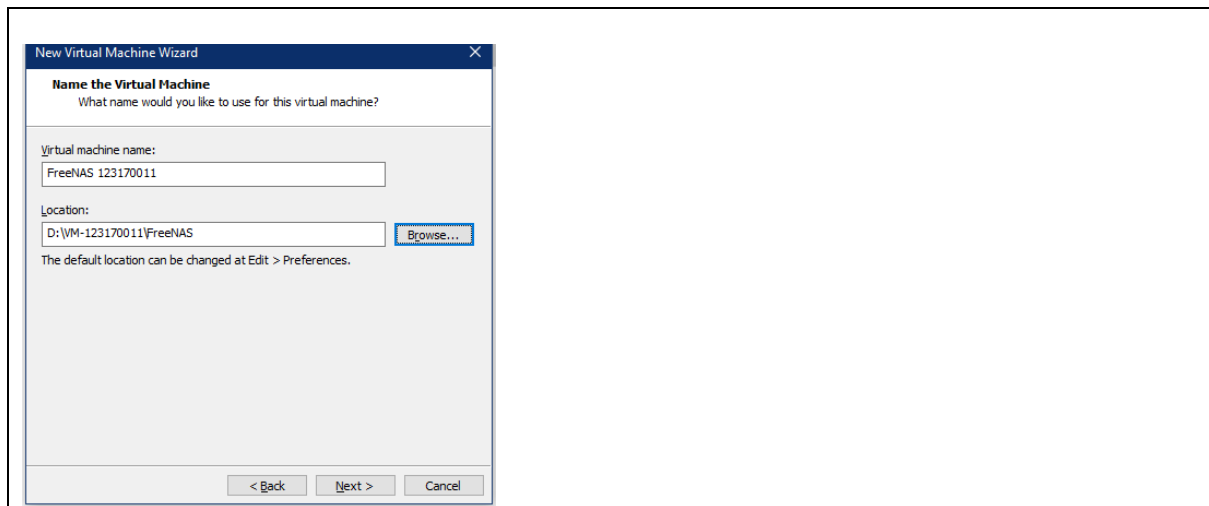


3. Gunakan ISO FreeNAS-11.2-U5 di folder ISO Library

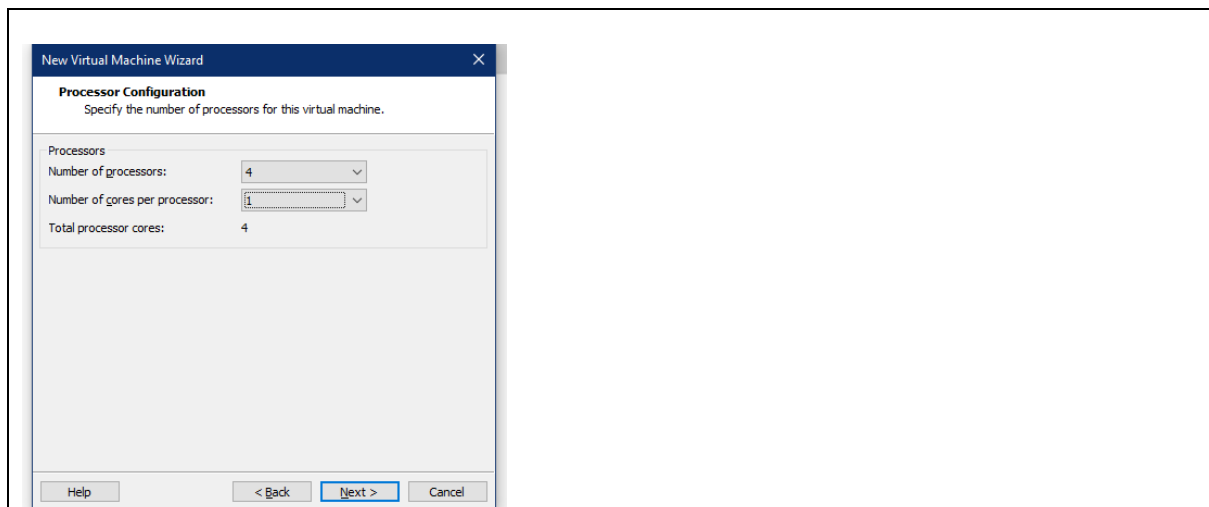




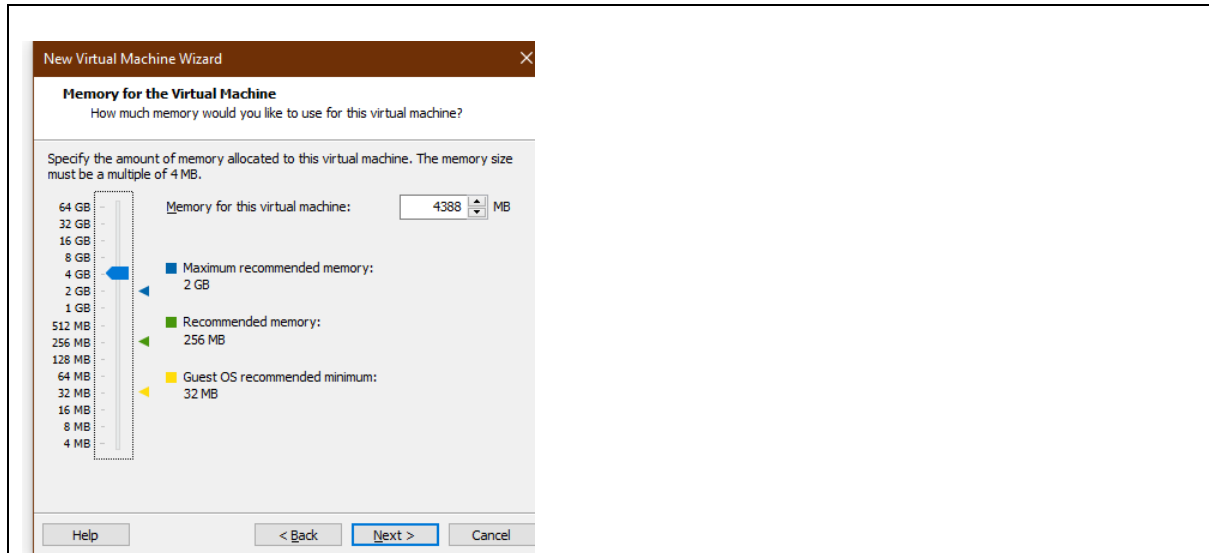
#### 4. Format nama VM: **FreeNAS NIM** dan buat folder **FreeNAS** di dalam **VM-NIM**



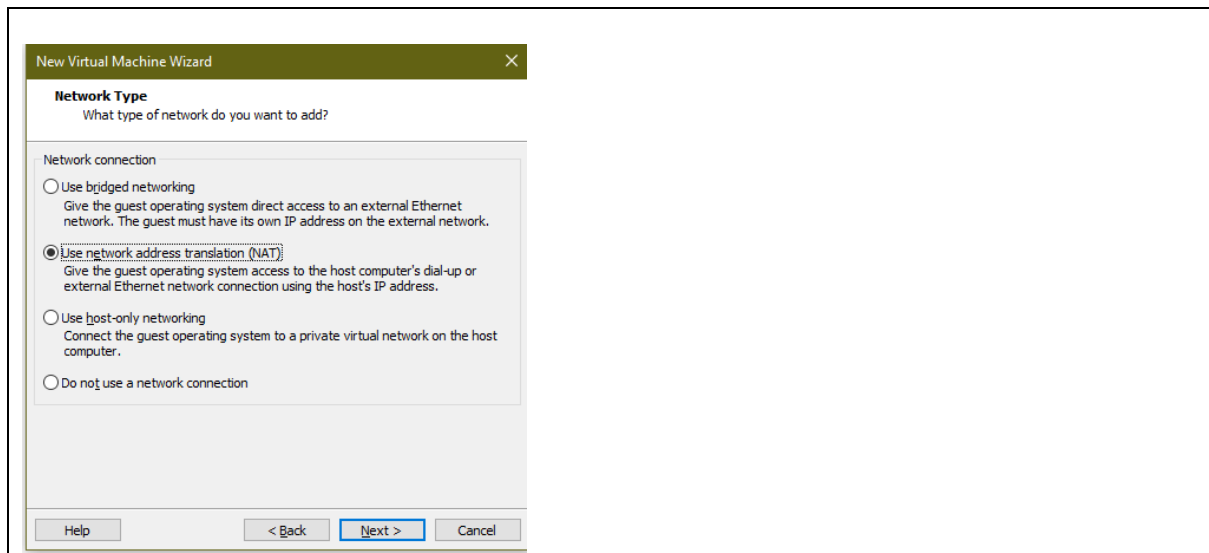
#### 5. Gunakan 4 processor dan 1 core



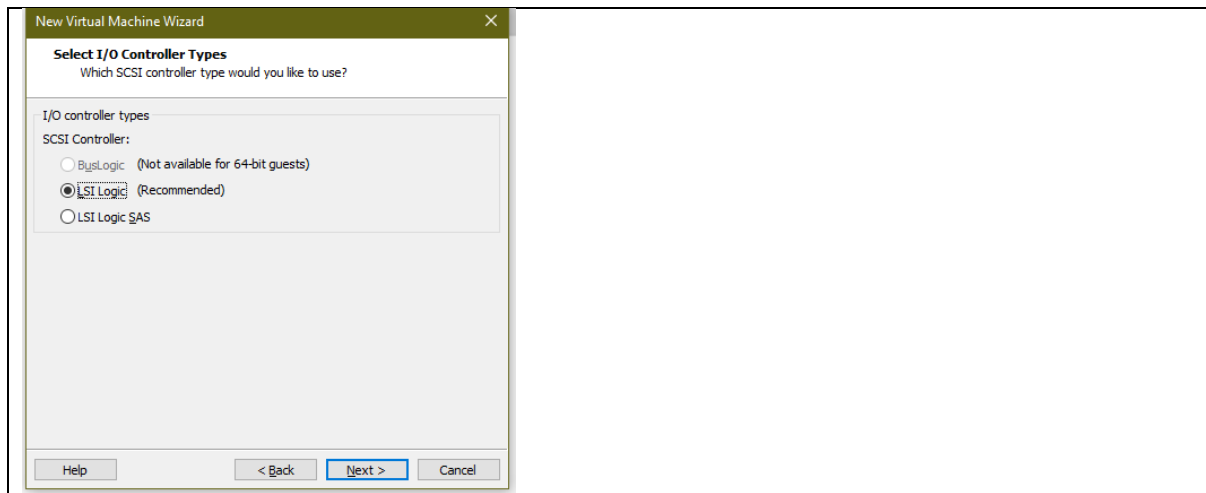
#### 6. Gunakan RAM sebesar 4 GB



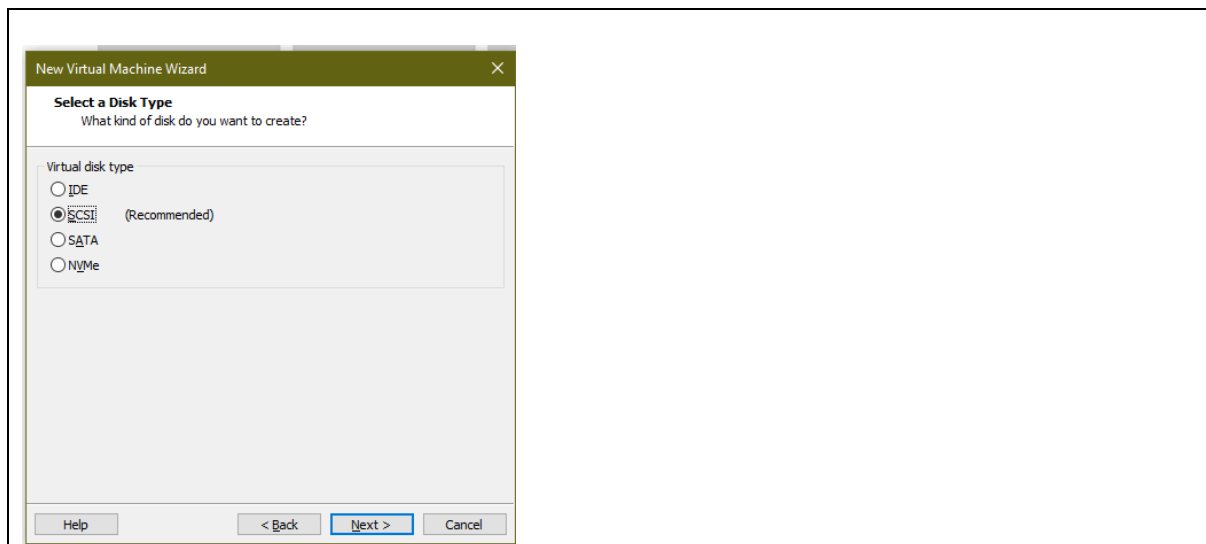
## 7. Gunakan mode jaringan NAT



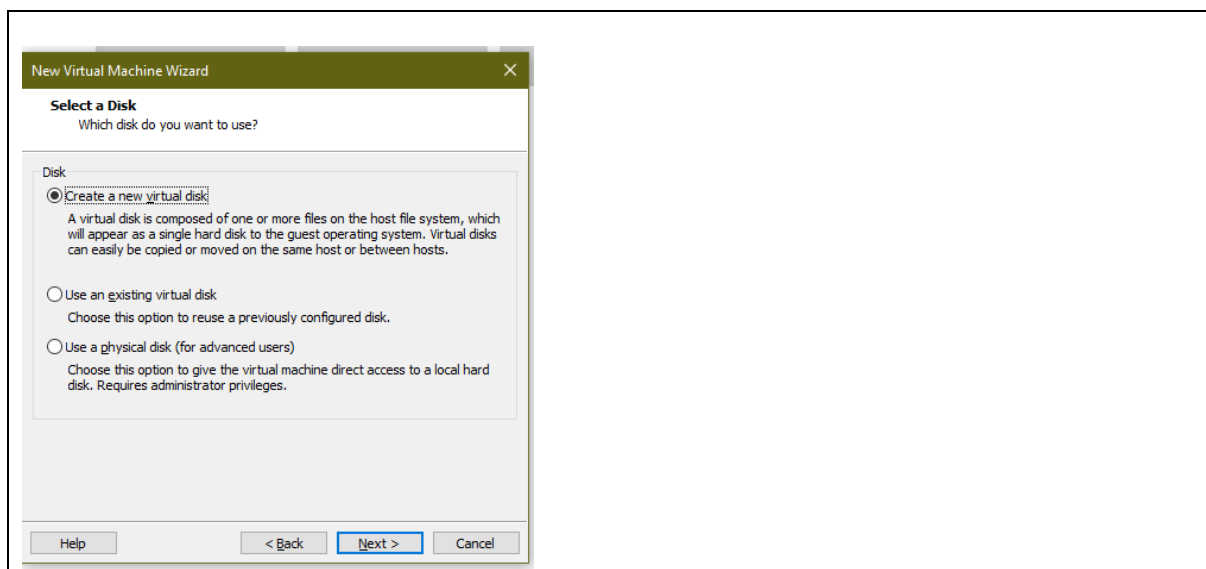
## 8. Gunakan pengaturan default I/O Controller



