

LEMBAR KERJA PRAKTIKUM CLOUD COMPUTING

INSTALASI DAN KONFIGURASI LAYANAN FILE SHARING DENGAN FREENAS

IDENTITAS:

Nama:	Sakti Wicaksono
NIM:	123170031
Kelas:	E
Hari, Tanggal:	Rabu, 04 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

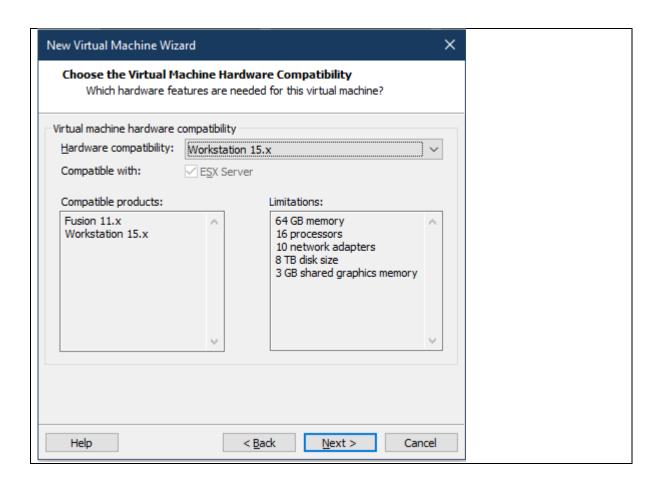


TUGAS BAGIAN PERTAMA – PEMBUATAN VM:

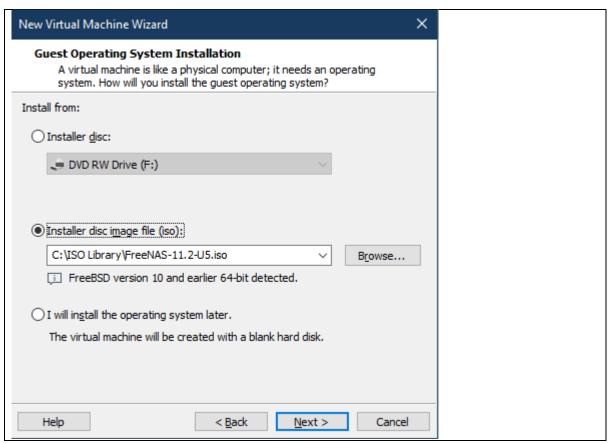
1. Gunakan opsi konfigurasi Custom



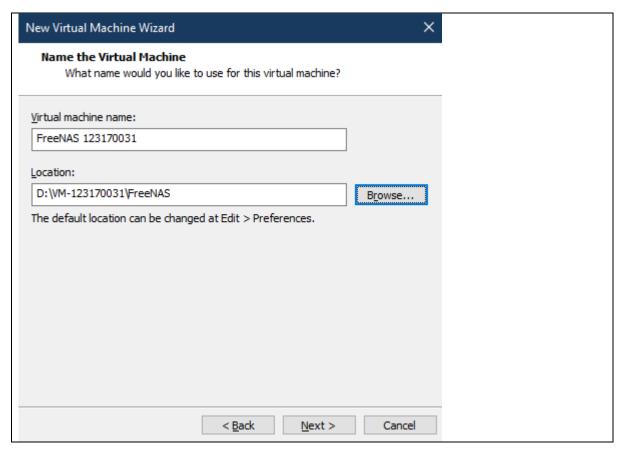
2. Gunakan compatibility Workstation 15.X



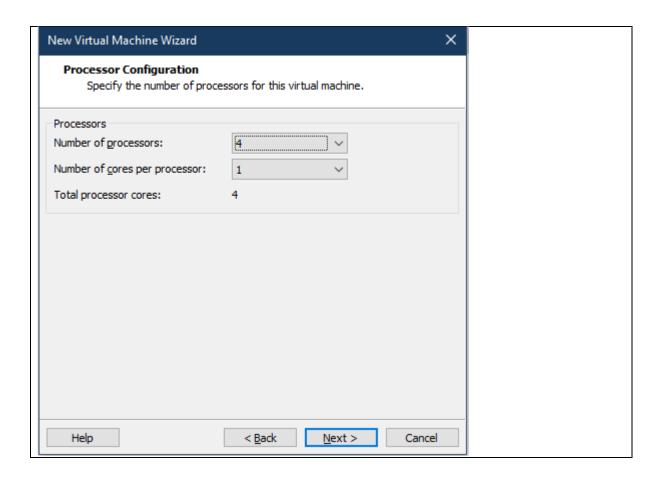
3. Gunakan ISO FreeNAS-11.2-U5 di folder ISO Library



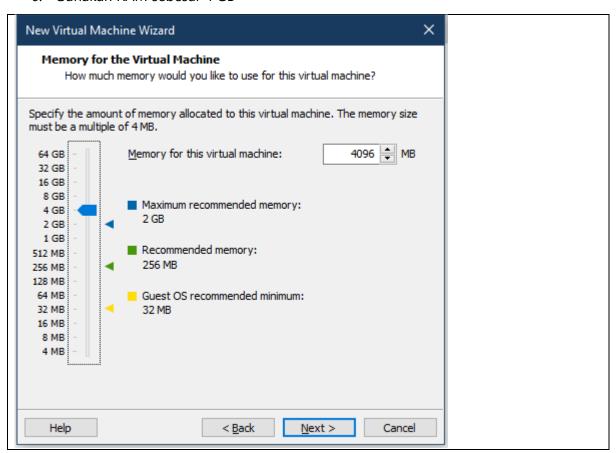
4. Format nama VM: FreeNAS NIM dan buat folder FreeNAS di dalam VM-NIM



