

LEMBAR KERJA PRAKTIKUM CLOUD COMPUTING

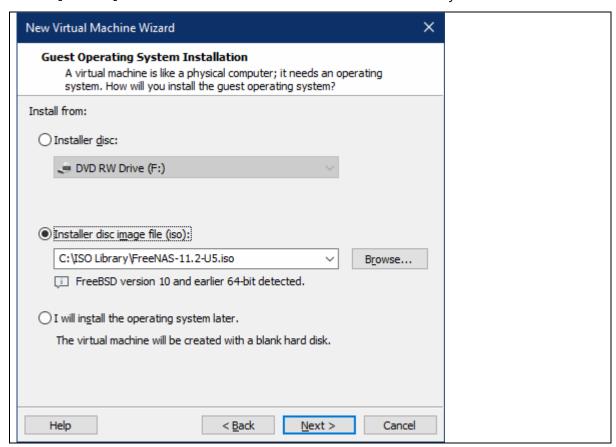
INSTALASI DAN KONFIGURASI LAYANAN FILE SHARING DENGAN FREENAS

IDENTITAS:

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NIM:	123180027
Kelas:	D
Hari, Tanggal:	Jumat, 06 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

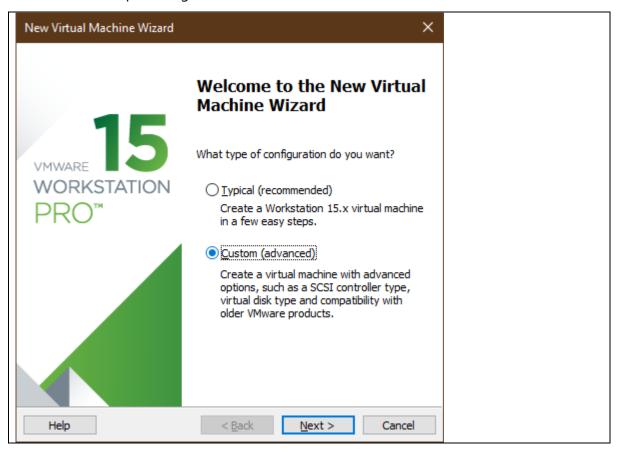
Perintah exit digunakan untuk keluar dari sesi akun aktif

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

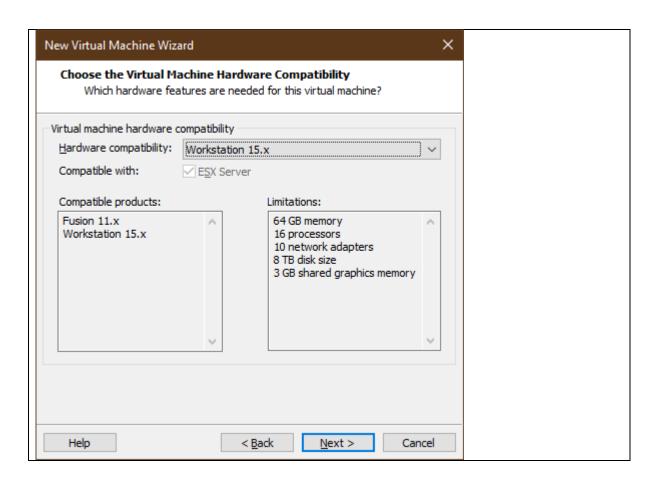


TUGAS BAGIAN PERTAMA – PEMBUATAN VM:

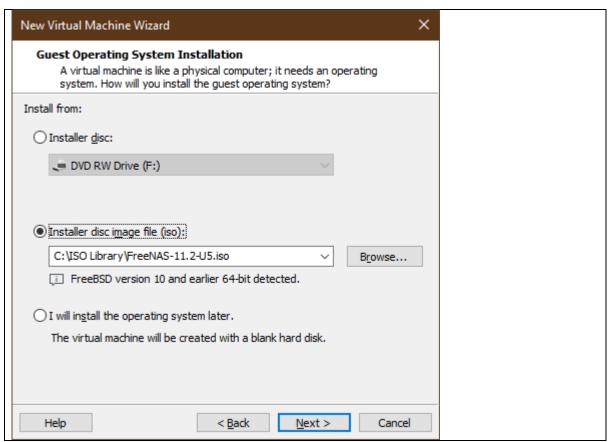
1. Gunakan opsi konfigurasi Custom



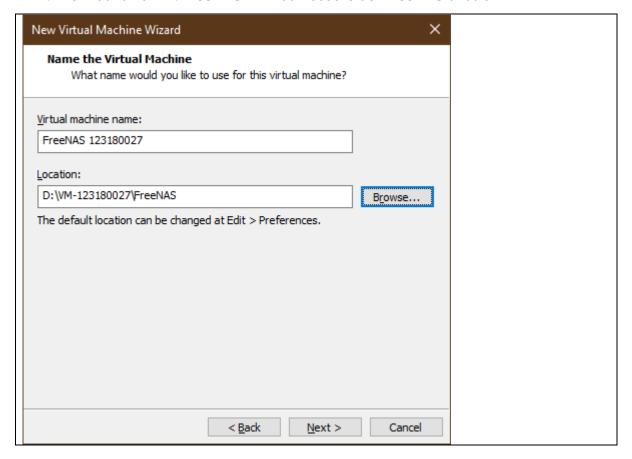
2. Gunakan compatibility Workstation 15.X