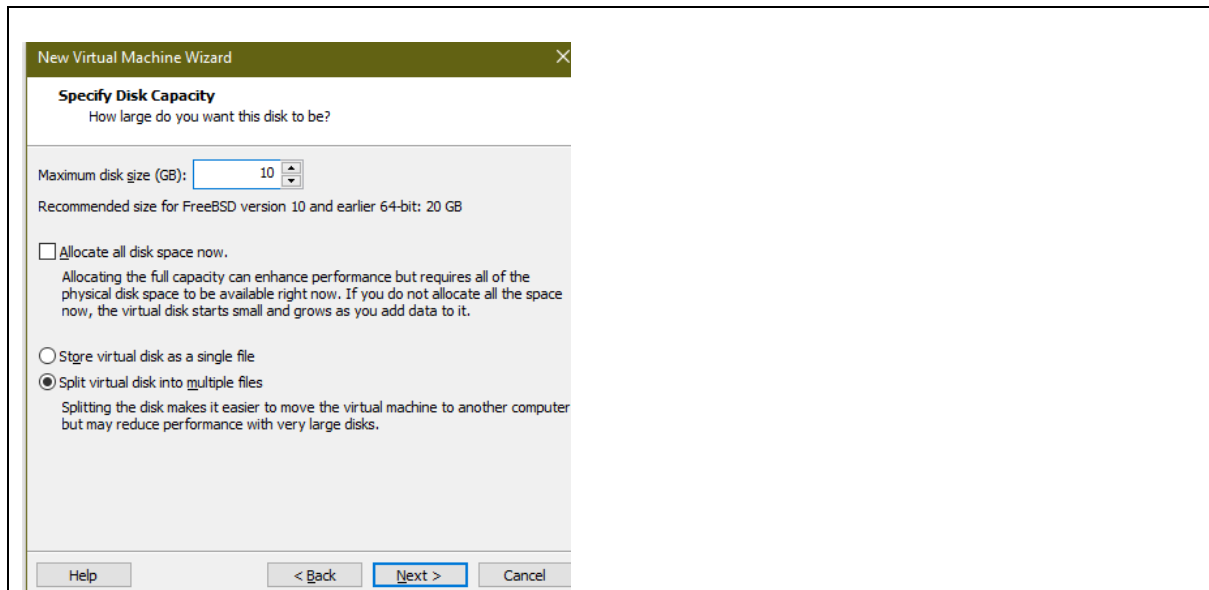
## 9. Gunakan pengaturan default Virtual Disk Type



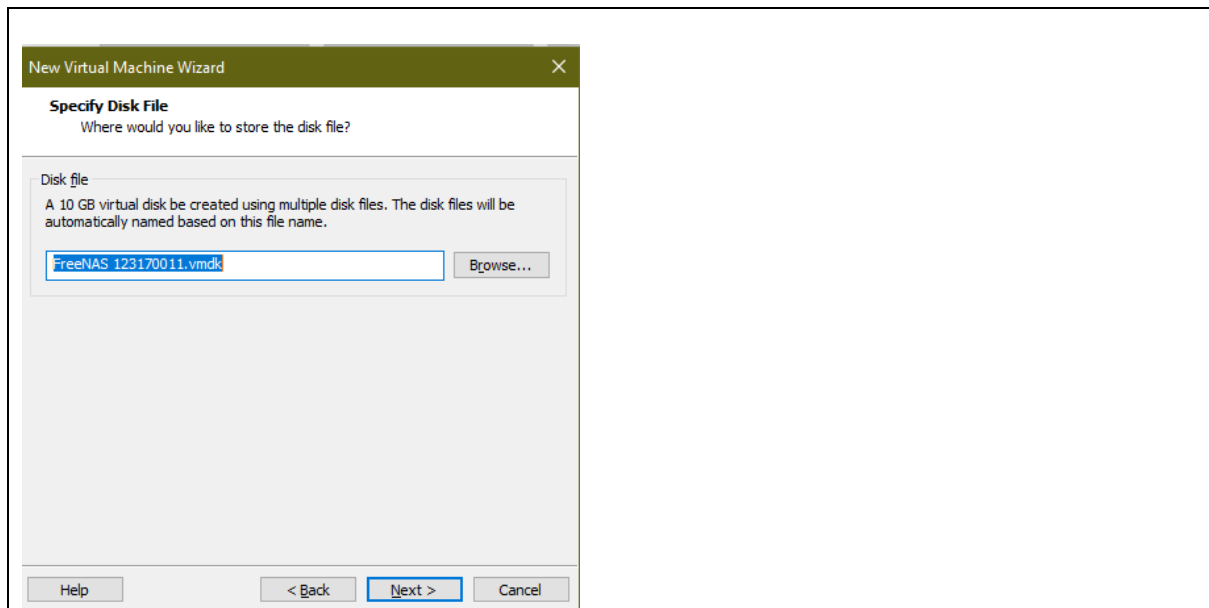
## 10. Pilih opsi buat virtual disk baru



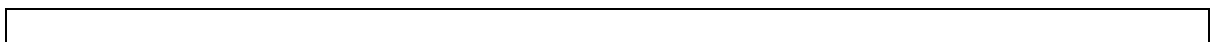
11. Buat disk untuk sistem sebesar 10 GB dengan mode Split dan hilangkan checklist allocate disk

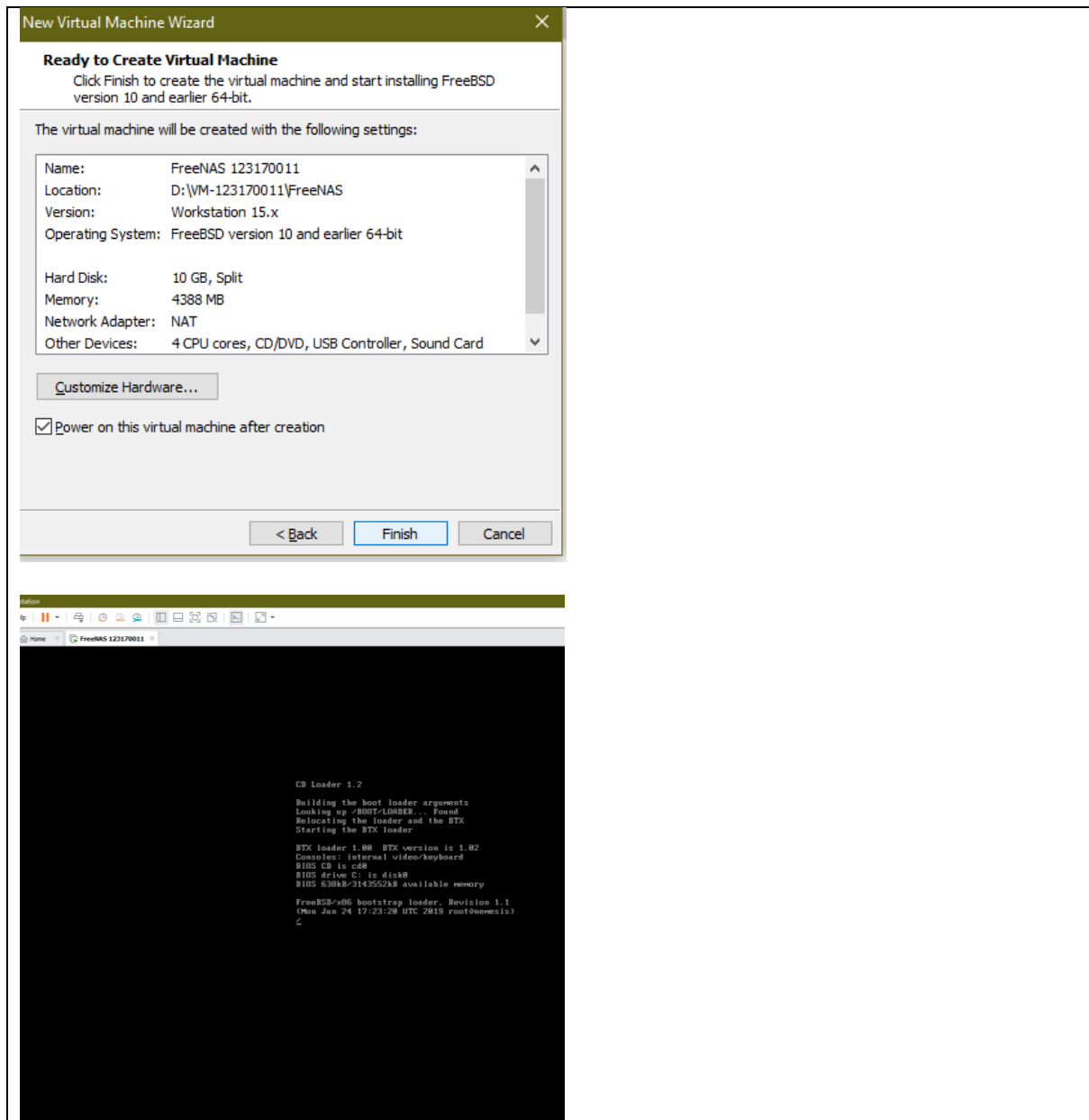


12. Gunakan pengaturan default untuk nama disk



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

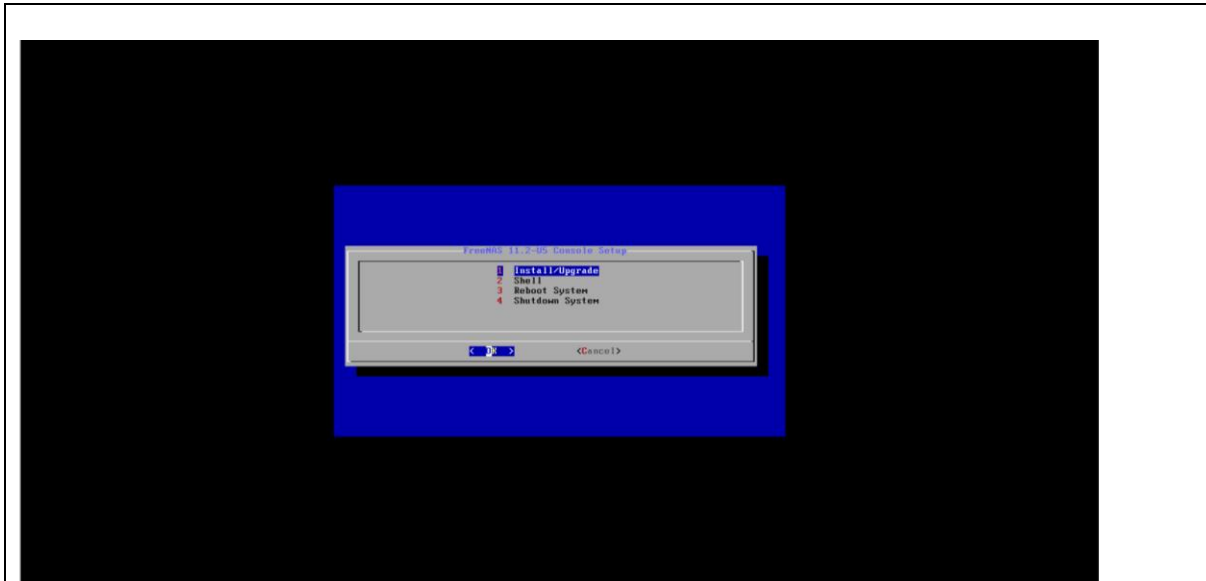




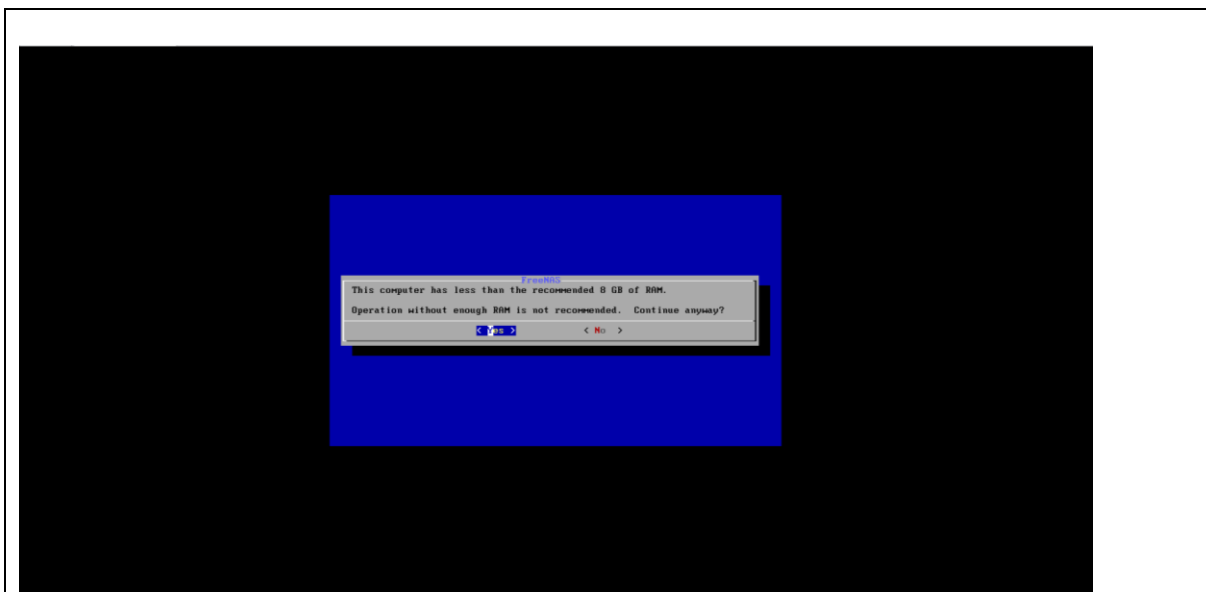


## **TUGAS BAGIAN KEDUA – INSTALASI FREENAS:**

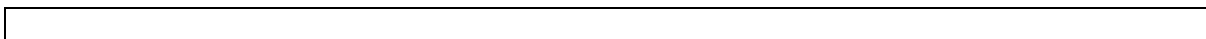
1. Tampilan awal tahap instalasi FreeNAS, pilih Install/Upgrade