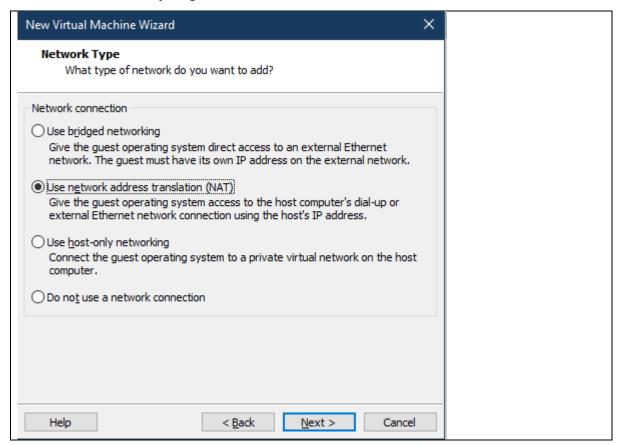
5. Gunakan 4 processor dan 1 core



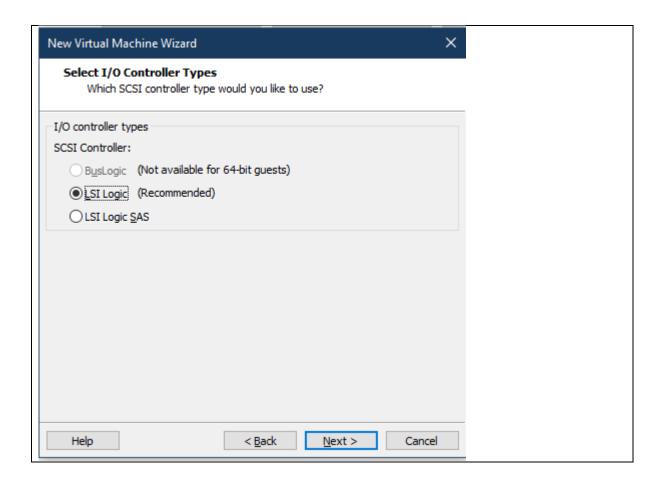
6. Gunakan RAM sebesar 4 GB



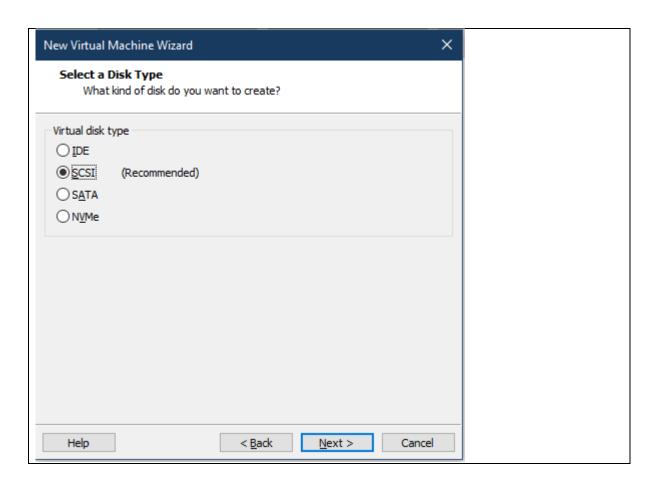
7. Gunakan mode jaringan NAT



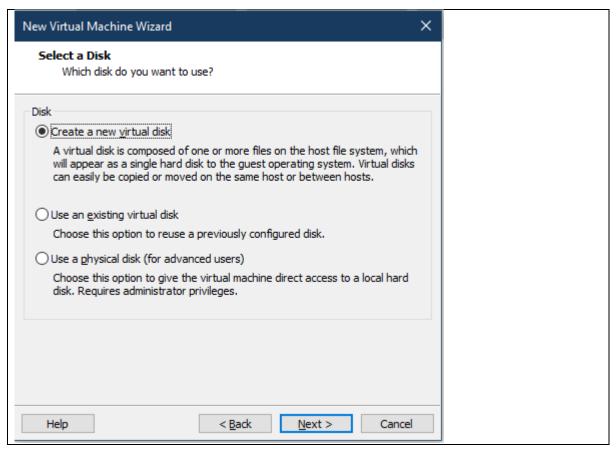
8. Gunakan pengaturan default I/O Controller



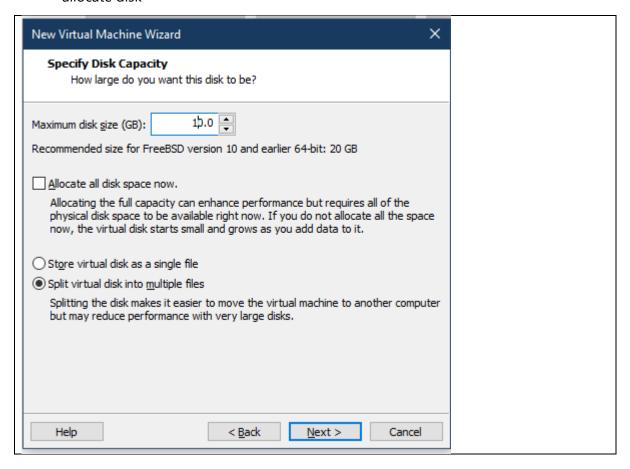
9. Gunakan pengaturan default Virtual Disk Type