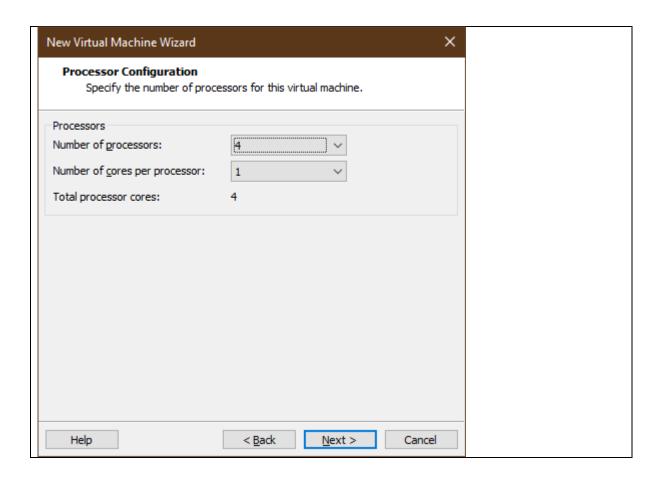
3. Gunakan ISO FreeNAS-11.2-U5 di folder ISO Library



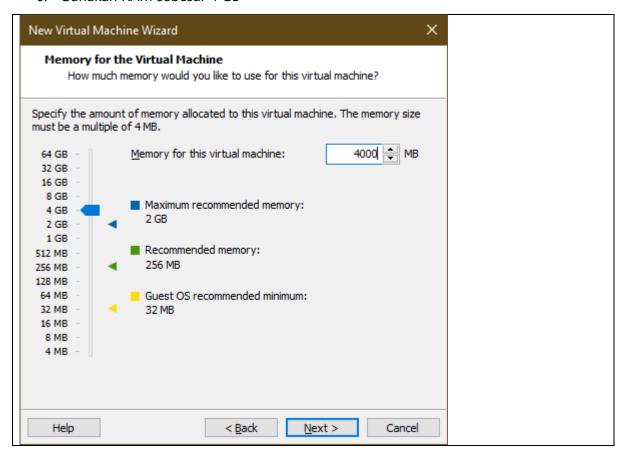
4. Format nama VM: FreeNAS NIM dan buat folder FreeNAS di dalam VM-NIM