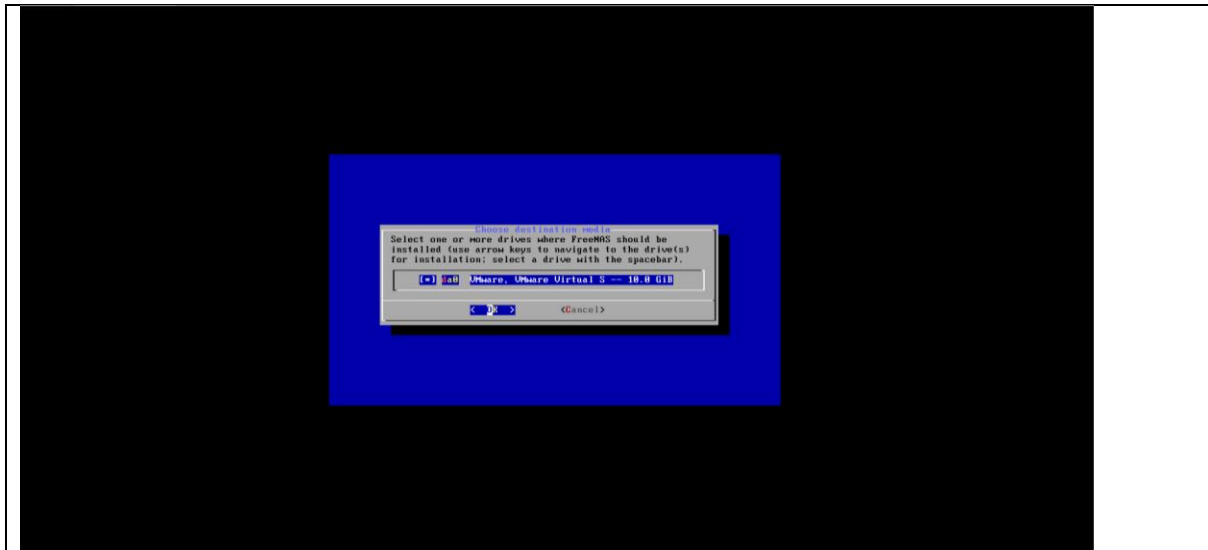


2. Tampilan warning RAM kurang dari 8GB, pilih Yes

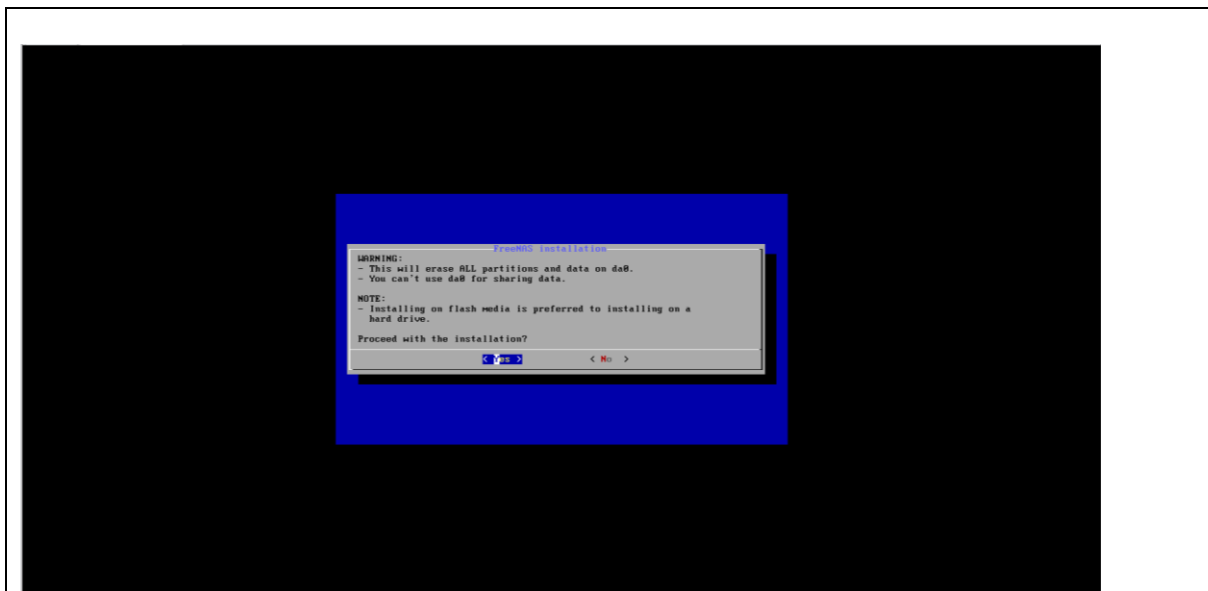


3. Tampilan pemilihan destination media untuk dipasang FreeNAS, pilih da0

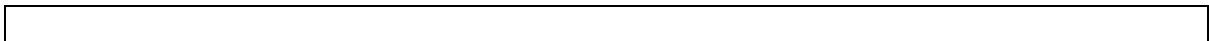


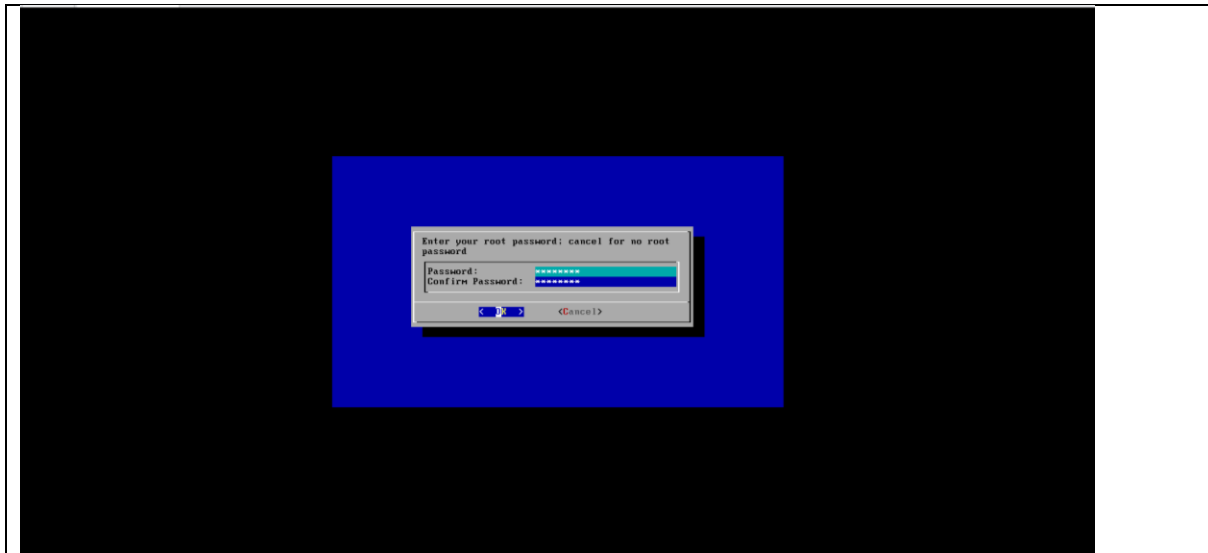


4. Tampilan konfirmasi penghapusan/format media yang terpilih, pilih Yes

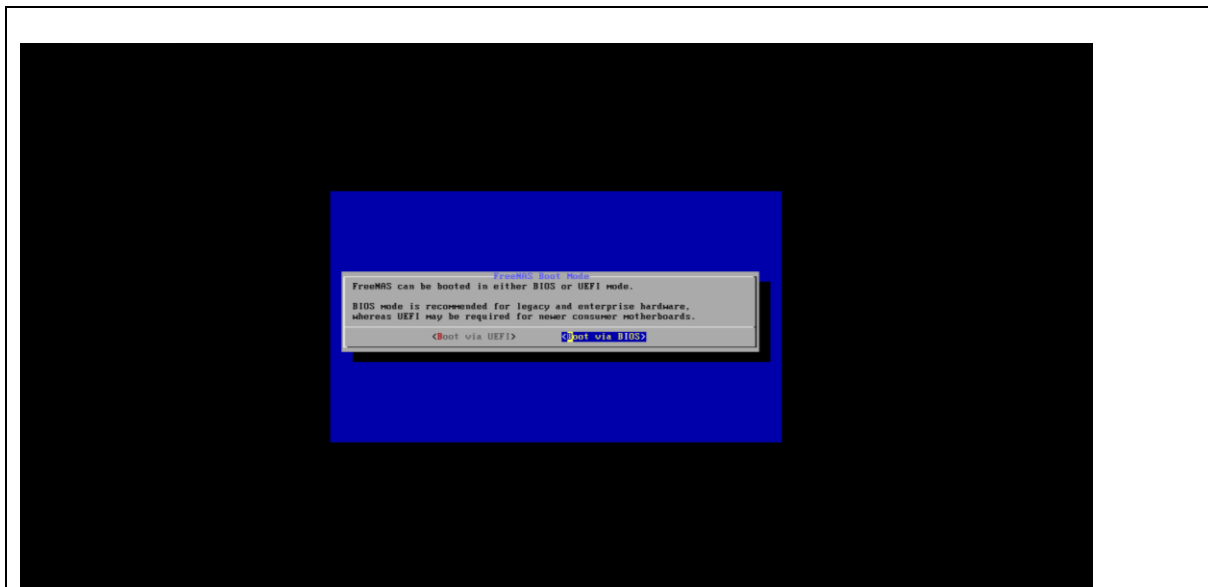


5. Tampilan pengaturan kata sandi, gunakan NIM atau bebas

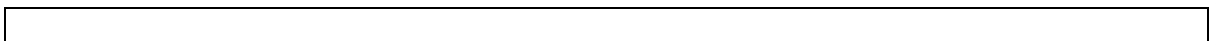


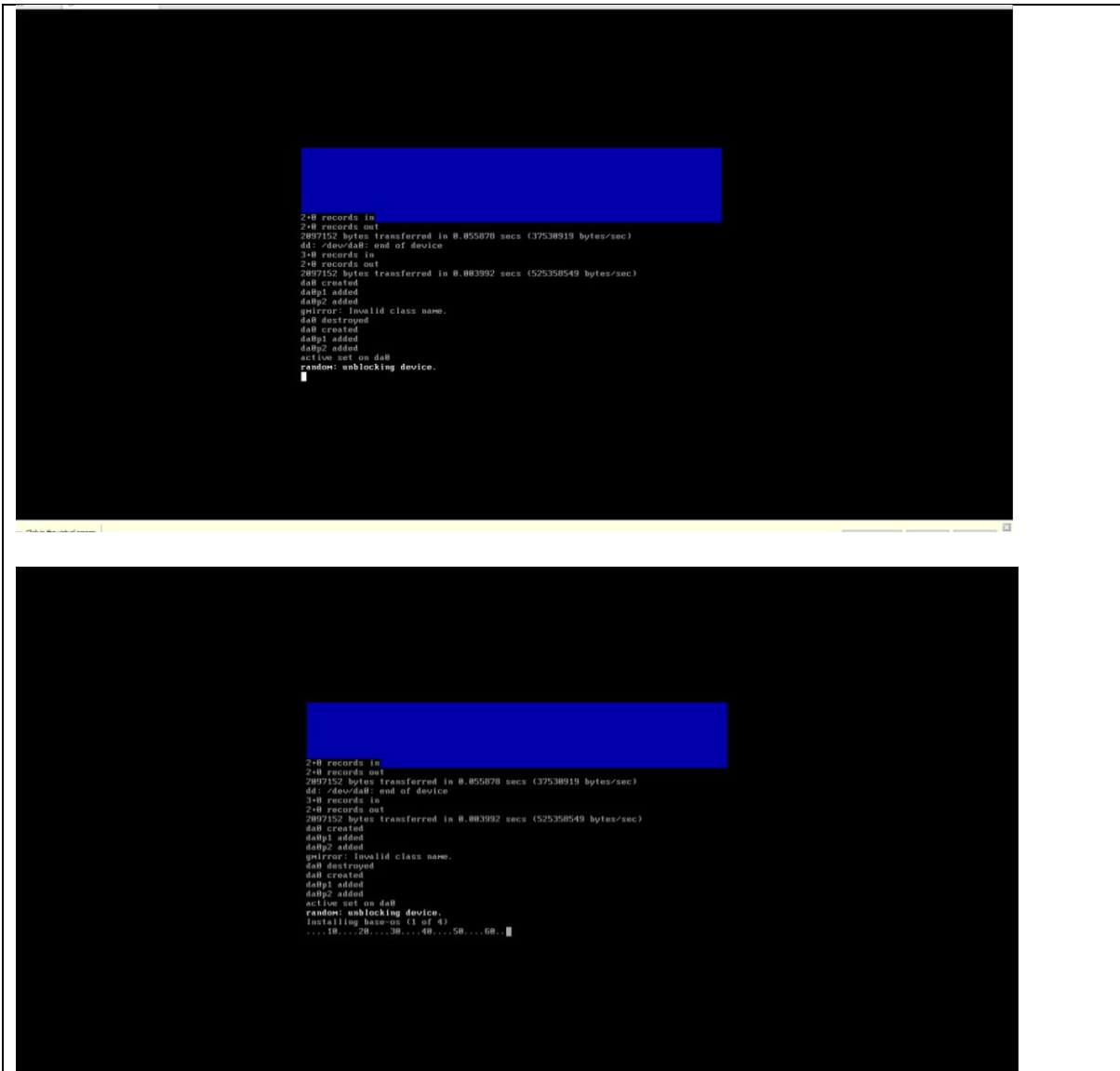