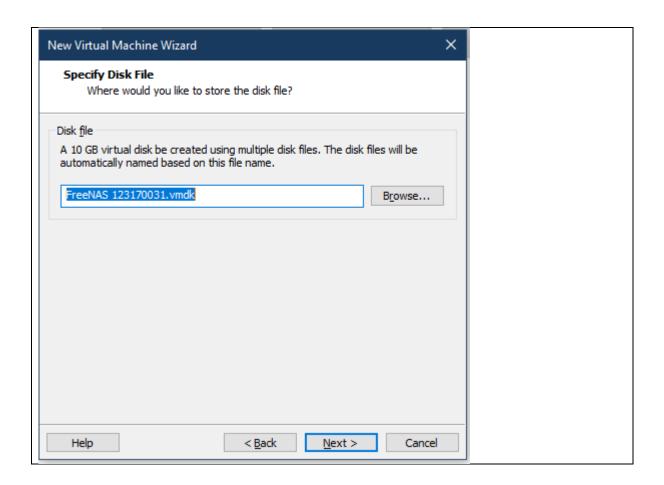
10. Pilih opsi buat virtual disk baru



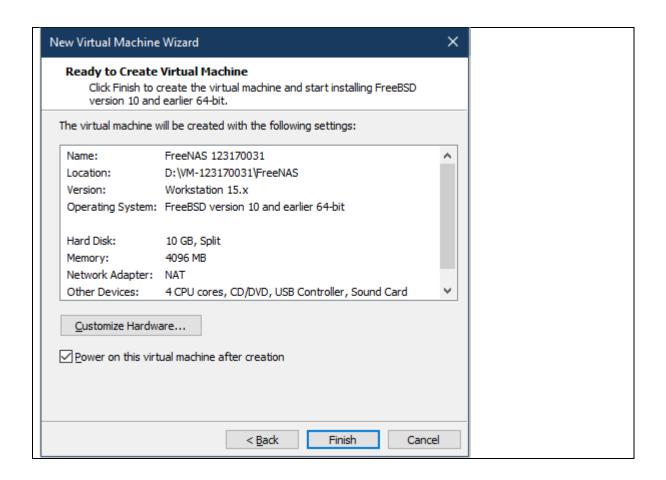
11. Buat disk untuk sistem sebesar 10 GB dengan mode Split dan hilangkan checklist allocate disk



12. Gunakan pengaturan default untuk nama disk

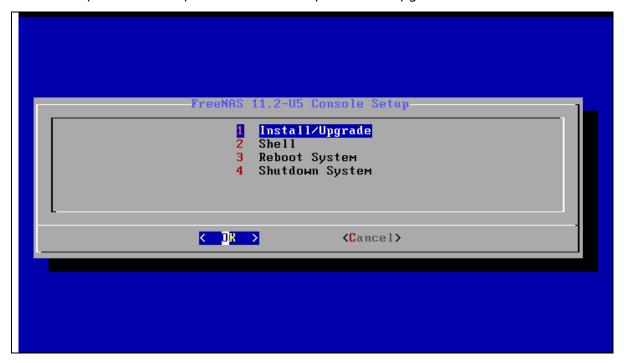


13. Tampilkan tangkapan layar dari ringkasan konfigurasi Virtual Machine (tahap akhir Wizard) lalu nyalakan VM

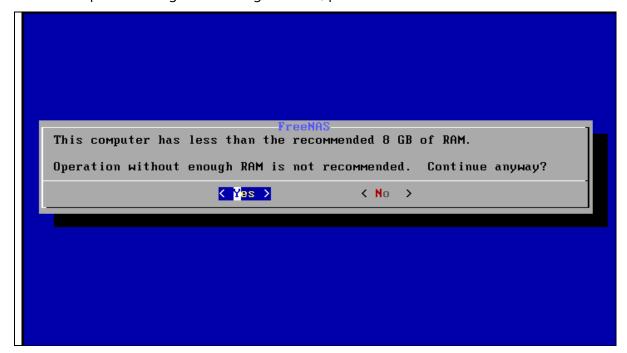


TUGAS BAGIAN KEDUA – INSTALASI FREENAS:

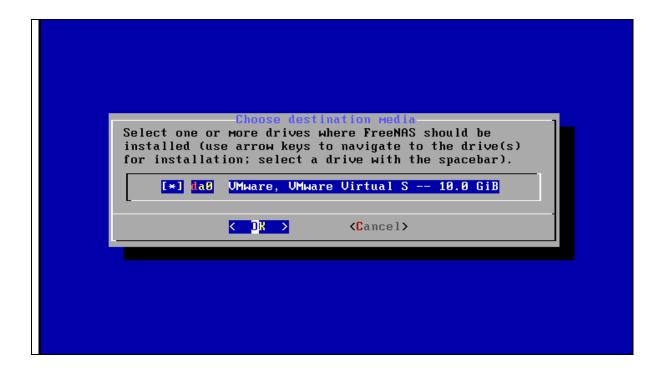
1. Tampilan awal tahap instalasi FreeNAS, pilih Install/Upgrade



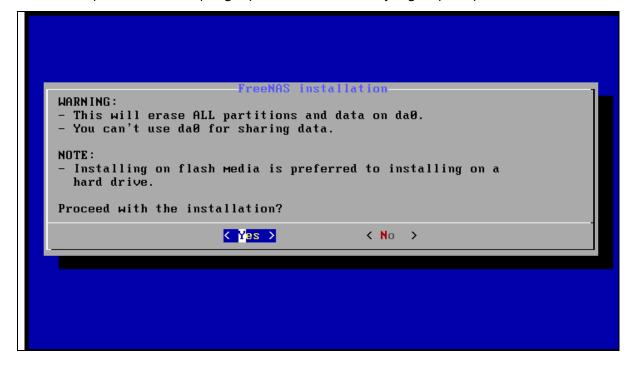
2. Tampilan warning RAM kurang dari 8GB, pilih Yes