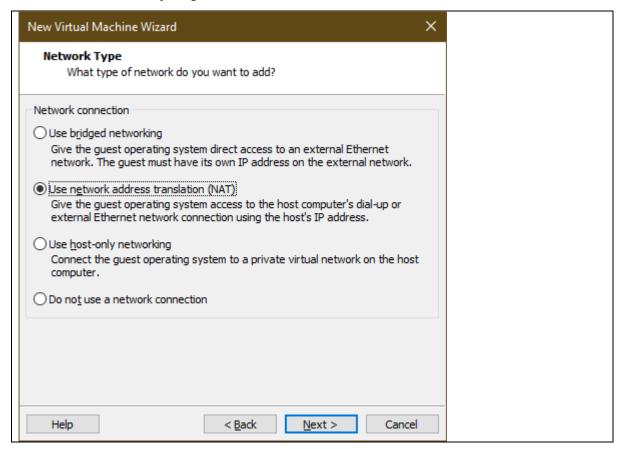
5. Gunakan 4 processor dan 1 core



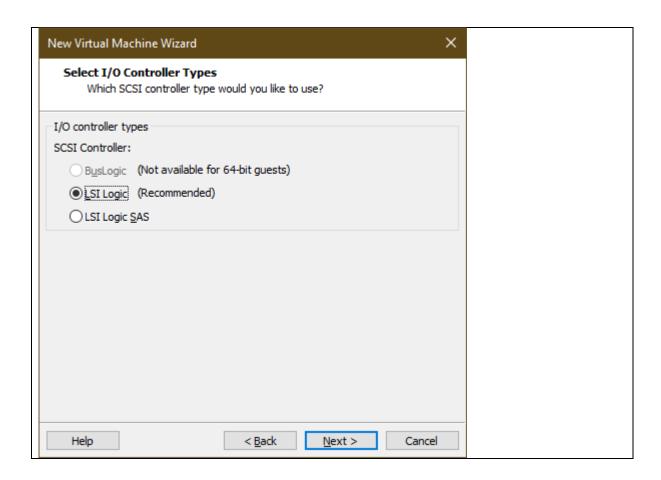
6. Gunakan RAM sebesar 4 GB



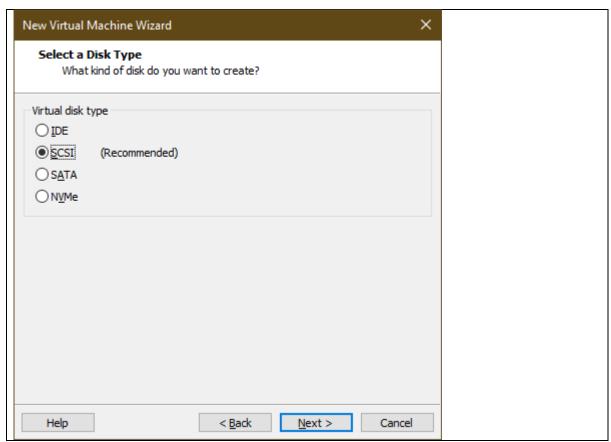
7. Gunakan mode jaringan NAT



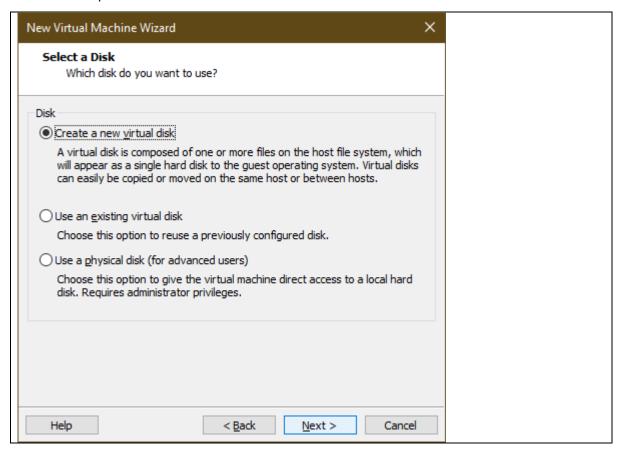
8. Gunakan pengaturan default I/O Controller



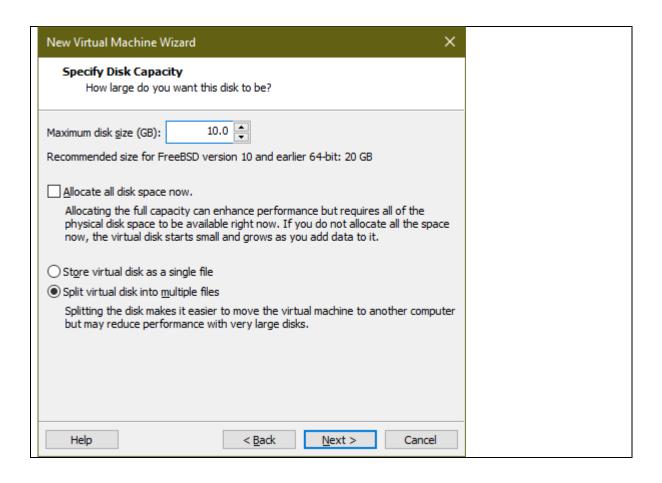
9. Gunakan pengaturan default Virtual Disk Type



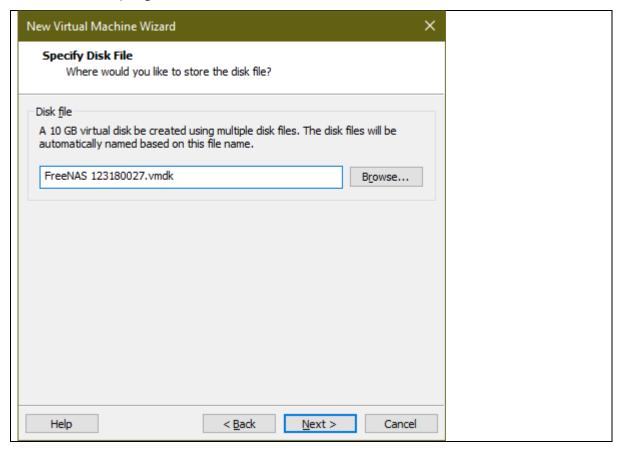
10. Pilih opsi buat virtual disk baru



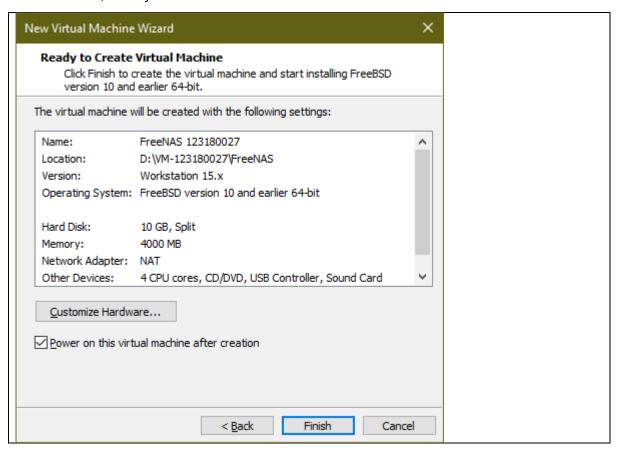
11. Buat disk untuk sistem sebesar 10 GB dengan mode Split dan hilangkan checklist allocate disk