#### 6. Tampilan mode boot dari FreeNAS, pilih BIOS

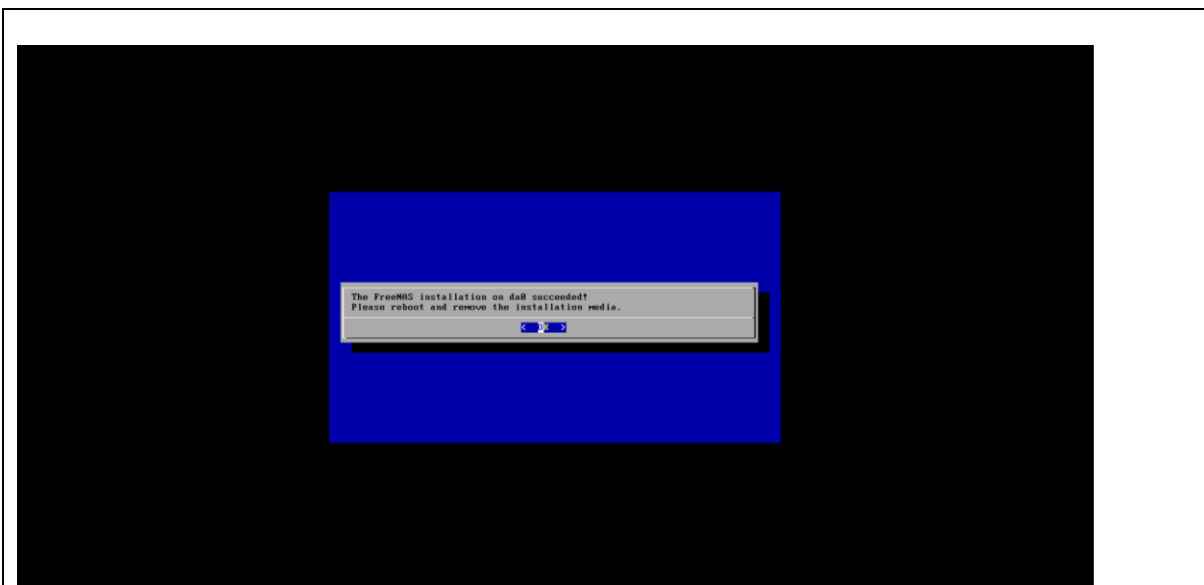


#### 7. Tampilan proses instalasi FreeNAS

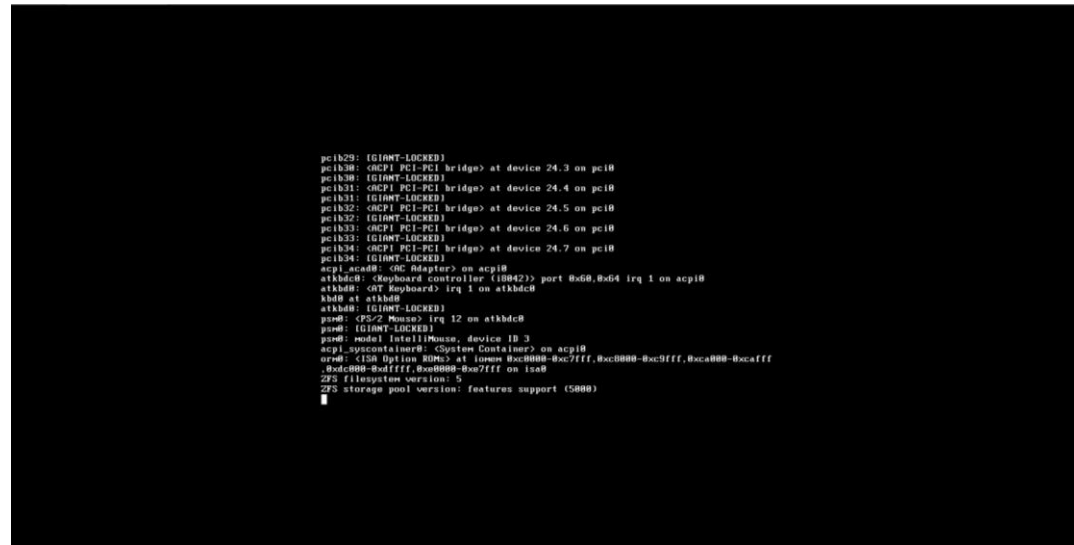




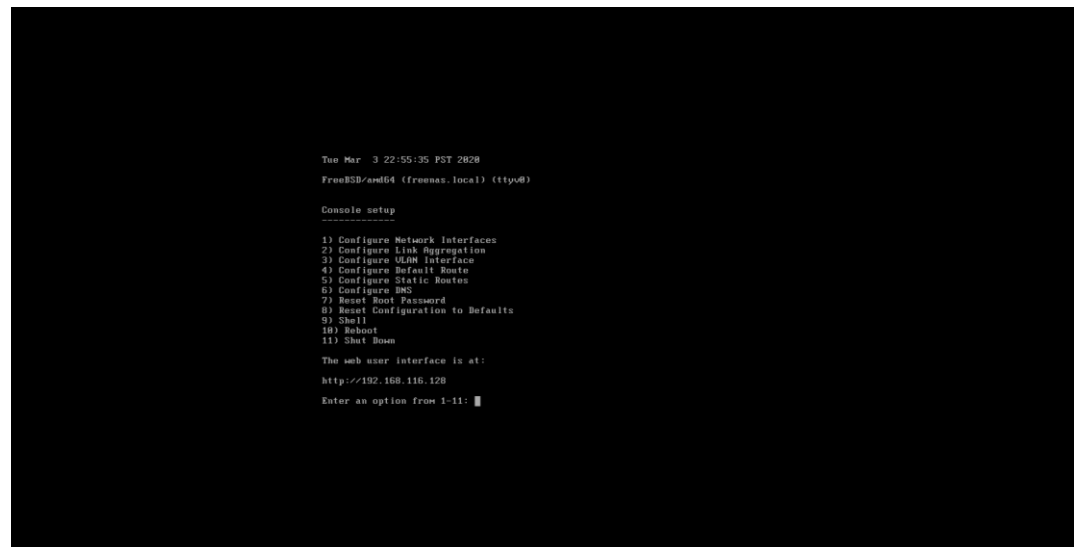
#### 8. Tampilan hasil akhir proses instalasi FreeNAS, pilih OK kemudian pilih Reboot System



## 9. Tampilan proses booting menuju FreeNAS OS

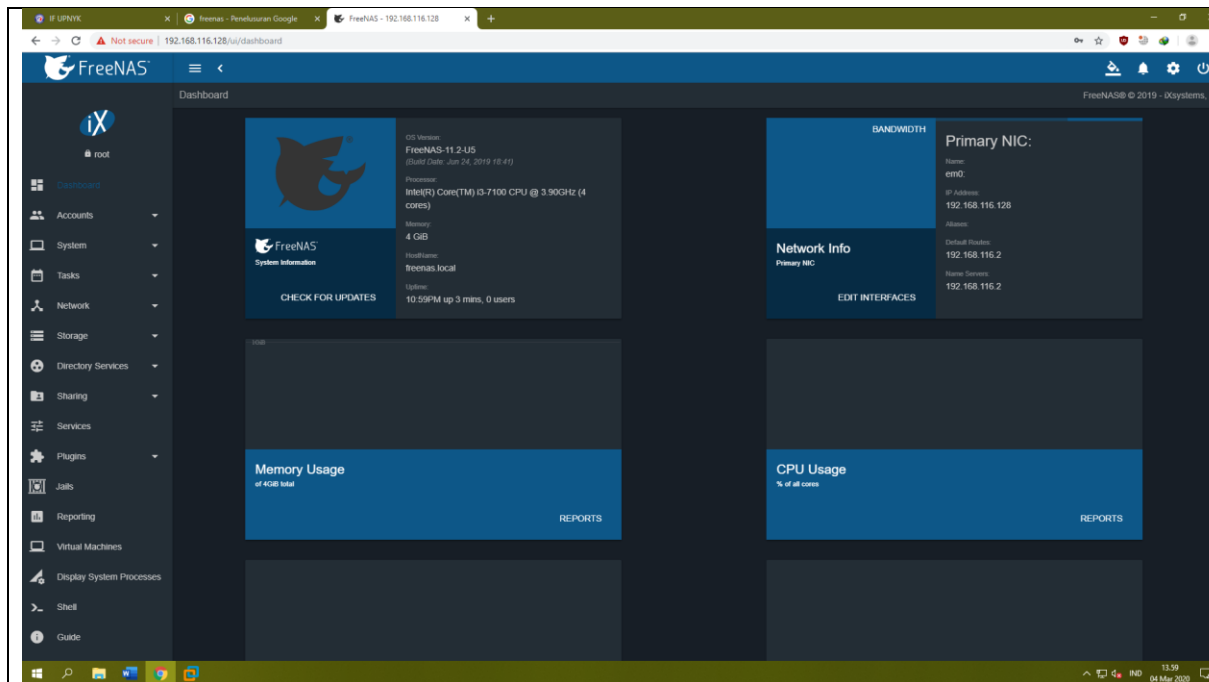


10. Tampilan hasil akhir booting yang menunjukkan Console Setup

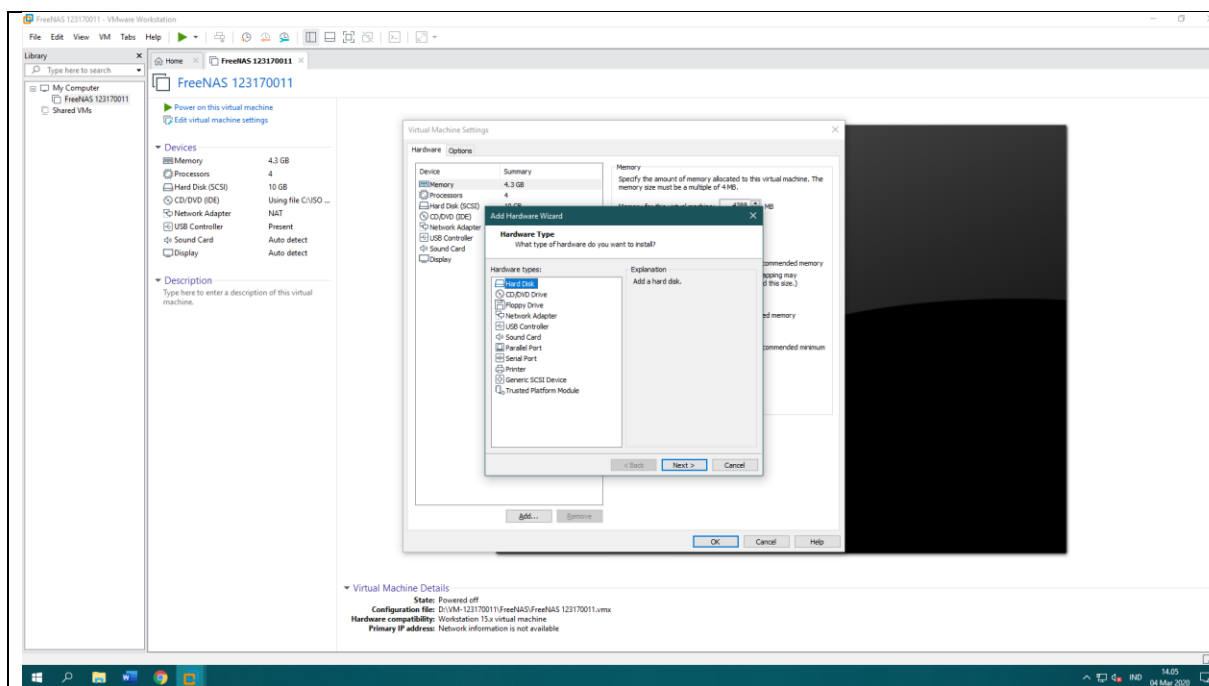


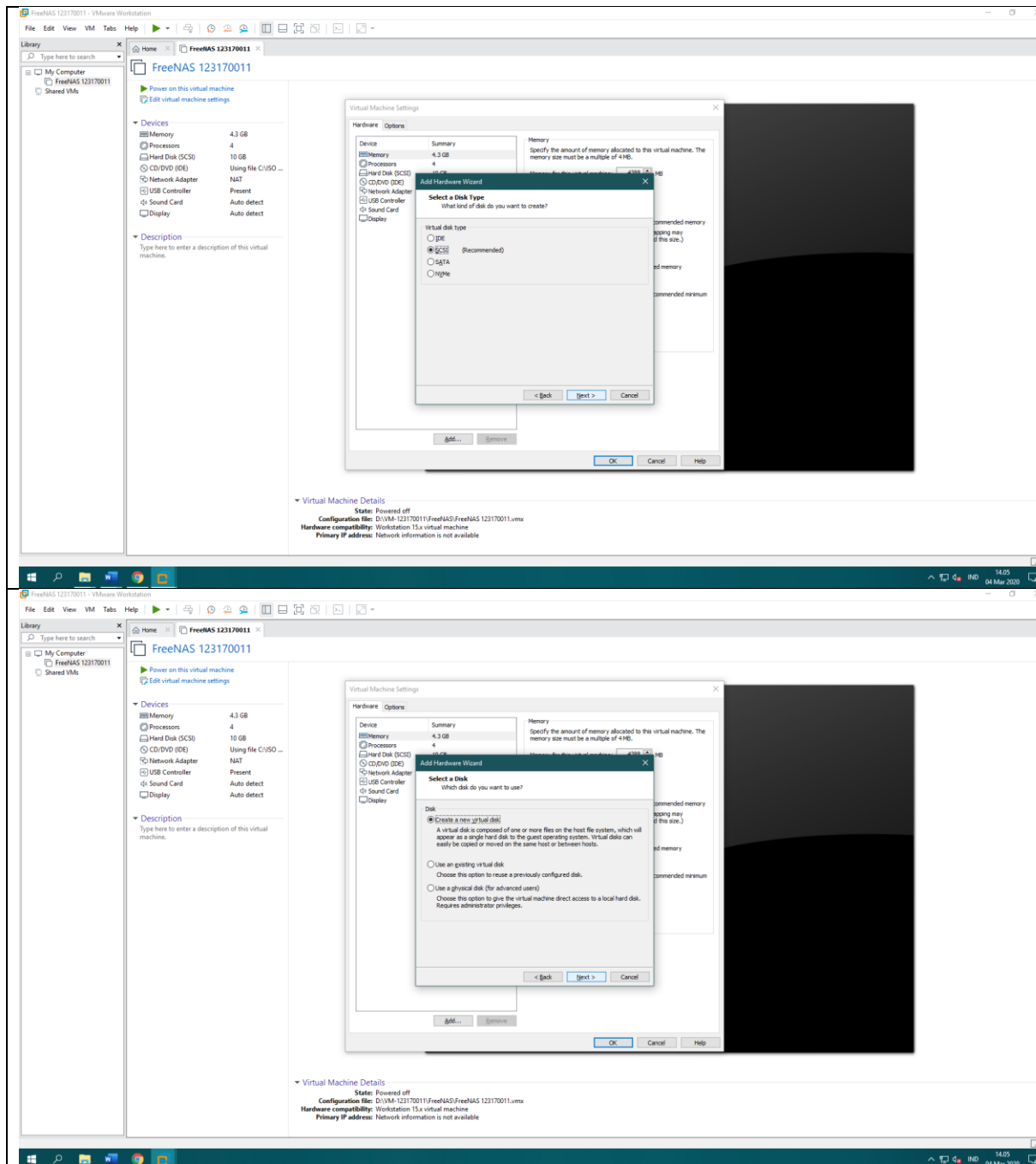
## TUGAS BAGIAN KETIGA – KONFIGURASI FREENAS:

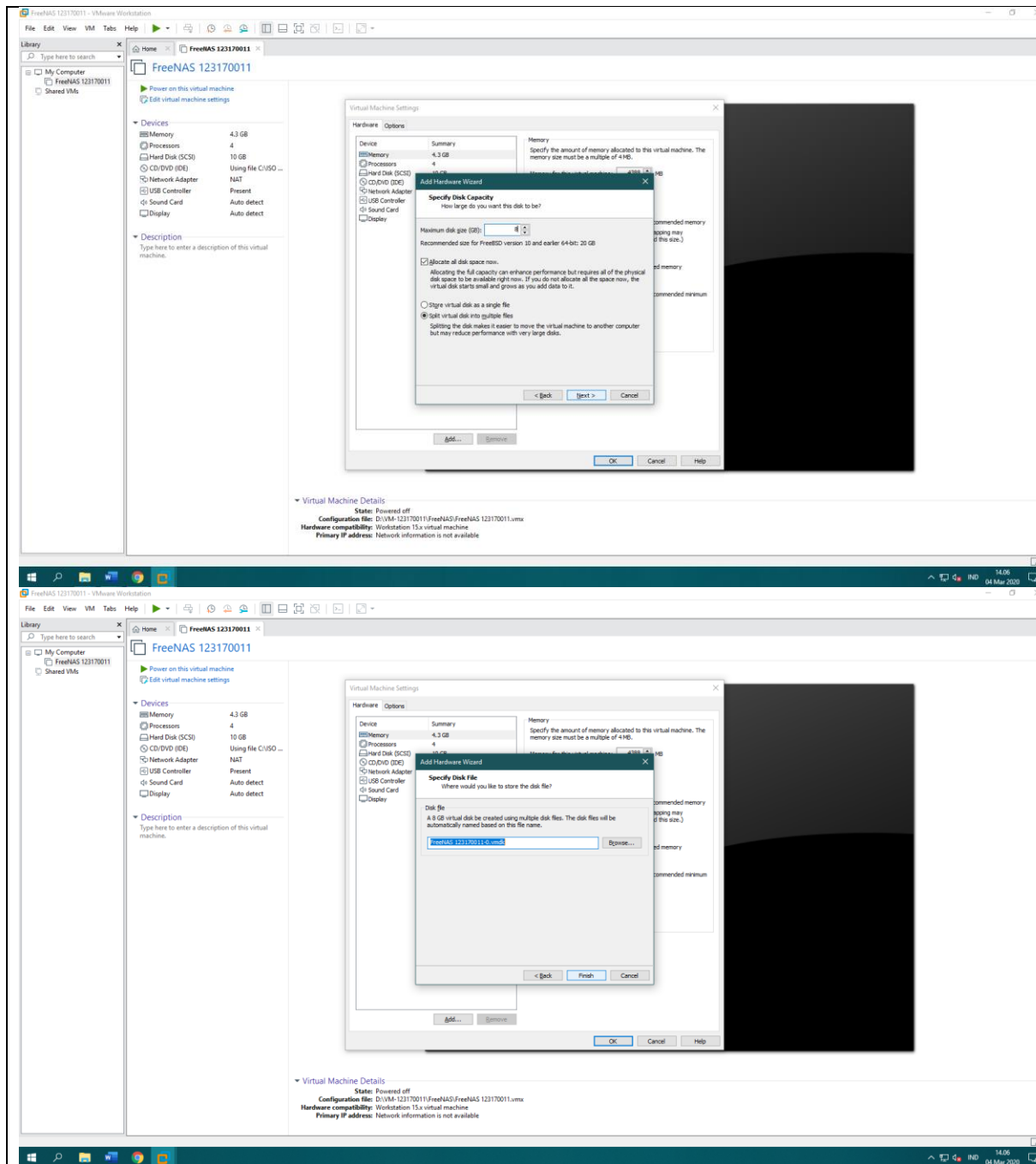
### 1. Tampilan dashboard setelah login FreeNAS



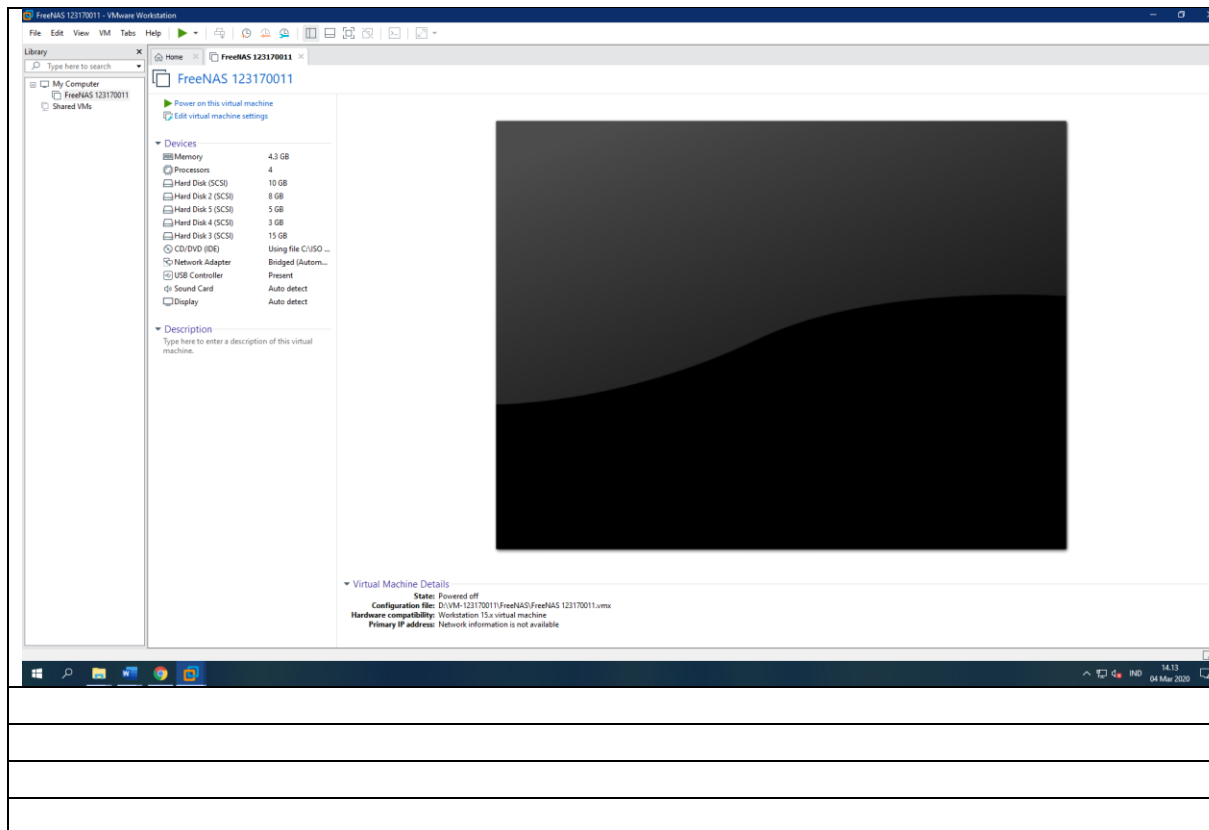
### 2. Tampilan konfigurasi VM pada Eksperimen #1