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



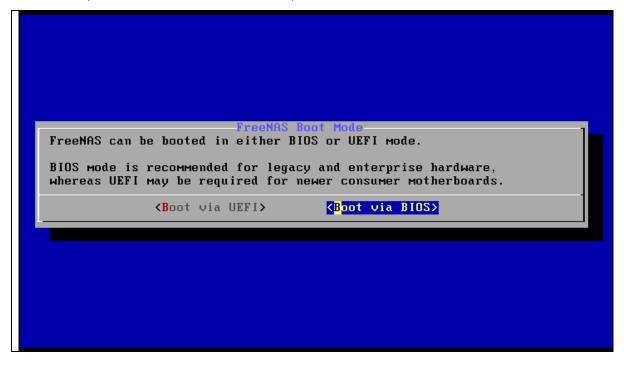
4. Tampilan konfirmasi penghapusan/format media yang terpilih, pilih Yes



5. Tampilan pengaturan kata sandi, gunakan NIM atau bebas



6. Tampilan mode boot dari FreeNAS, pilih BIOS

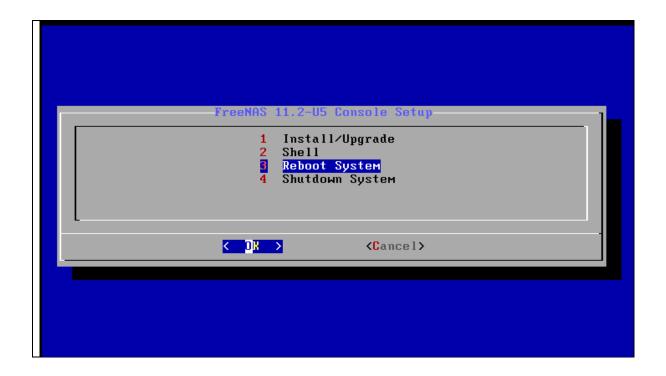


7. Tampilan proses instalasi FreeNAS

```
2+0 records in
2+0 records out
2097152 bytes transferred in 0.051265 secs (40907982 bytes/sec)
dd: /dev/da0: end of device
3+0 records in
2+0 records out
2097152 bytes transferred in 0.002902 secs (722733188 bytes/sec)
da0 created
da0p1 added
da0p2 added
gmirror: Invalid class name.
da0 destroyed
da0 created
da0p1 added
da0p2 added
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





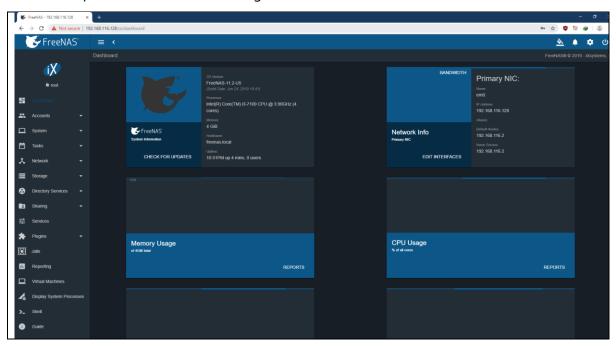
9. Tampilan proses booting menuju FreeNAS OS