12. Gunakan pengaturan default untuk nama disk

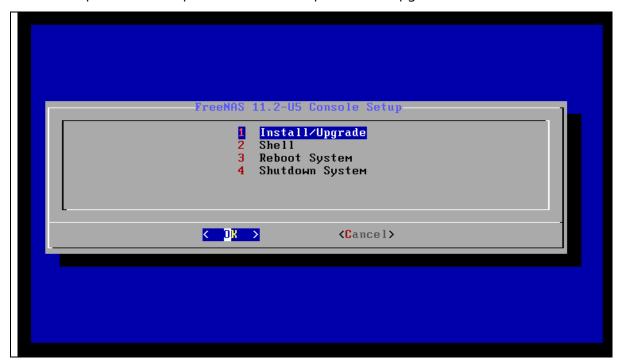


13. Tampilkan tangkapan layar dari ringkasan konfigurasi Virtual Machine (tahap akhir Wizard) lalu nyalakan VM

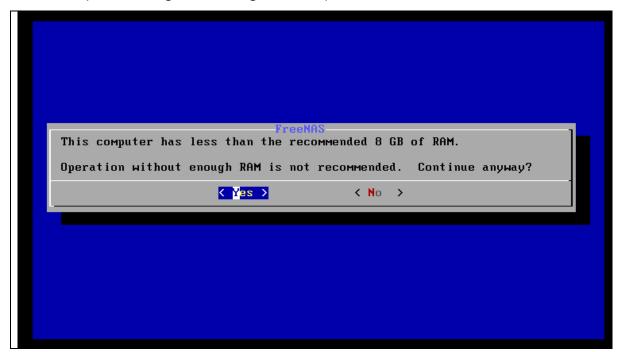


TUGAS BAGIAN KEDUA – INSTALASI FREENAS:

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



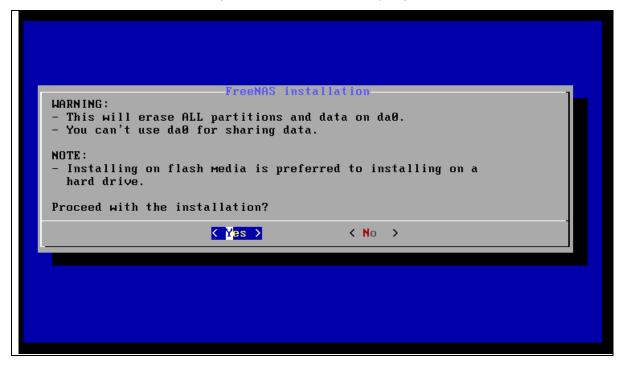
2. Tampilan warning RAM kurang dari 8GB, pilih Yes



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



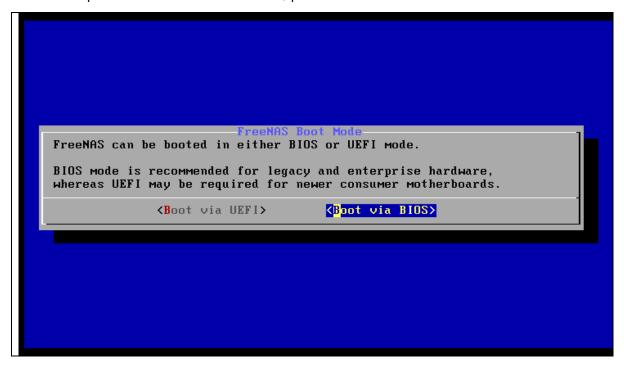
4. Tampilan konfirmasi penghapusan/format media yang terpilih, pilih Yes



5. Tampilan pengaturan kata sandi, gunakan NIM atau bebas



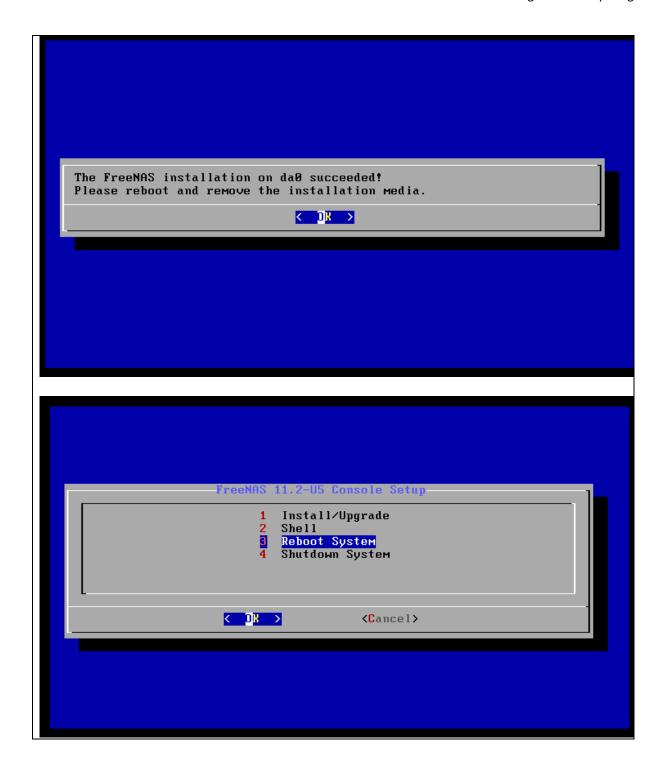
6. Tampilan mode boot dari FreeNAS, pilih BIOS



