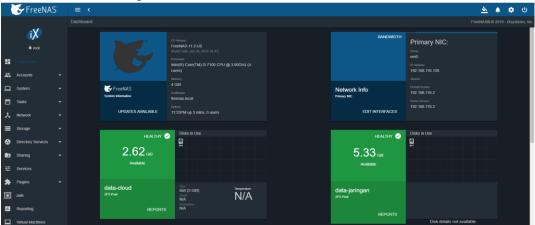
Nama: Muhamad Azam Fuadi

NIM : 123170059

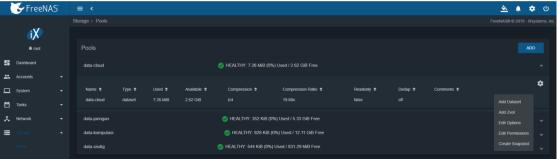
KONFIGURASI FREENAS LANJUTAN

➤ Konfigurasi S3 Bucket Service

1. Login Dashboard FreeNas dengan mengakses IP pada browser, lalu login dengan username "root" dan password = NIM untuk masuk ke dashboard



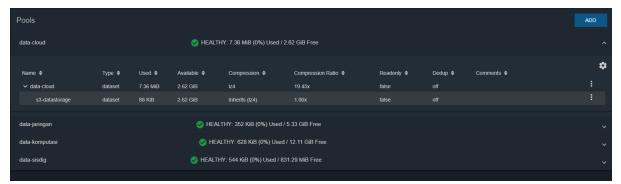
2. Masuk menu "Storage Pool". Pada pool "data-cloud" buka menu options, kemudian pilih "Add Dataset".



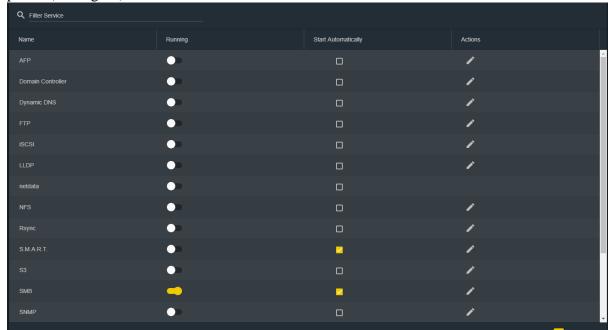
3. Buat dataset baru dengan nama "s3-datastorage" kemudian save.



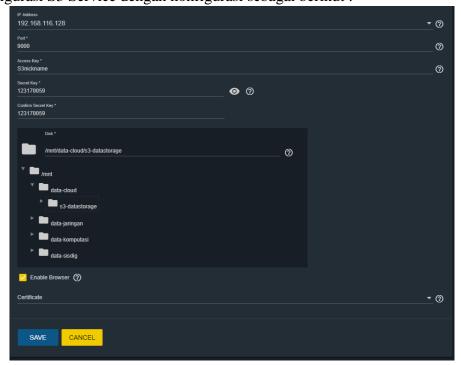
4. Berikut merupakan tampilan dataset yang telah dibuat



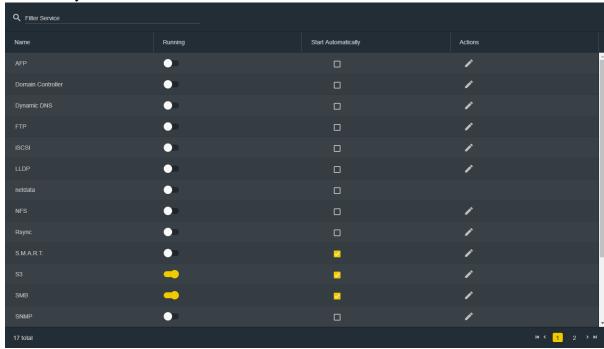
5. Masuk ke menu services. Kemudian cari service dengan nama S3. Klik pada icon pensil (Configure)