```
psm0: (PS/2 Mouse) irq 12 on atkbdc0
psm0: [GIANT-LOCKED]
psm0: model IntelliMouse, device ID 3
acpi_syscontainer8: (System Container) on acpi0
orm0: (SISA Option ROMs) at iomem 0xc0000-0xc7fff,0xc8000-0xc9fff,0xca000-0xcafff
,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 middlewared.
freenas_sysctl: adding services.
ipfw2 (+ipv6) initialized, divert enabled, nat enabled, default to accept, loggi
ng disabled
ugen1.1: (0x15ad EHCI root HUB) at usbus1
ugen8.1: (0x15ad EHCI root HUB) at usbus0
uhub0: (0x15ad EHCI root HUB, class 9/0, rev 2.00/1.00, addr 1) on usbus1
uhub1: (0x15ad UHCI root HUB, class 9/0, rev 1.00/1.00, addr 1) on usbus0
uhub1: 2 ports with 2 removable, self powered
ugen0.2: (VMware VMware Virtual USB Mouse) at usbus0
```

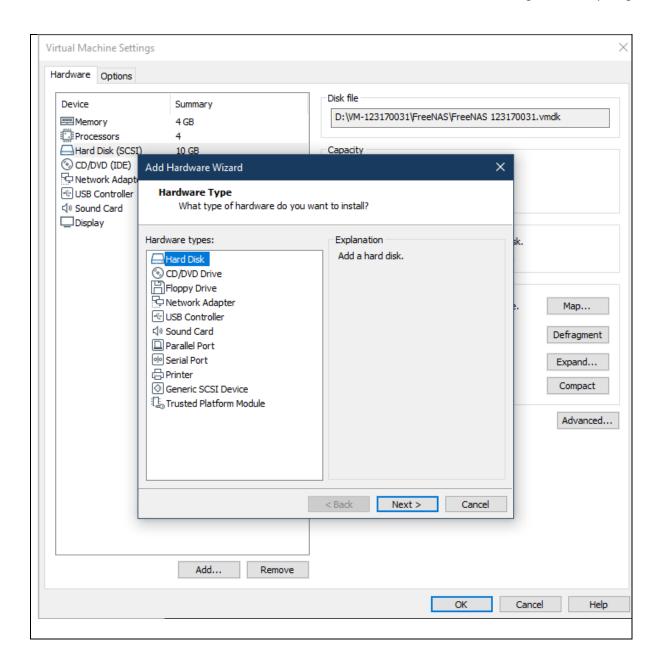
10. Tampilan hasil akhir booting yang menunjukkan Console Setup

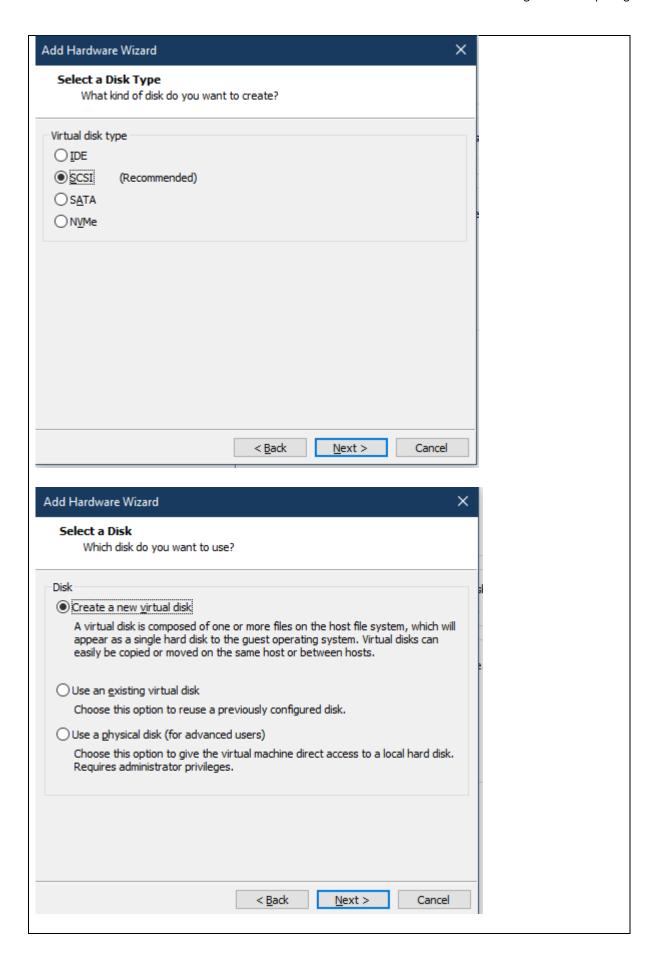
TUGAS BAGIAN KETIGA – KONFIGURASI FREENAS:

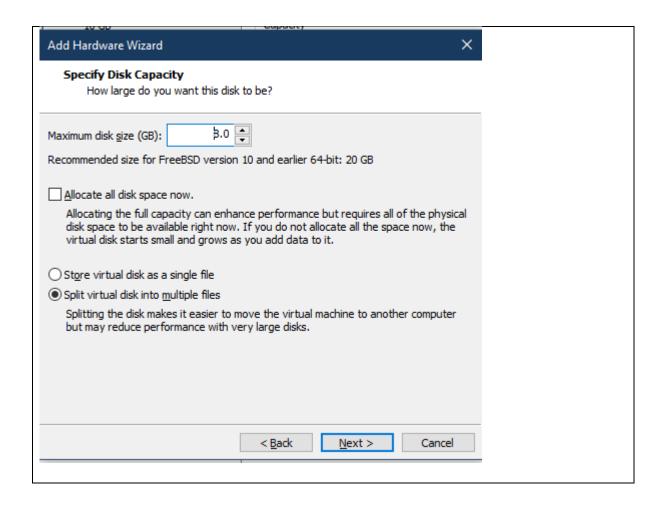
1. Tampilan dashboard setelah login FreeNAS

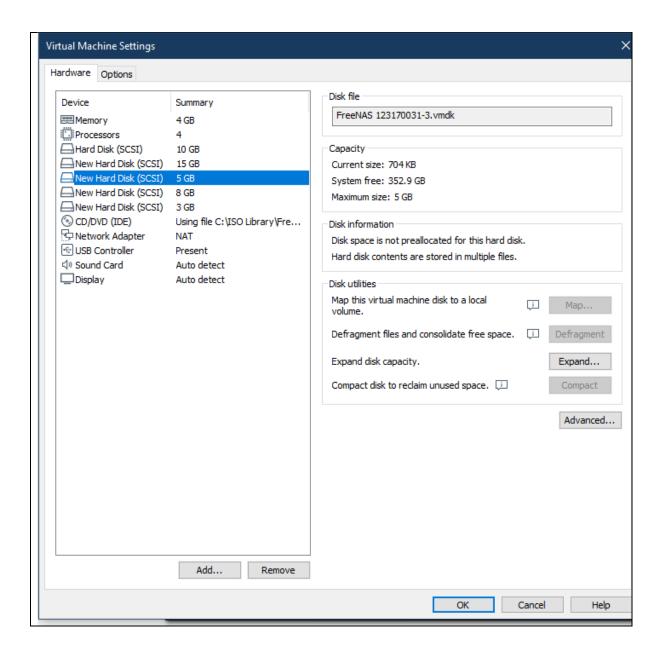


2. Tampilan konfigurasi VM pada Eksperimen #1

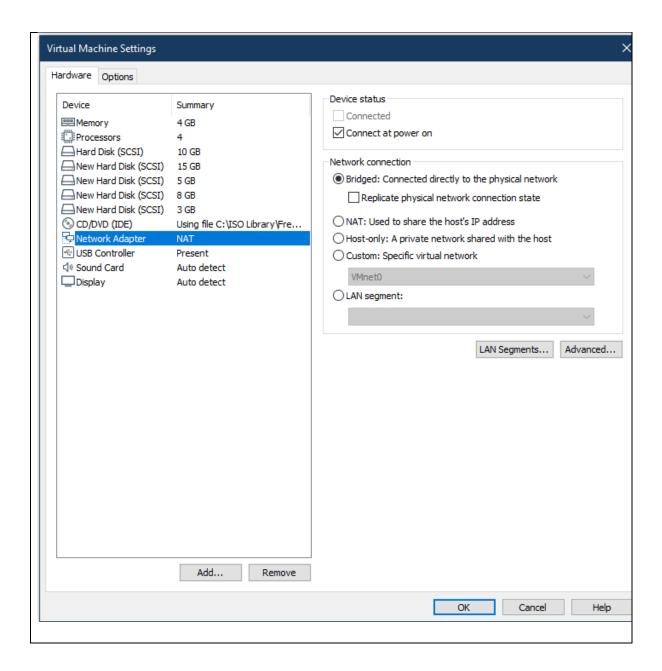






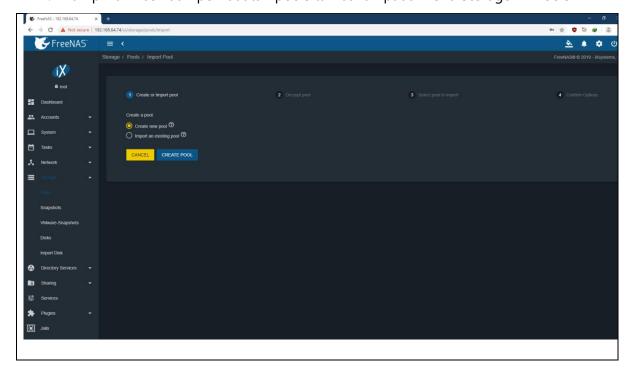


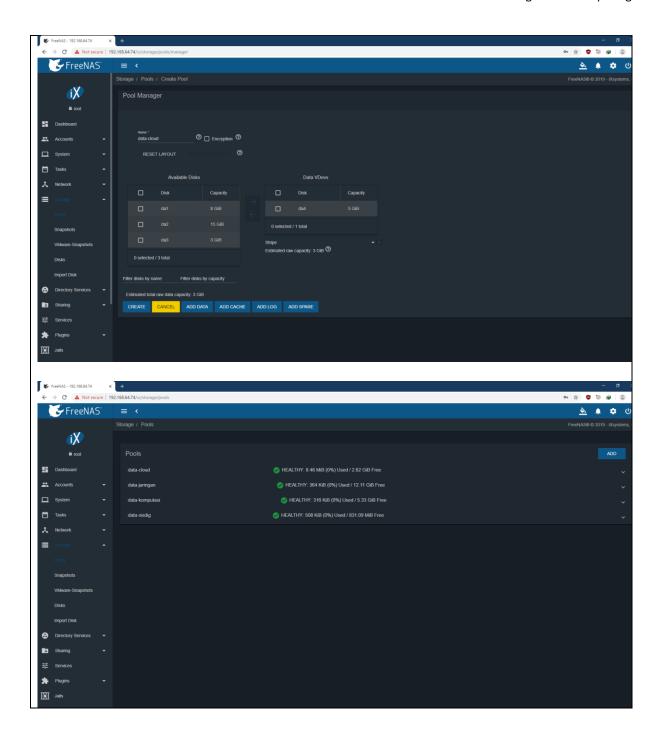
3. Tampilan IP pada dashboard Console Setup pada Eksperimen #2



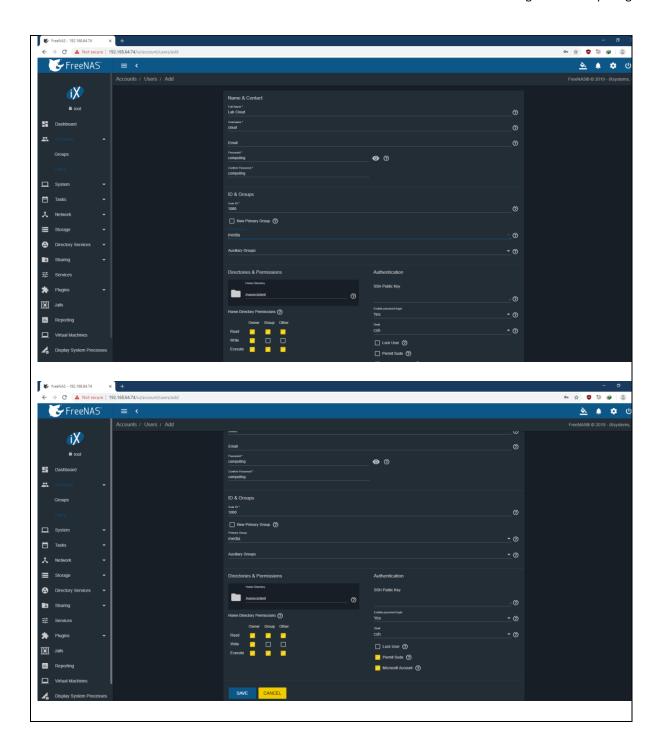
```
Tue Mar 3 23:10:55 PST 2020
FreeBSD/amd64 (freenas.local) (ttyv0)
Console setup
1) Configure Network Interfaces
2) Configure Link Aggregation3) Configure VLAN Interface