7. Tampilan proses instalasi FreeNAS

```
2+0 records in
2+0 records out
2097152 bytes transferred in 0.041578 secs (50438498 bytes/sec)
dd: /dev/da0: end of device
3+0 records in
2+0 records out
2097152 bytes transferred in 0.006119 secs (342704262 bytes/sec)
da0 created
da0p1 added
da0p2 added
gmirror: Invalid class name.
da0 destroyed
da0 created
da0p1 added
da0p2 added
active set on da0
Installing base-os (1 of 4)
....10....20....30....40....50....
   ./spool/lpd missing (created)
./spool/mqueue missing (created)
./spool/opielocks missing (created)
   ./spool/output missing (created)
./spool/output/lpd missing (created)
    ./tmp missing (created)
   ./tmp/vi.recover missing (created)
./unbound missing (created)
    ./unbound/conf.d missing (created)
    ./yp missing (created)
   ELF ldconfig path: /lib /usr/lib /usr/lib/compat /usr/local/lib /usr/local/lib/e 2fsprogs /usr/local/lib/nss /usr/local/lib/per15/5.26/mach/CORE /usr/local/lib/s
   амва4
   32-bit compatibility ldconfig path:
   Stamping GPT loader on: da0 da0p1 modified
   partcode written to da0p1
bootcode written to da0
   Changing password for root
   Password successfully changed.
```

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



9. Tampilan proses booting menuju FreeNAS OS

```
₩elcome to FreeNAS=
          Boot FreeNAS [Enter]
                                                               +mmdhs/.
                                                                              ,.:+sydmNMm
      2. Boot FreeNAS (Serial Console)
                                                               hMMMMMdydNMMMMMMM:
                                                                уММММММММММММИ
                                                               /МММММММММММММho.
      Options:
       3. Configure Boot Options...
                                                               4. Select Boot Environment...
                                                               mmmmmmmmms./ymmmmmmmy-
                                                                                        '. оММм-
                                                               : иммиммиммиммиммиммим.
                                                                -MMMMMMMMMMmo/:/yNMh.
                                                                . mhdMMMMMMMMMMMh/
+' '+ymMMMMMMNmy+'
 /boot/kernel/kernel text=0x160c8f0 ∠
 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, loggi
ng disabled
ugen1.1: <0×15ad EHCI root HUB> at usbus1
uhub0: \langle 0x15ad EHCI root HUB, class 9/0, rev 2.00/1.00, addr 1\rangle on usbus1 ugen0.1: \langle 0x15ad UHCI root HUB\rangle at usbus0
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 ugen0.3: <vendor 0x0e0f VMware Virtual USB Hub> at usbus0
uhub2 on uhub1
uhub2: <VMware Virtual USB Hub> on usbus0
uhub0: 6 ports with 6 removable, self powered
uhub2: 7 ports with 7 removable, self powered
```

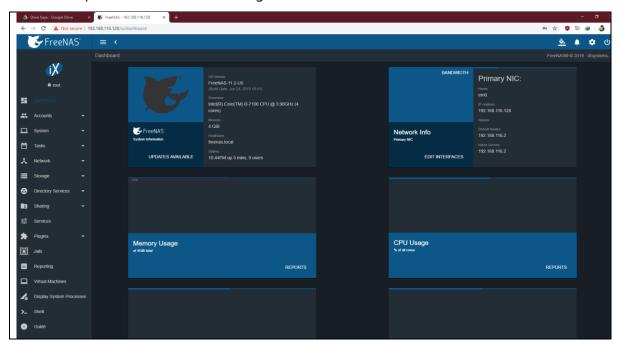
```
Beginning ZFS volume imports
 ZFS volume imports complete
Creating 'Initial-Install' boot environment...
 Created successfully
 ELF ldconfig path: /lib /usr/lib /usr/lib/compat /usr/local/lib /usr/local/lib/e 2fsprogs /usr/local/lib/nss /usr/local/lib/perl5/5.26/mach/CORE /usr/local/lib/s
 32-bit compatibility ldconfig path:
 Loading kernel modules:
pmc: Unknown Intel CPU.
 hwpmc: SOFT/16/64/0x67<INT,USR,SYS,REA,WRI>
Setting hostname: freenas.local.
Setting up harvesting: [UMA],[FS_ATIME],SWI,INTERRUPT,NET_NG,NET_ETHER,NET_TUN,M
 OUSE, KEYBOARD, ATTACH, CACHED
Feeding entropy: .
Loading vmmemctl kernel module: VMware memory control driver initialized
 Loading vmxnet kernel module: done.
Loading vmblock kernel module: done.
 Starting dhclient.
 DHCPDISCOVER on em0 to 255.255.255.255 port 67 interval 6
DHCPOFFER from 192.168.116.254
Updating motd:.
Mounting late filesystems:.
Starting ntpd.
Starting smartd_daemon.
Mar 6 05:42:10 freenas smartd[3122]: Configuration file /usr/local/etc/smartd.c
onf parsed but has no entries
Starting rrdcached.
0 semi-random bytes loaded
Generating DH parameters, 2048 bit long safe prime, generator 2
This is going to take a long time
```