6. Konfigurasi S3 Service dengan konfigurasi sebagai berikut :



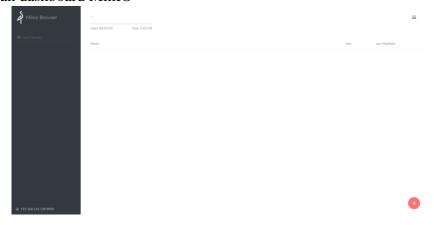
7. Aktivasi layanan S3



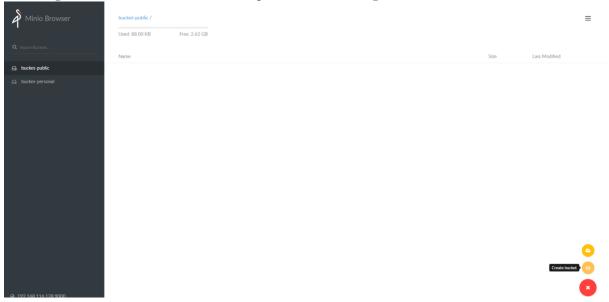
8. Akses layanan S3 dengan MinIO Web Based. Dengan cara : http://IP:9000 gunakan access key dan password yang sebelumnya



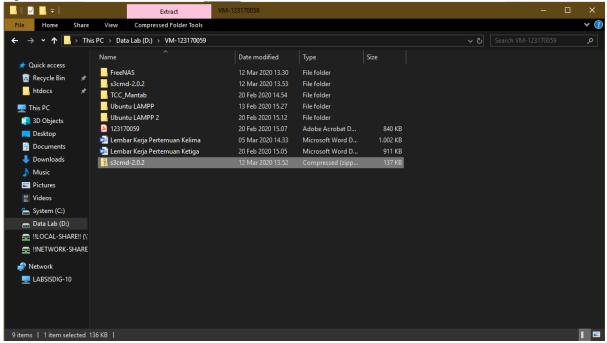
9. Tampilan dashboard MinIO



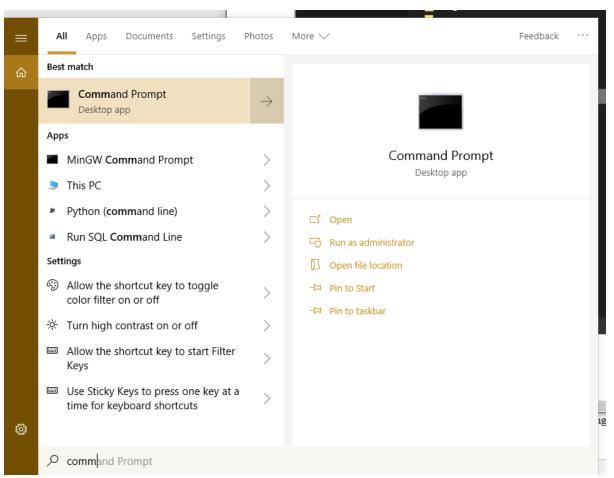
10. Pada bagian bawah, klik tombol add, kemudian pilih create bucket. Beri nama **bucket-personal** dan buat kembali dengan nama **bucket-public**



11. Mencoba s3cmd untuk upload data. Buka situs http://link.upnyk.ac.id/s3cmd atau https://s3tools.org/download kemudian unduh paket aplikasi s3cmd dalam bentuk zip. Ekstrak dalam folder "VM-NIM"



12. Install s3cmd dengan python. Buka command prompt dengan elevated previleges (run as admin)



13. Working directory folder ke folder s3 yang diunduh kemudian lakukan installasi

```
Administrator. Command Prompt

— X

Microsoft Windows [Version 10.0.17763.678]
(c) 2018 Microsoft Corporation. All rights reserved.

C:\Windows\system32>D:

D:\vd VM-123170059

D:\vM-123170059\cd s3cmd-2.0.2

D:\vM-123170059\s3cmd-2.0.2>python setup.py install
```