4) Configure Default Route
5) Configure Static Routes
6) Configure DNS
7) Reset Root Password
8) Reset Configuration to Defaults
9) Shell
10) Reboot
11) Shut Down
The web user interface is at:
http://192.168.64.74
Enter an option from 1-11: ■
```

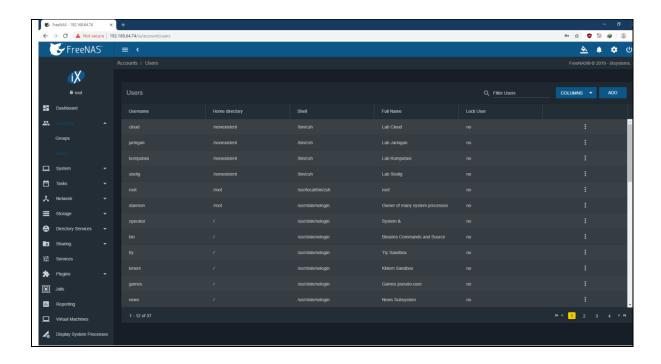
4. Tampilkan hasil dari pembuatan pools tambahan pada menu Storage -> Pools



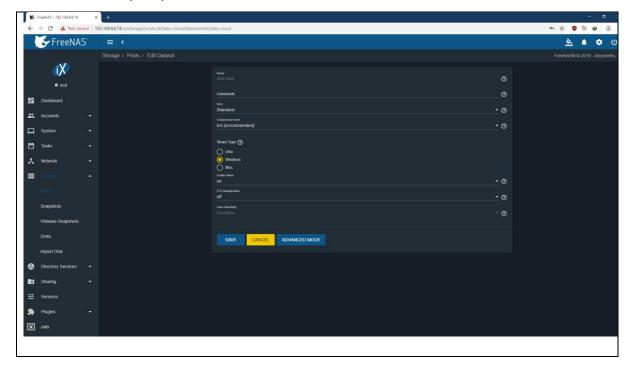


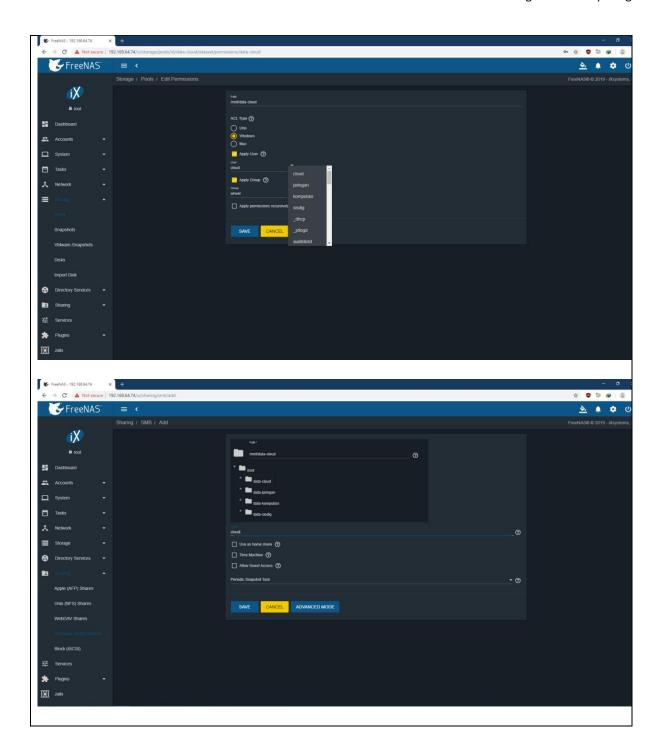
5. Tampilkan hasil dari pembuatan user tambahan pada menu Accounts -> Users

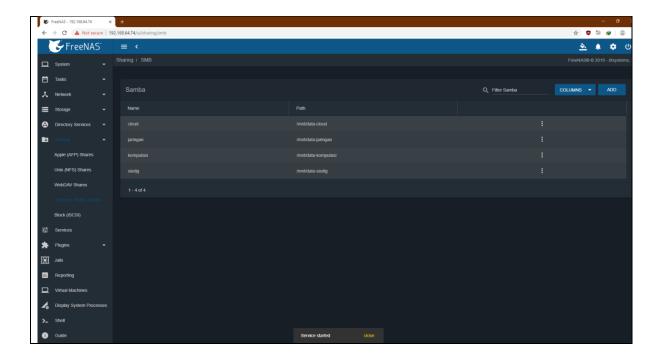




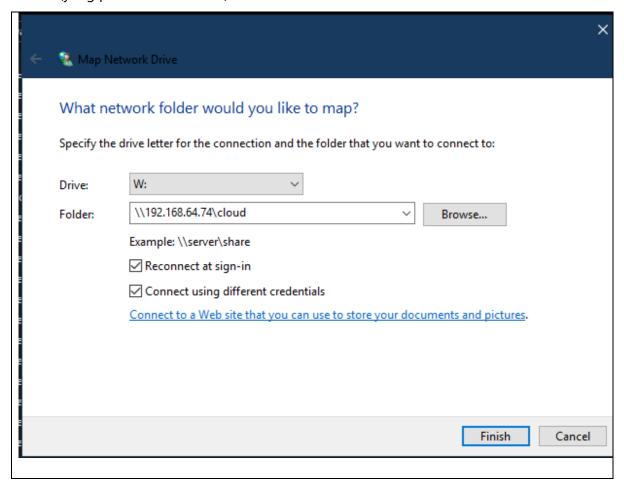
6. Tampilkan hasil dari pembuatan shares tambahan untuk 4 lab pada menu Sharing -> Windows (SMB) Shares

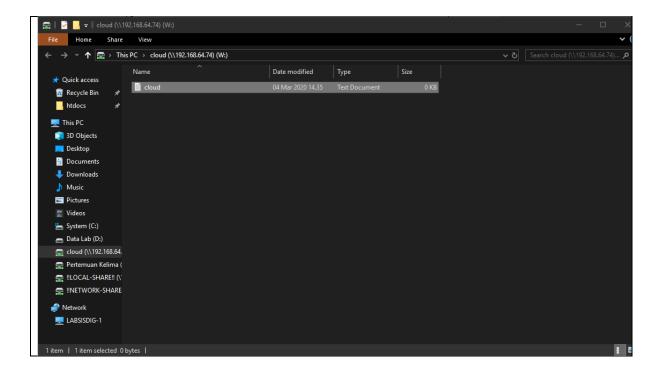