10. Tampilan hasil akhir booting yang menunjukkan Console Setup

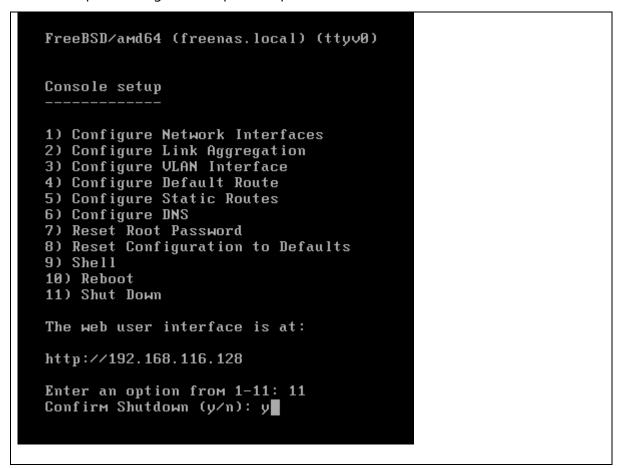
.....

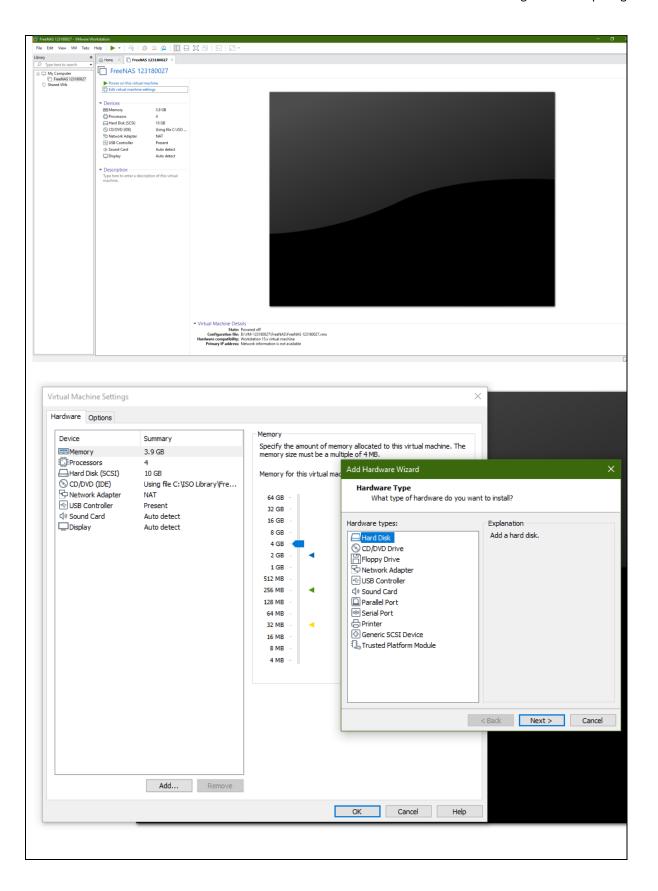
TUGAS BAGIAN KETIGA – KONFIGURASI FREENAS:

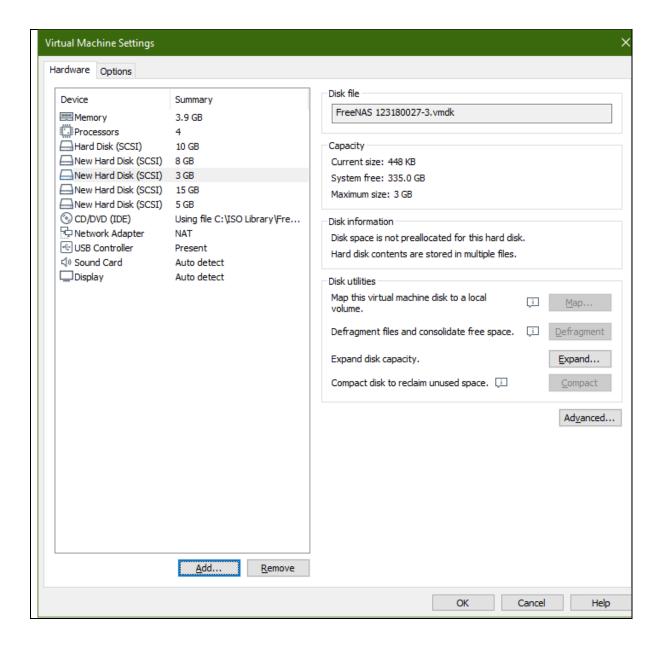
1. Tampilan dashboard setelah login FreeNAS