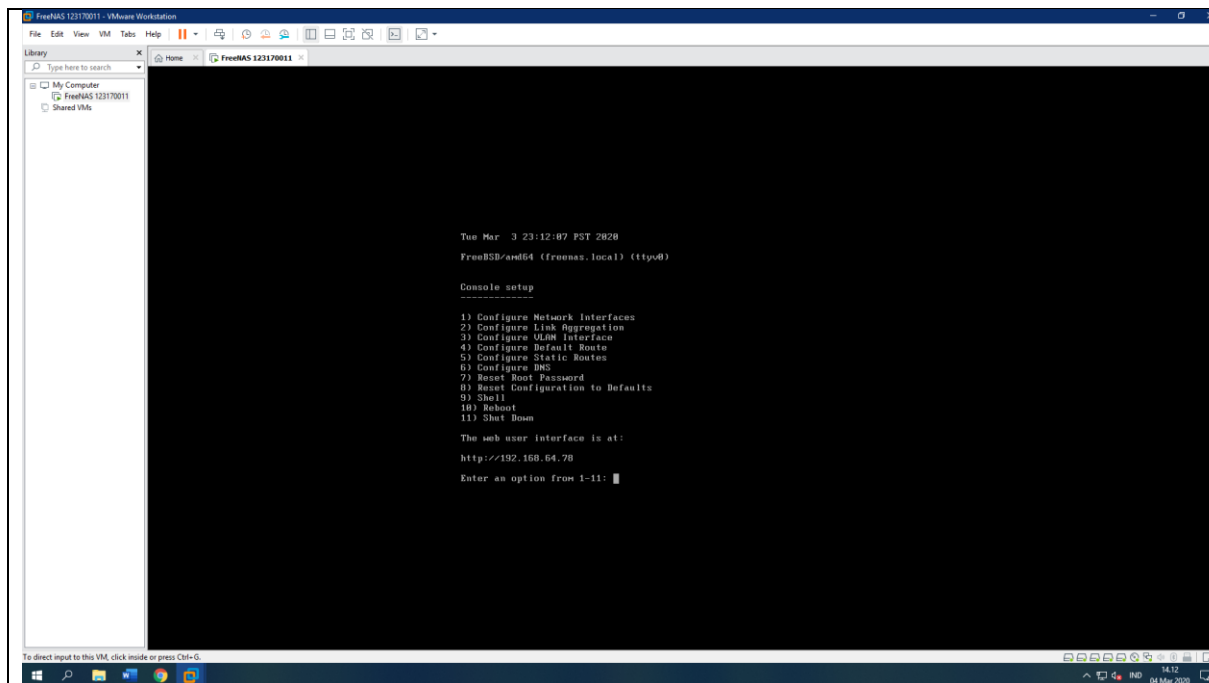


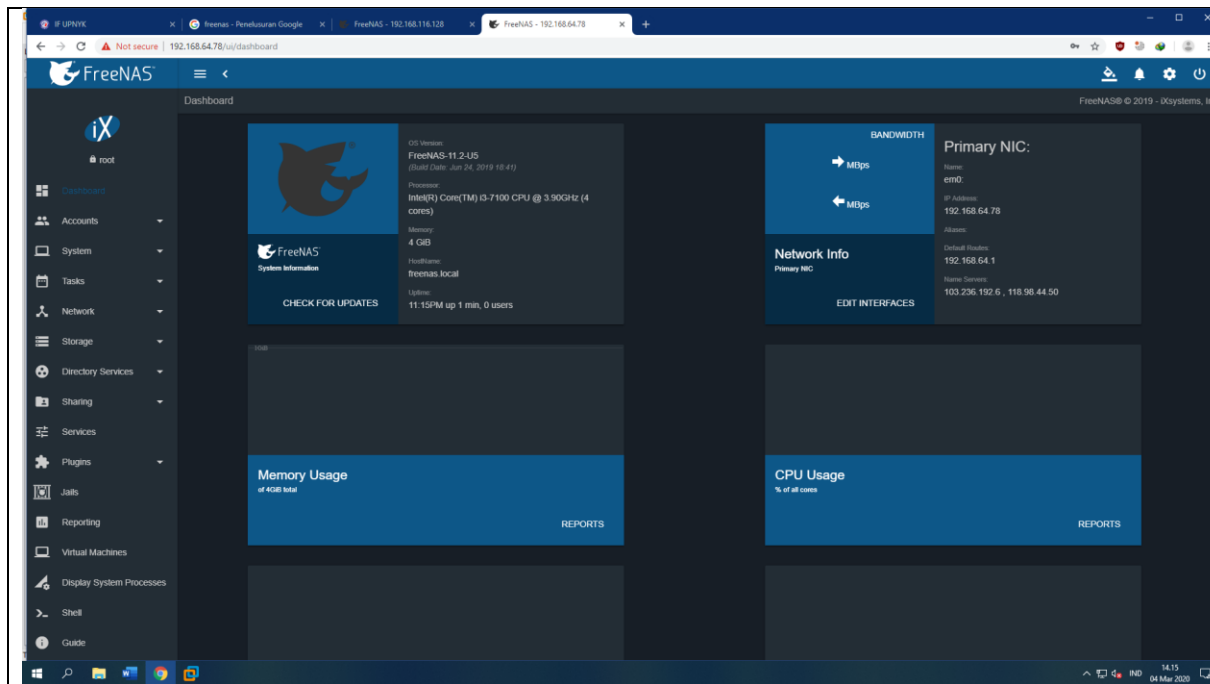




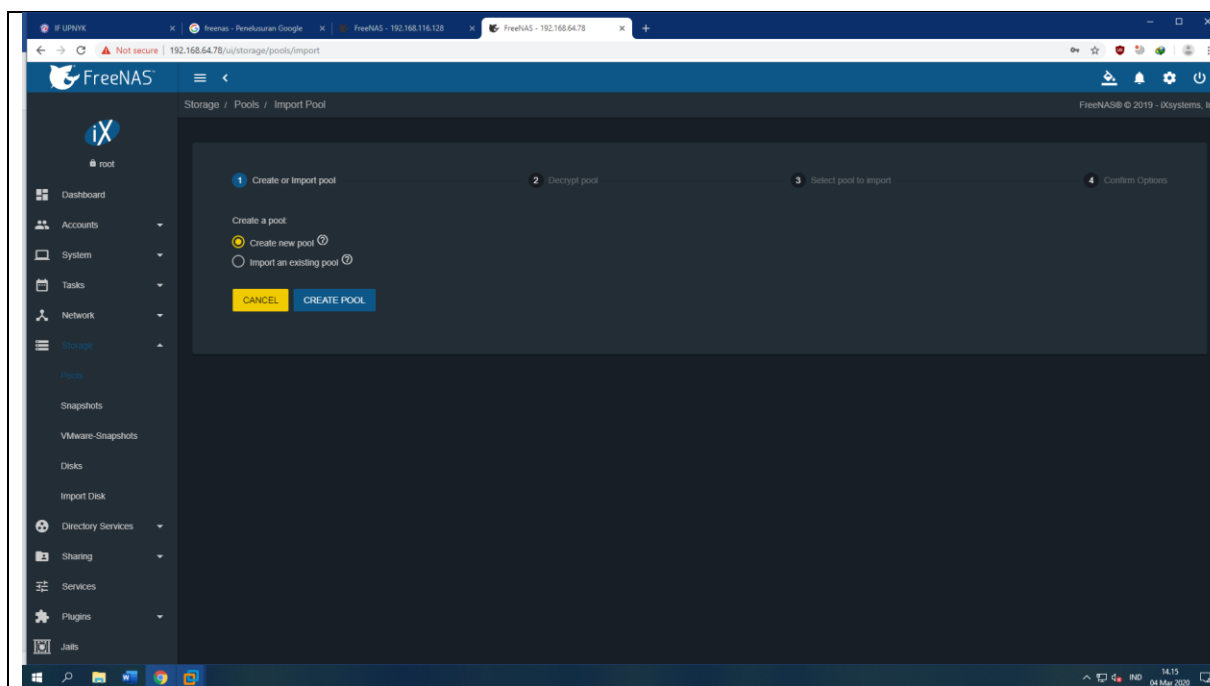


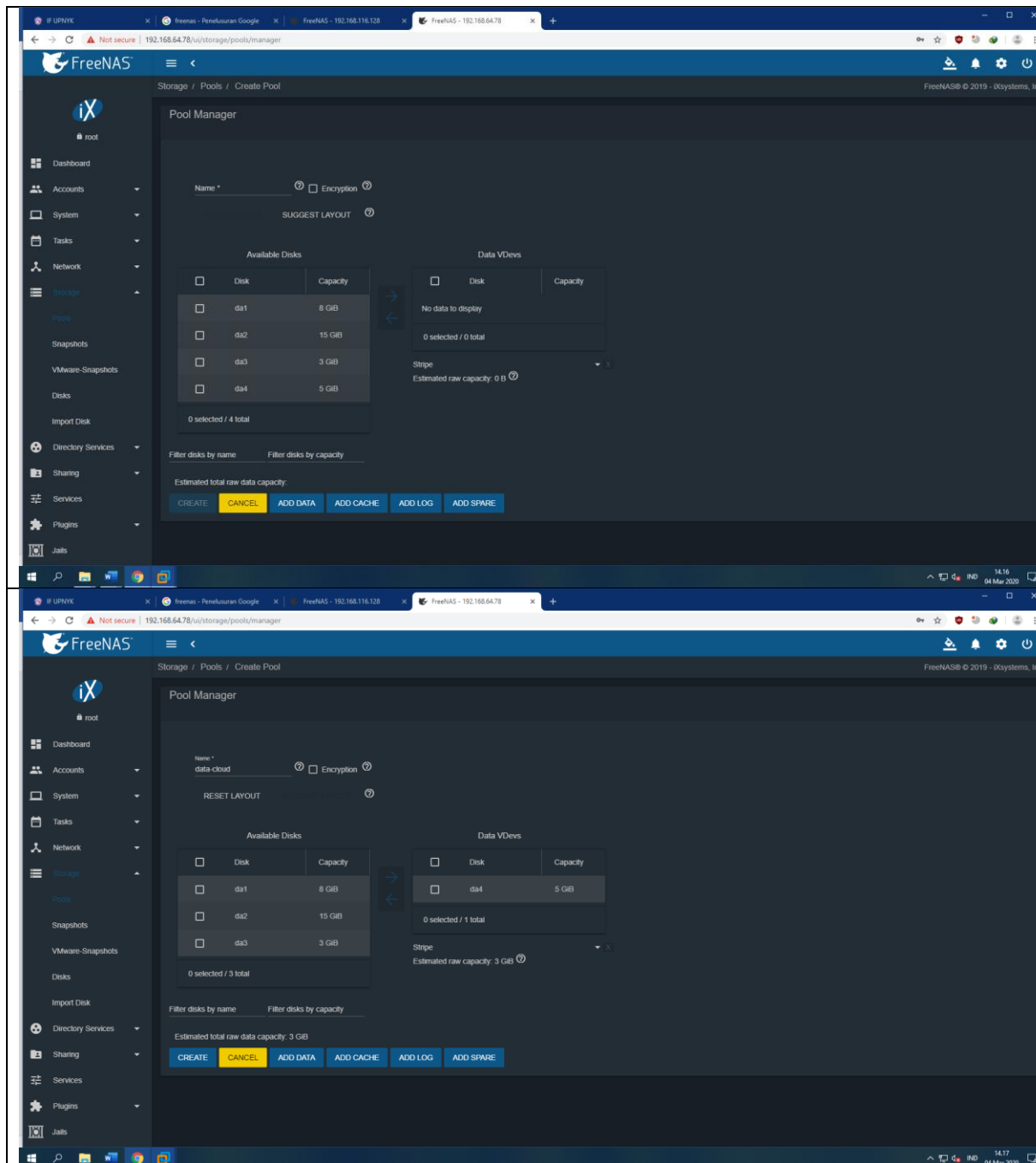
### 3. Tampilan IP pada dashboard Console Setup pada Eksperimen #2

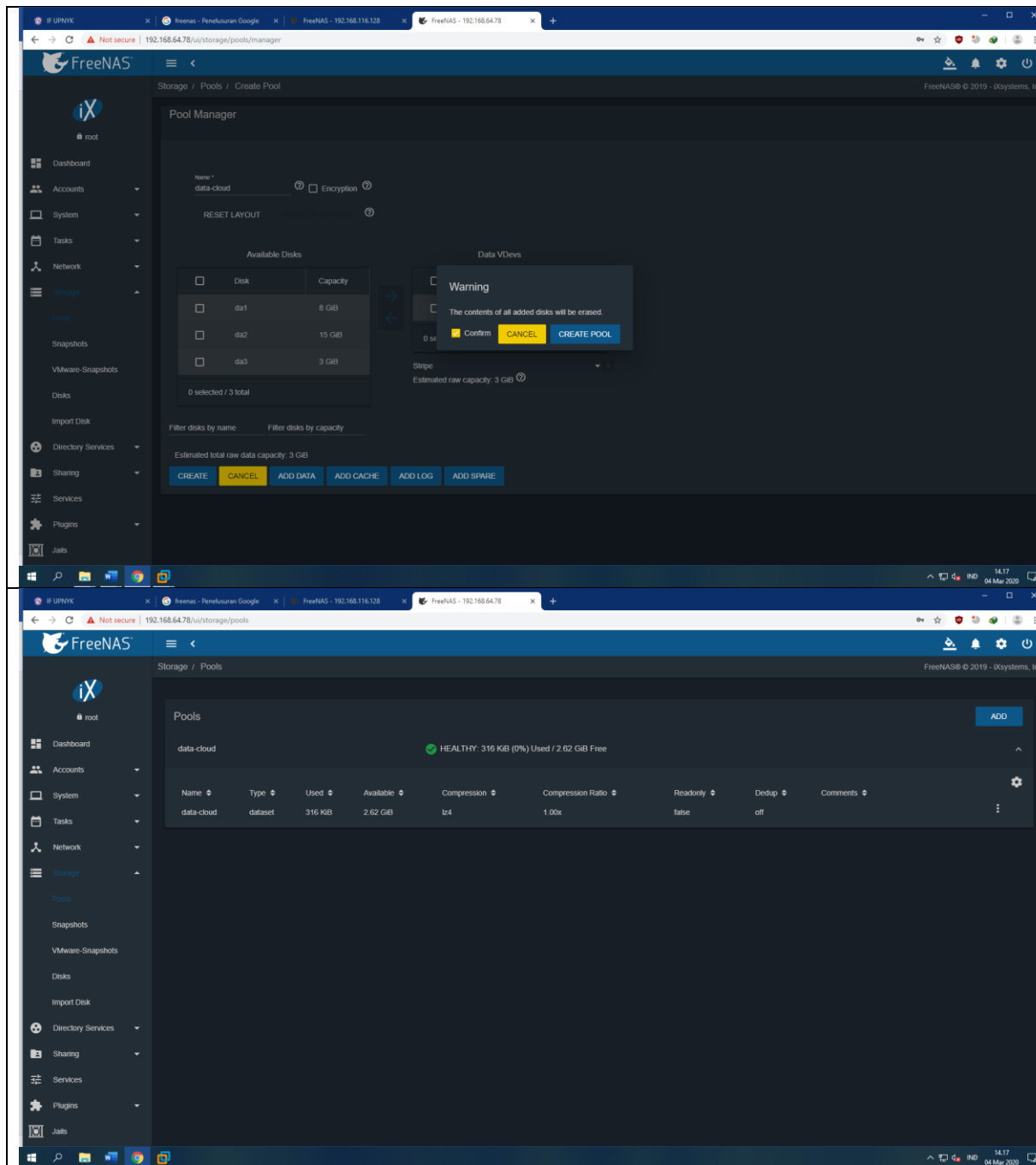


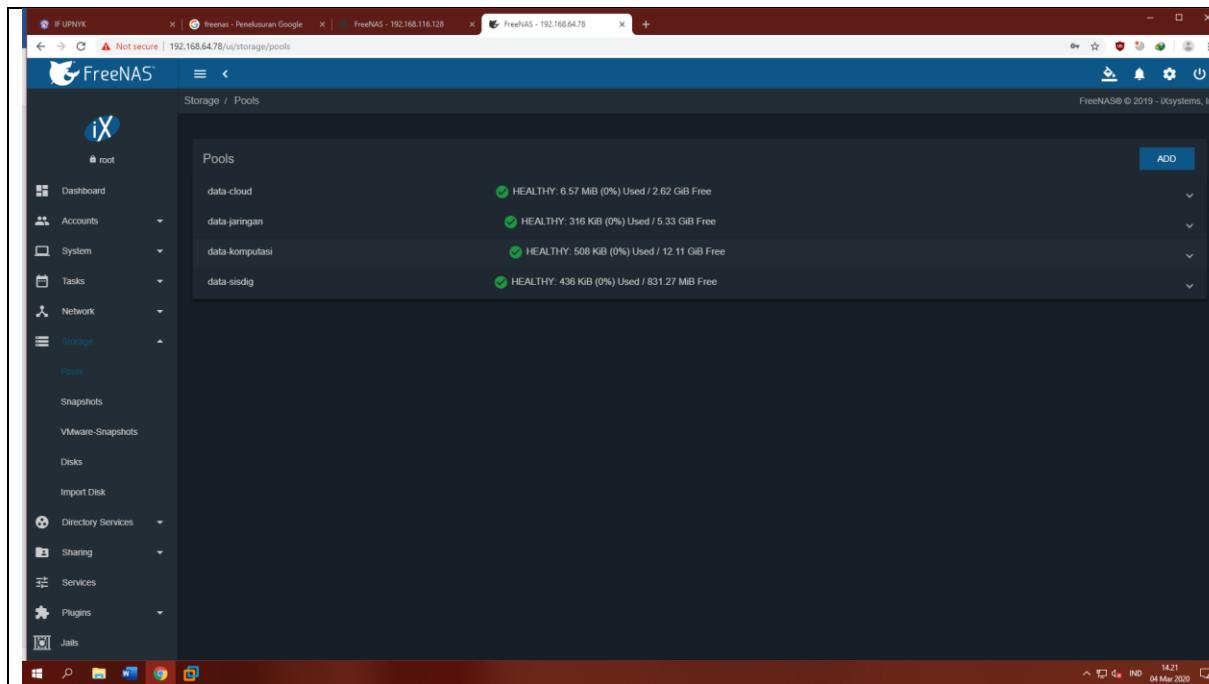


#### 4. Tampilkan hasil dari pembuatan pools tambahan pada menu Storage -> Pools

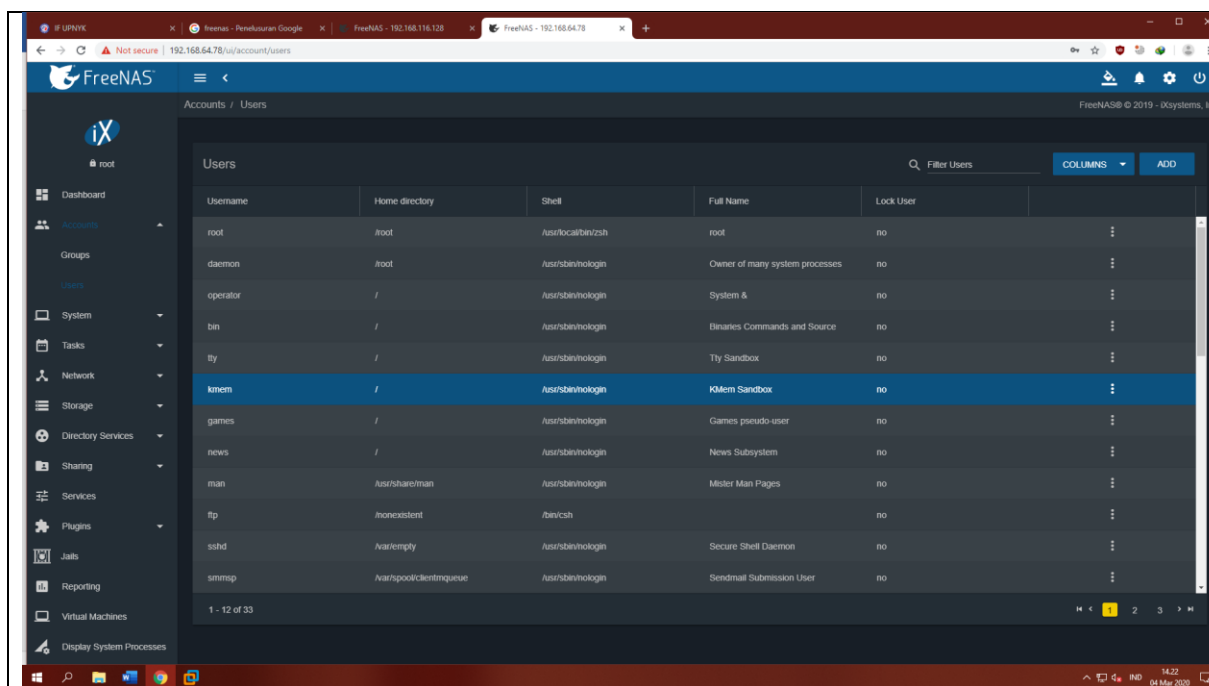








##### 5. Tampilkan hasil dari pembuatan user tambahan pada menu Accounts -> Users



The image displays two screenshots of the FreeNAS web interface, specifically the 'Accounts / Users / Add' page. The interface is dark-themed and includes a sidebar with navigation options like Dashboard, Accounts, Groups, Users, System, Tasks, Network, Storage, Directory Services, Sharing, Services, Plugins, Jails, Reporting, Virtual Machines, and Display System Processes.