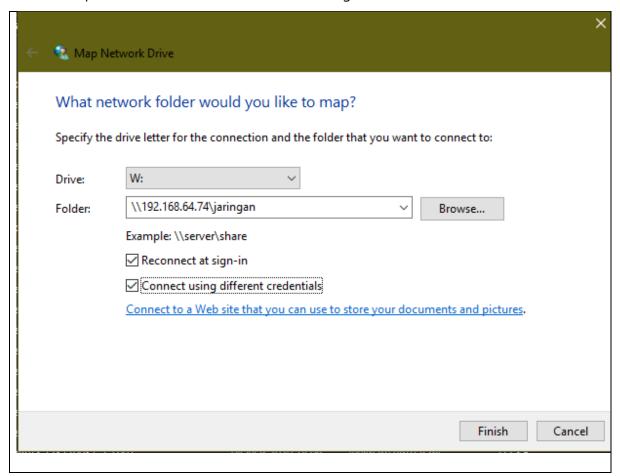


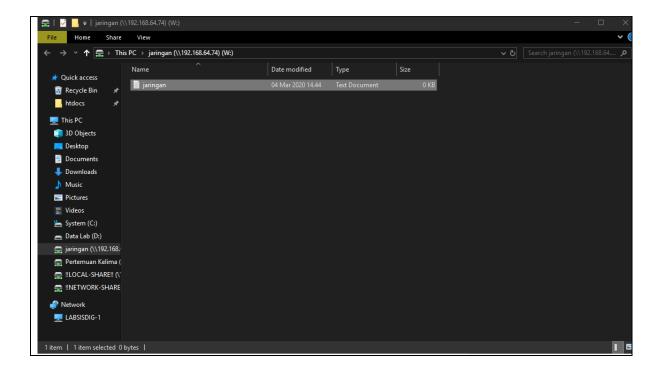
7. Tampilkan hasil akses shares pada Windows Explorer (hasil mapping) untuk Lab Cloud (yang pertama kali dibuat)



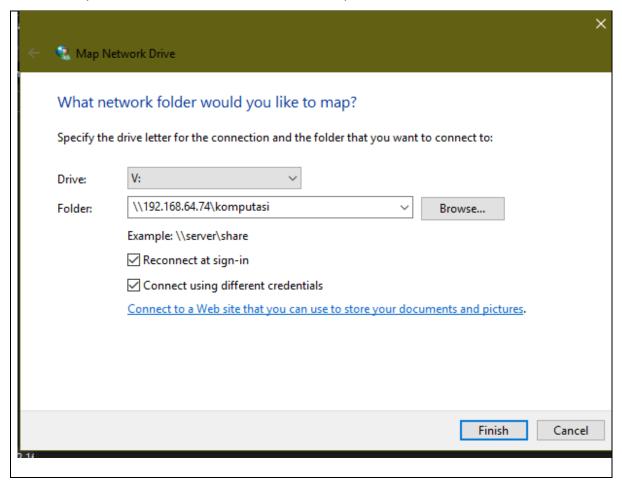


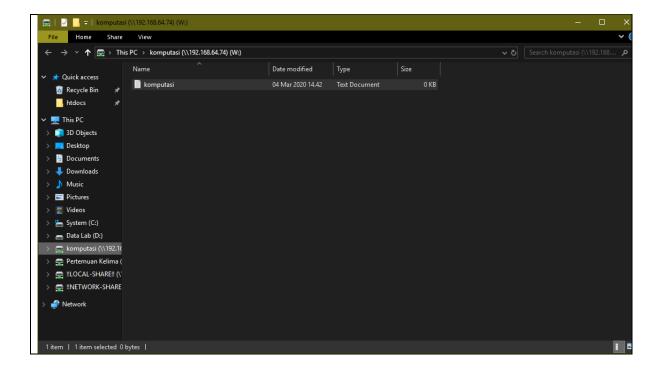
8. Tampilkan hasil akses shares untuk Lab Jaringan



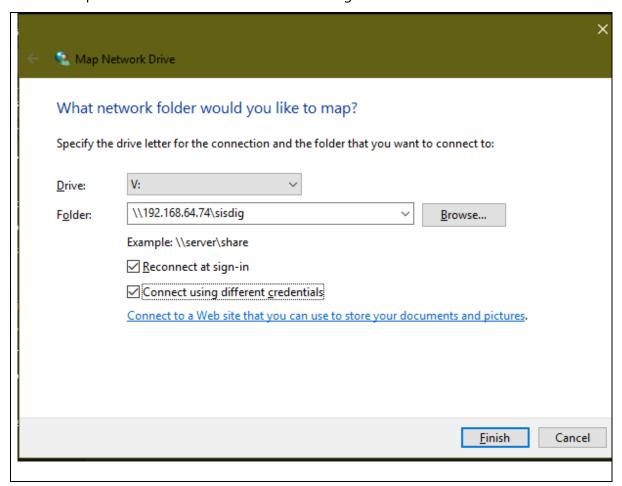


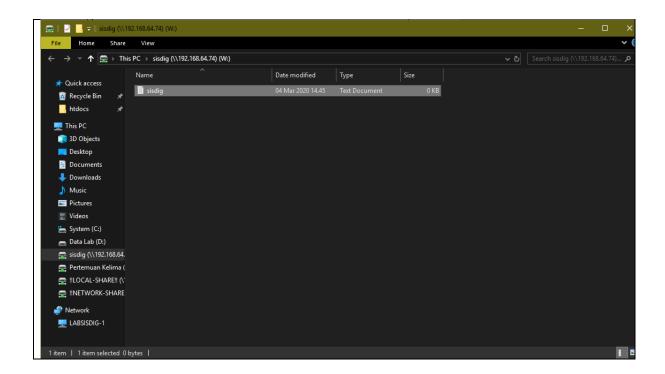
9. Tampilkan hasil akses shares untuk Lab Komputasi





10. Tampilkan hasil akses shares untuk Lab Sisdig





DOKUMENTASI PERTEMUAN KELIMA (BILA ADA)

Storage Technologies

 $DAS(Direct\ Attached\ Network) \boldsymbol{\rightarrow} SAN(Storage\ Area\ Network) \boldsymbol{\rightarrow} NAS(Network\ Attached\ Storage)$