2. Tampilan konfigurasi VM pada Eksperimen #1



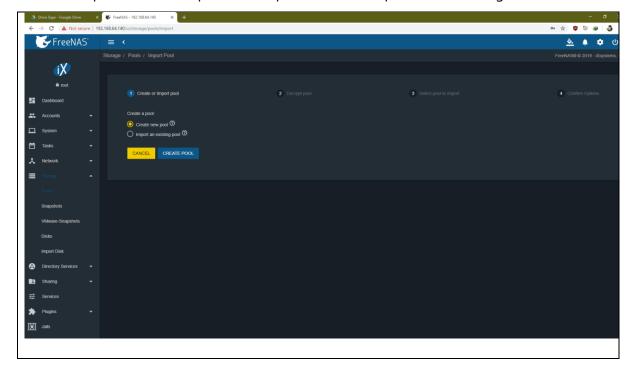


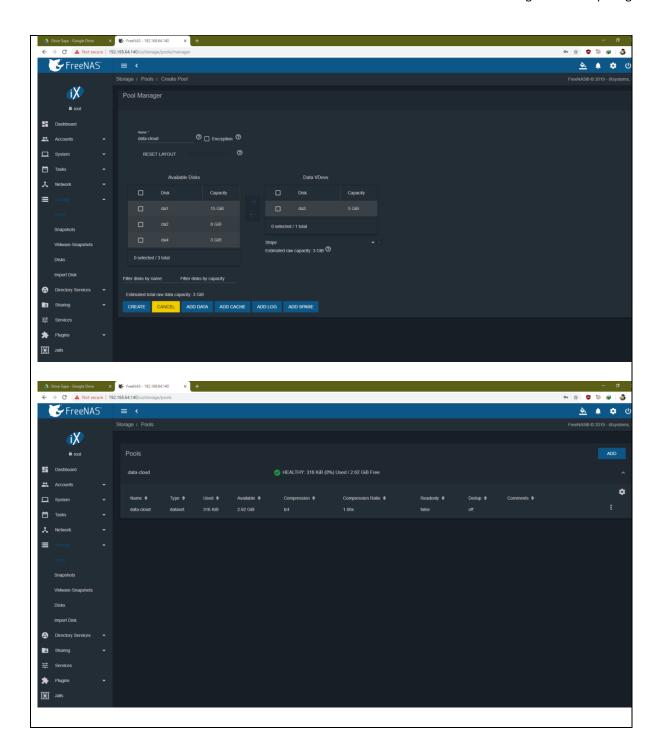


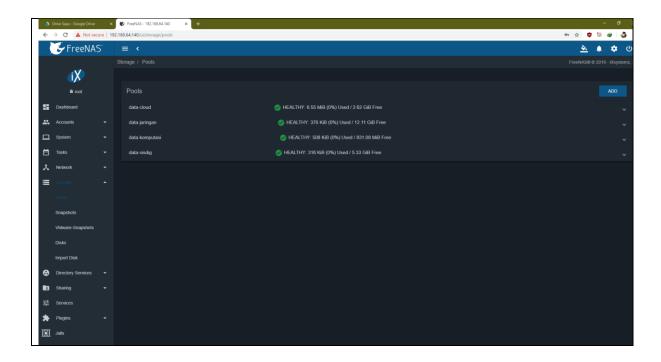
3. Tampilan IP pada dashboard Console Setup pada Eksperimen #2

```
Thu Mar 5 23:00:18 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://192.168.64.140
Enter an option from 1-11: ■
```

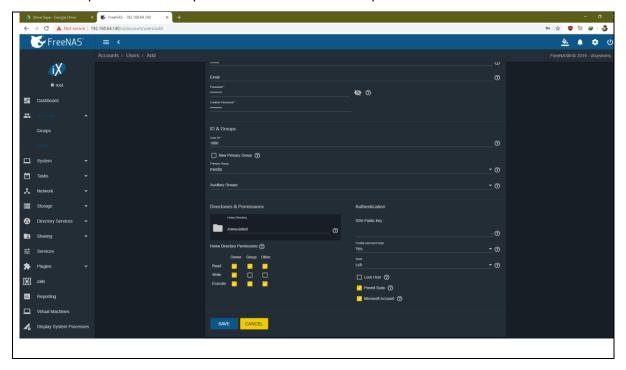
4. Tampilkan hasil dari pembuatan pools tambahan pada menu Storage -> Pools