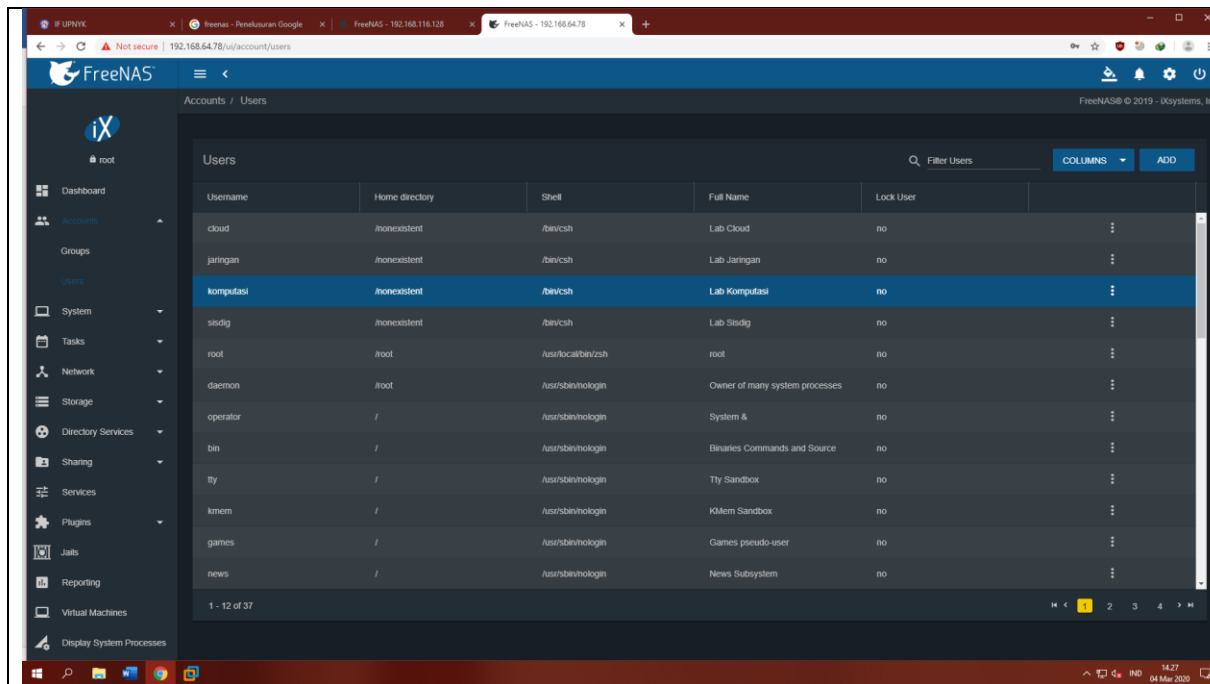
**Top Screenshot:** Shows the 'Add' user form. The 'Name & Contact' section has fields for Full Name, Username, Email, Password, and Confirm Password. The 'ID & Groups' section includes User ID (1000), a checkbox for 'New Primary Group', and a dropdown for 'Primary Group'. The 'Directories & Permissions' section shows a dropdown for 'Home Directory' (root) and a table for 'Home Directory Permissions' with checkboxes for Read, Write, and Execute for Owner, Group, and Other. The 'Authentication' section includes an 'SSH Public Key' field, a checkbox for 'Enable password login', a dropdown for 'Shell' (csh), and checkboxes for 'Lock User' and 'Permit Sudo'.

**Bottom Screenshot:** Shows the same form with the following values entered: Full Name: Lab Cloud, Username: cloud, Email: cloud, Password: computing, Confirm Password: computing, User ID: 1000, New Primary Group: unchecked, Primary Group: media, Home Directory: root, Home Directory Permissions: Read (Owner: checked, Group: checked, Other: checked), Write (Owner: checked, Group: checked, Other: checked), Execute (Owner: checked, Group: checked, Other: checked), Enable password login: checked, Shell: csh, Lock User: unchecked, Permit Sudo: unchecked.

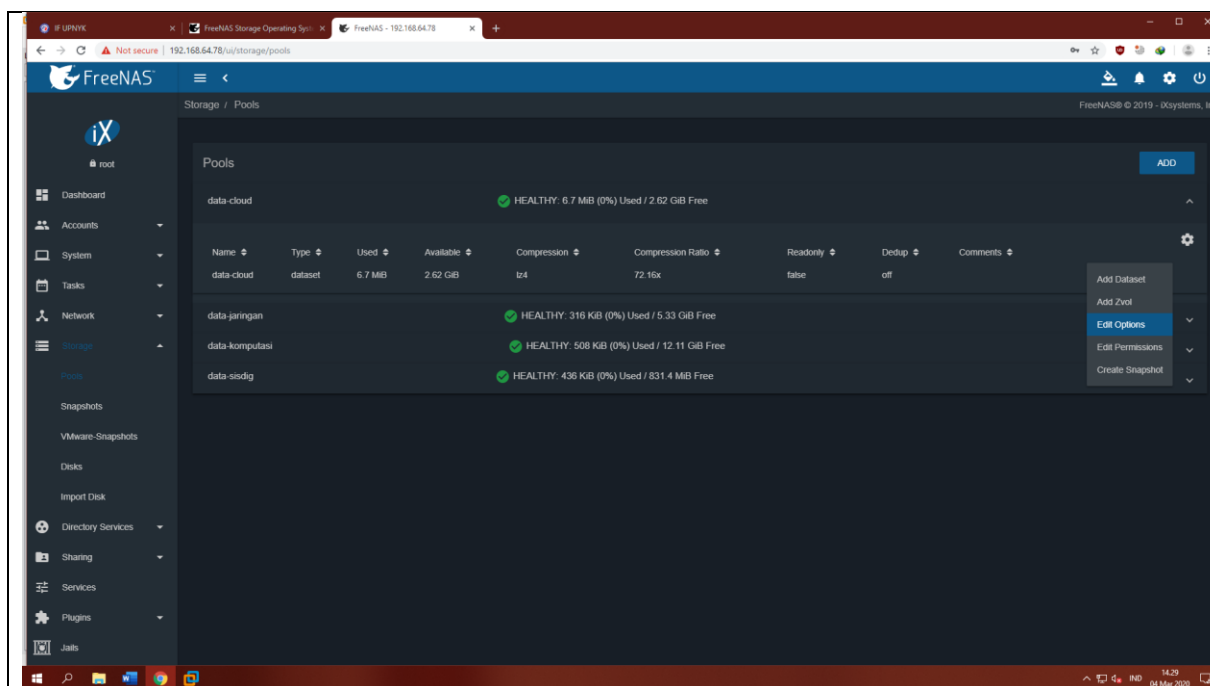
Username : cloud  
Password : computing

The top screenshot shows the FreeNAS 'Add' user form. The form includes fields for Email, Password, Confirm Password, ID & Groups (User ID: 1000), New Primary Group, Primary Group (media), Auxiliary Groups, Directories & Permissions (Home Directory: /nonexistent, Permissions: Read, Write, Execute), and Authentication (SSH Public Key, Enable password login: Yes, Shell: csh, Lock User: No, Permit Sudo: Yes, Microsoft Account: No). The bottom screenshot shows the 'Users' list table with the following data:

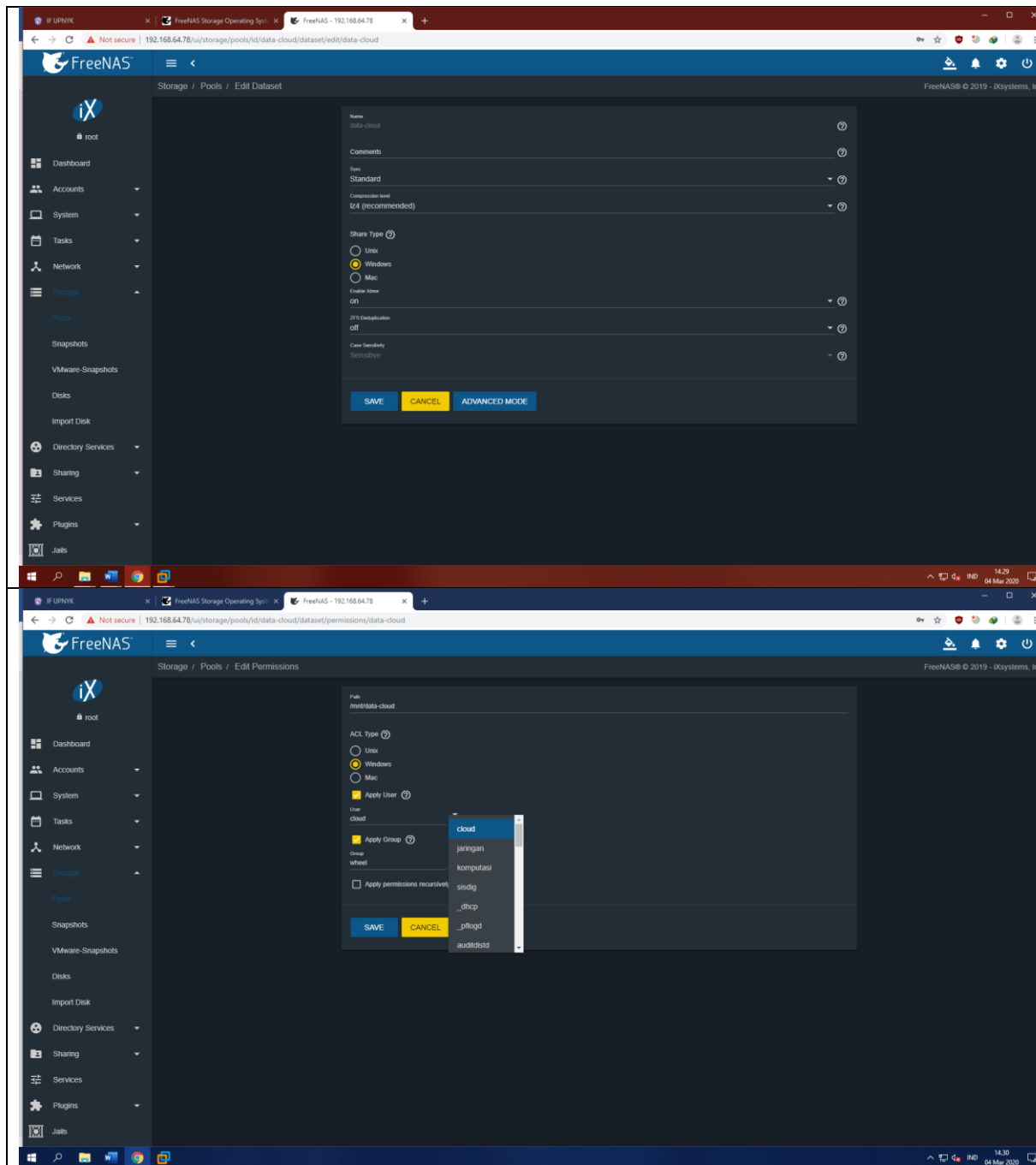
Username	Home directory	Shell	Full Name	Lock User
cloud	/nonexistent	/bin/csh	Lab Cloud	no
root	/root	/usr/local/bin/zsh	root	no
daemon	/root	/usr/sbin/nologin	Owner of many system processes	no
operator	/	/usr/sbin/nologin	System &	no
bin	/	/usr/sbin/nologin	Binaries Commands and Source	no
tty	/	/usr/sbin/nologin	Tty Sandbox	no
knmem	/	/usr/sbin/nologin	KMem Sandbox	no
games	/	/usr/sbin/nologin	Games pseudo-user	no
news	/	/usr/sbin/nologin	News Subsystem	no
man	/usr/share/man	/usr/sbin/nologin	Master Man Pages	no
ftp	/nonexistent	/bin/csh		no
sshd	/var/empty	/usr/sbin/nologin	Secure Shell Daemon	no

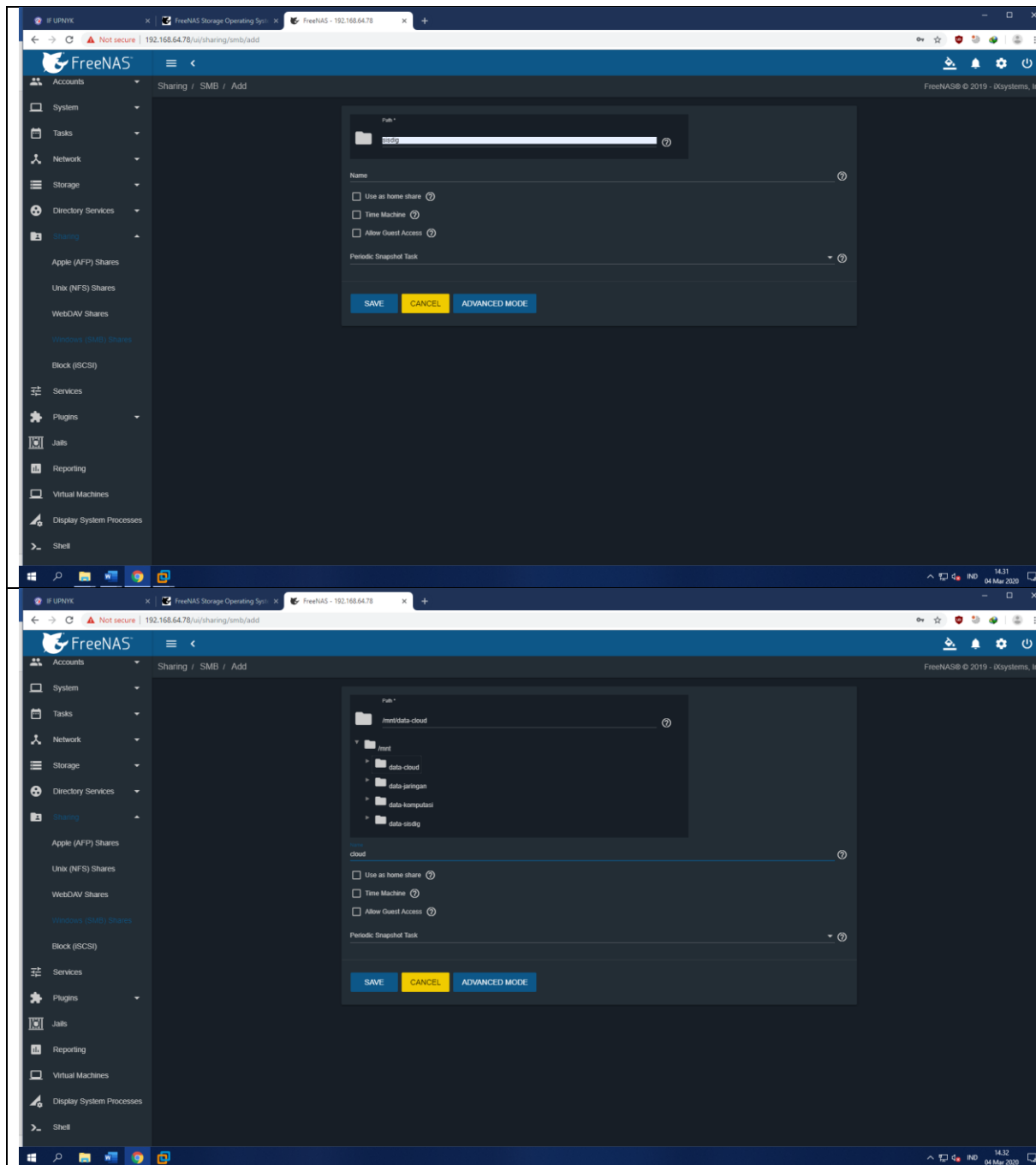


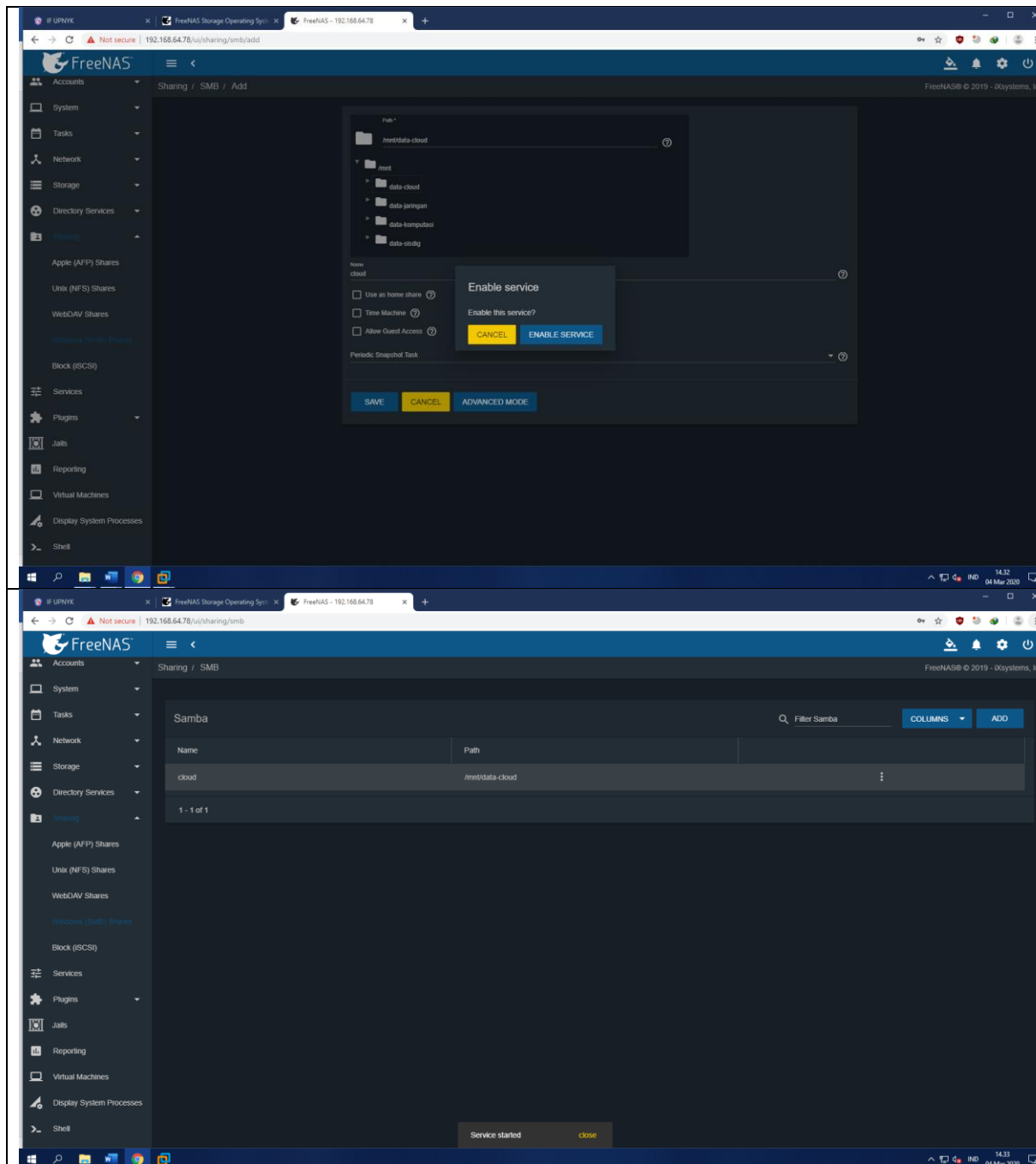
6. Tampilkan hasil dari pembuatan shares tambahan untuk 4 lab pada menu Sharing -> Windows (SMB) Shares



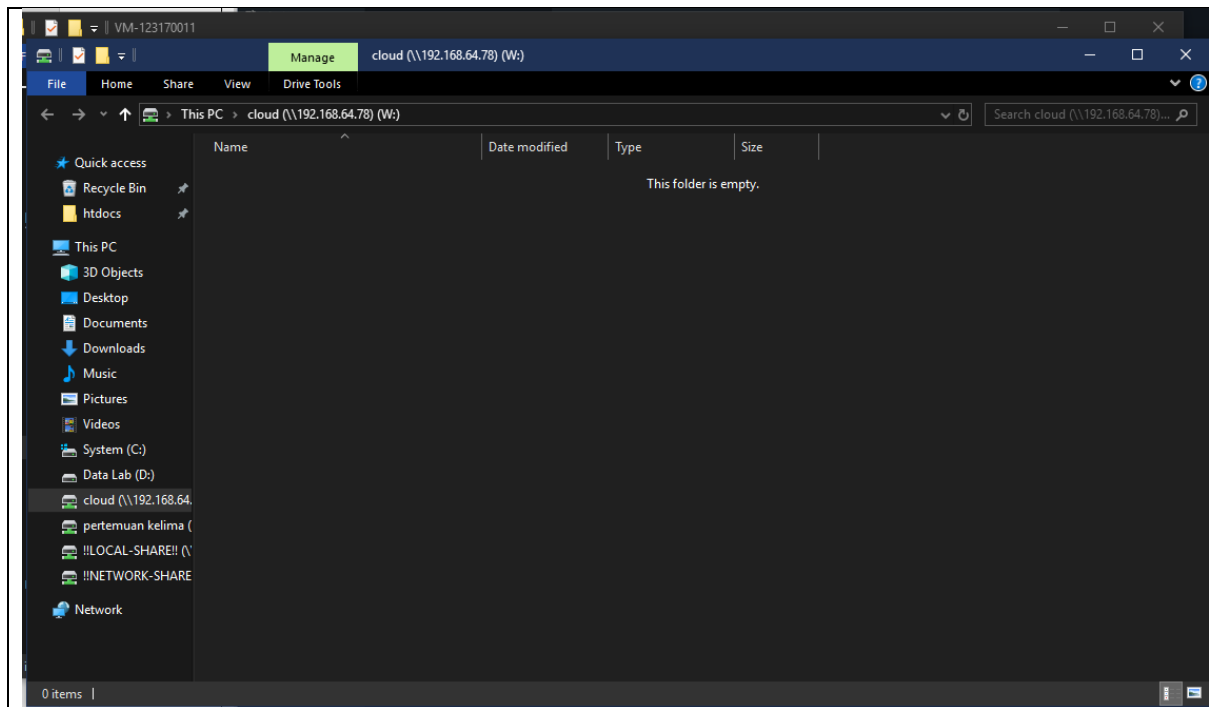




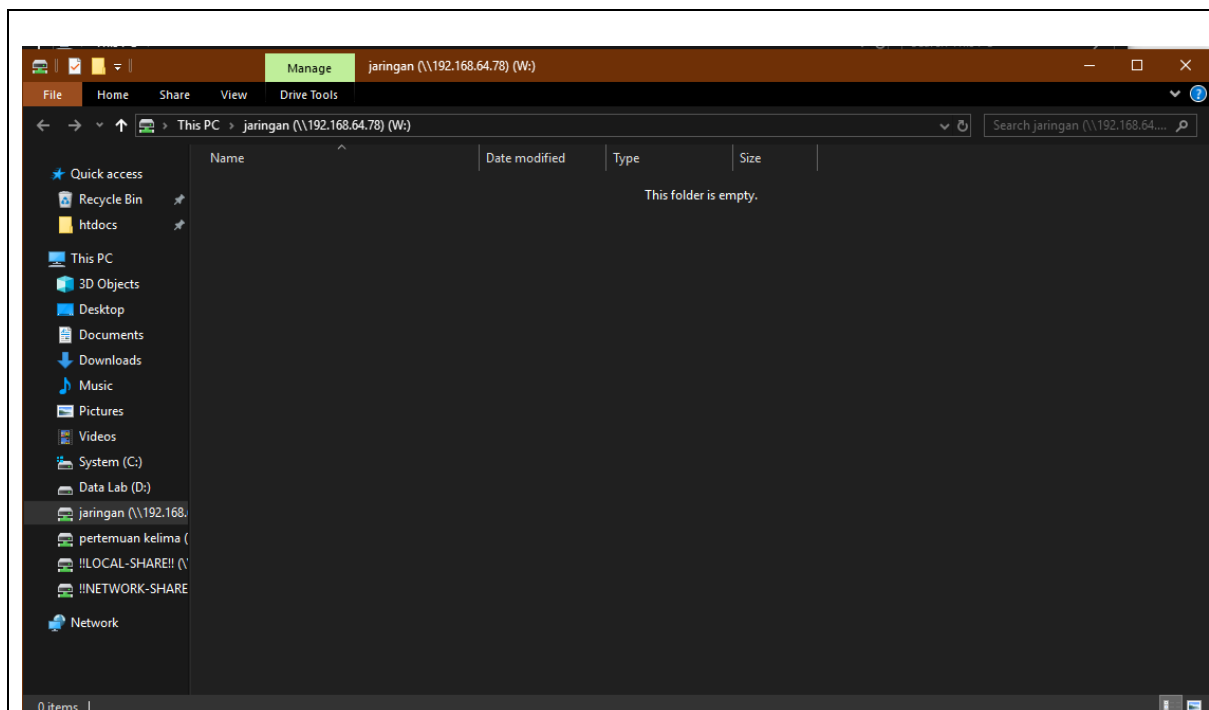




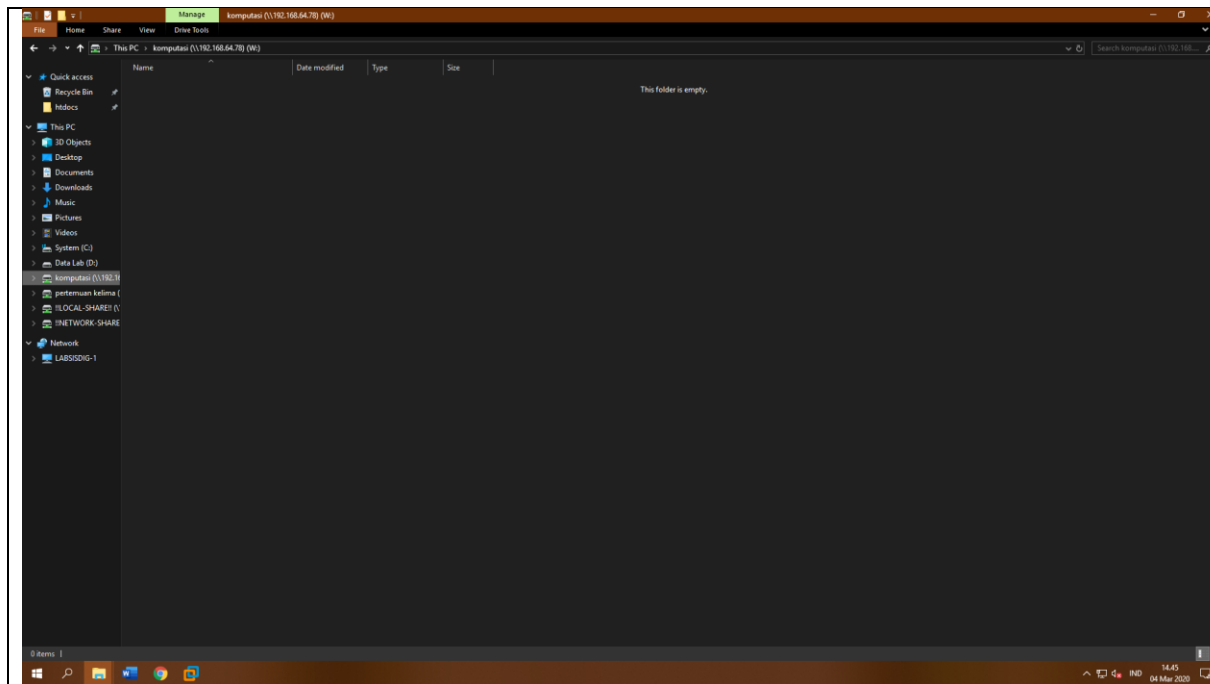
7. Tampilkan hasil akses shares pada Windows Explorer (hasil mapping) untuk Lab Cloud (yang pertama kali dibuat)



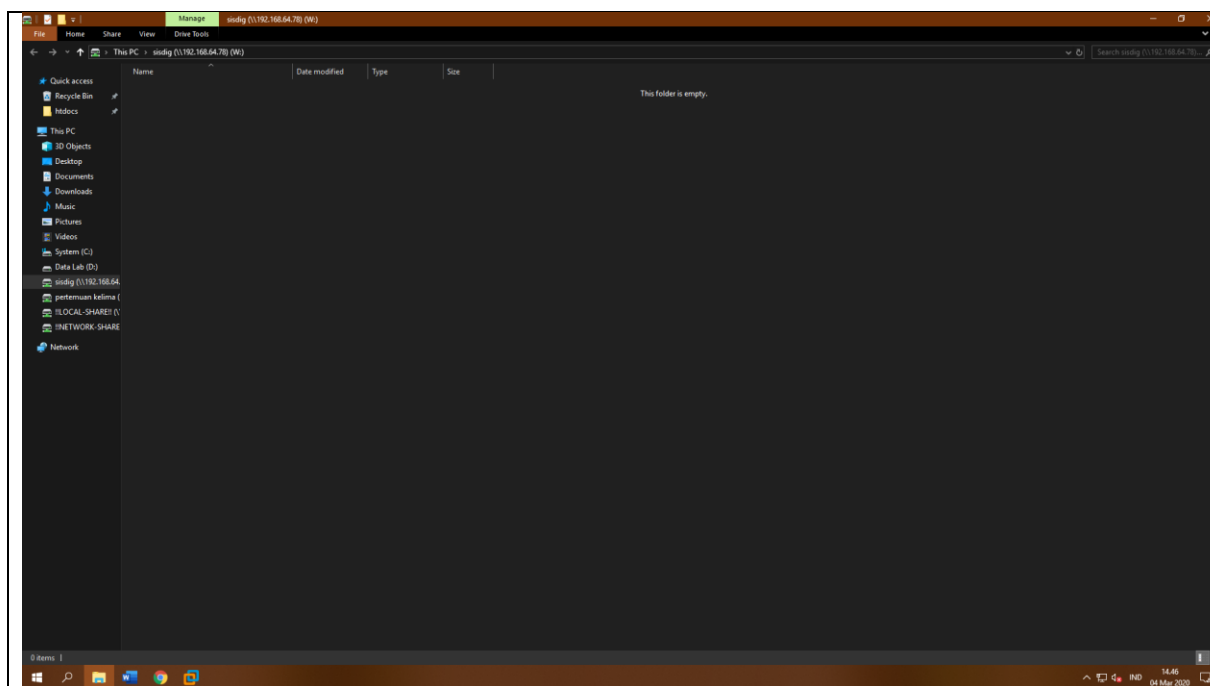
#### 8. Tampilkan hasil akses shares untuk Lab Jaringan



#### 9. Tampilkan hasil akses shares untuk Lab Komputasi



# 10. Tampilkan hasil akses shares untuk Lab Sisdig



**DOKUMENTASI PERTEMUAN KELIMA (BILA ADA)**