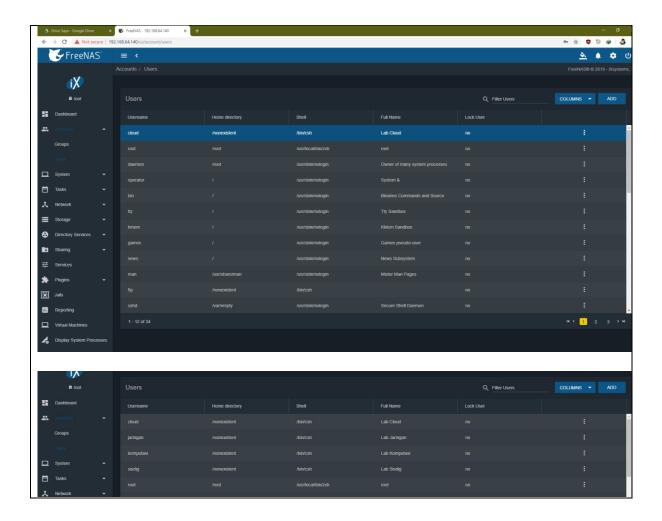




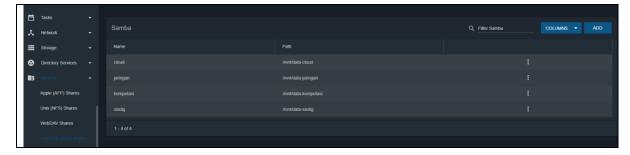


5. Tampilkan hasil dari pembuatan user tambahan pada menu Accounts -> Users

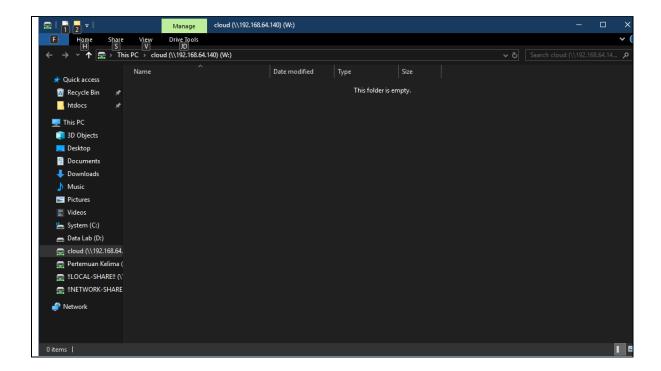




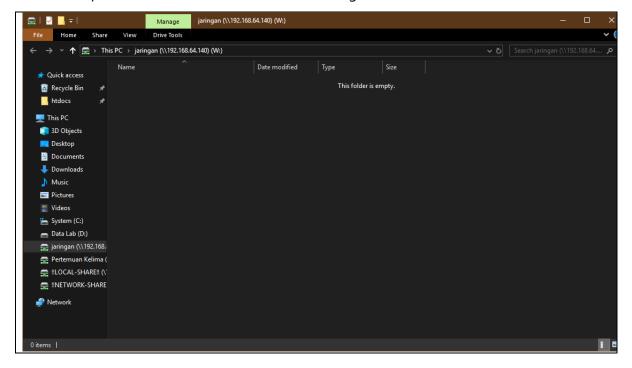
6. Tampilkan hasil dari pembuatan shares tambahan untuk 4 lab pada menu Sharing -> Windows (SMB) Shares



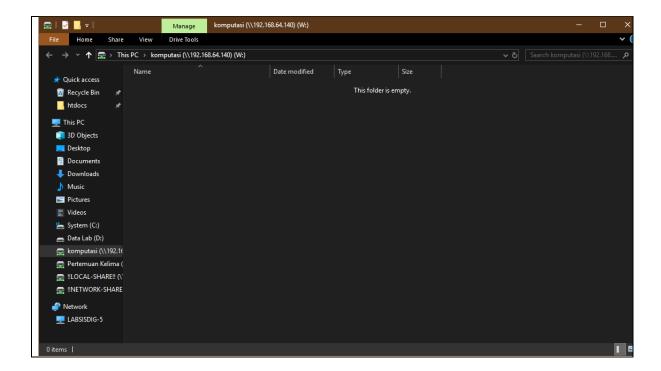
7. Tampilkan hasil akses shares pada Windows Explorer (hasil mapping) untuk Lab Cloud (yang pertama kali dibuat)



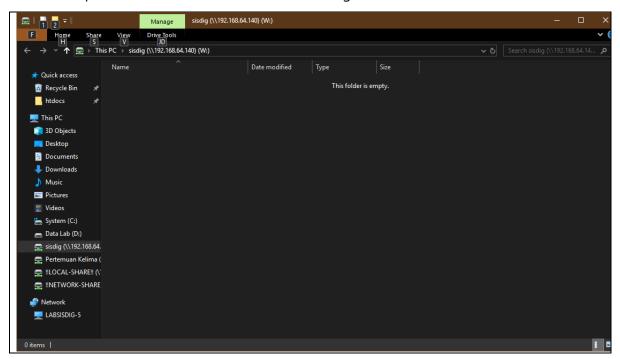
8. Tampilkan hasil akses shares untuk Lab Jaringan



9. Tampilkan hasil akses shares untuk Lab Komputasi



10. Tampilkan hasil akses shares untuk Lab Sisdig



DOKUMENTASI PERTEMUAN KELIMA (BILA ADA)