14. Hasil setelah proses instalasi

```
Processing python_magic-0.4.15-py2.py3-none-any.whl
Installing python_magic-0.4.15-py2.py3-none-any.whl to c:\program files (x86)\python37-32\lib\site-packages Adding python-magic 0.4.15 be assy-install.pth file

Installed c:\program files (x86)\python37-32\lib\site-packages\python_magic-0.4.15-py3.7.egg
Searching for python-dateutil
Reading https://ppi.org/simple/python-dateutil/
Downloading https://files.pythonhosted.org/packages/d4/70/d60450c3dd48ef87586924207ae8907090de0b306af2bce5d134d78615cb/python_dateutil-2.8.1-py2.py3-none-any.whl#sha256=75bb3f31ea686f1197762692a9ee6a7550b59fc6ca3a1f4b5d7e32fb98e2da2a
Best match: python-dateutil 2.8.1
Processing python_dateutil-2.8.1-py2.py3-none-any.whl to c:\program files (x86)\python37-32\lib\site-packages
writing requirements to c:\program files (x86)\python37-32\lib\site-packages\python_dateutil-2.8.1-py3.7.egg\tegG-INFO\req
uires.txt
Adding python-dateutil 2.8.1 to easy-install.pth file

Installed c:\program files (x86)\python37-32\lib\site-packages\python_dateutil-2.8.1-py3.7.egg
Searching for six=1.5
Reading https://ppi.org/simple/six/
Downloading https://ppi.org/simple/six/
Downloading https://files.pythonhosted.org/packages/65/eb/1f97cb97bfc2390a276969c6fae16075da282f5058082d4cb10c6c5c1dba/s
ix-1.14.0-py2.py3-none-any.whl#sha256=8f3cd2e254d8f793e7f3d6d9df77b92252b52637291d0f0da013c76ea2724b6c
Best match: six 1.14.0
Processing six-1.14.0-py2.py3-none-any.whl to c:\program files (x86)\python37-32\lib\site-packages
Adding six 1.14.0 e oasy-install.pth file

Installing six-1.14.0-py2.py3-none-any.whl to c:\program files (x86)\python37-32\lib\site-packages
Finished processing dependencies for s3cmd=-2.0.2

D:\VM-123170059\s3cmd-2.0.2>
```

15. Konfigurasi s3cmd. Ketikkan perintah python s3cmd -configure

```
D:\VM-123170059\s3cmd-2.0.2>python s3cmd --configure
```

16. Parameter Konfigurasi Isikan Access Key dengan "S3nickname" dan secret key dengan "123170059". kososngkan region. Untuk Endpoint isikan "192.168.116.128:9000" kosongkan bucket, encryption, dan GPG. Pada bagian https isikan "No." kososngkan bagian proxy. Selanjutnya pilih "Y" dan save settings pilih "Y"

```
Enter new values or accept defaults in brackets with Enter.
Refer to user manual for detailed description of all options.

Access key and Secret key are your identifiers for Amazon S3. Leave them empty for using the env variables.
Access key: S3nickname
Secret key: 123170859
Default Region [US]:

Use "S3.amazonaws.com" for S3 Endpoint and not modify it to the target Amazon S3.
S3 Endpoint [s3.amazonaws.com" to the target Amazon S3. "%(bucket)s" and "%(location)s" vars can be used if the target S3 system supports dns based buckets.
DNS-style bucket+hostname:port template for accessing a bucket [%(bucket)s.s3.amazonaws.com]:
Encryption password is used to protect your files from reading by unauthorized persons while in transfer to S3 Encryption password:
Path to GPG program:
When using secure HTTPS protocol all communication with Amazon S3 servers is protected from 3rd party eavesdropping. This method is slower than plain HTTP, and can only be proxied with Python 2.7 or newer
Use HTTPS protocol [Yes]: No
On some networks all internet access must go through a HTTP proxy.
Try setting it here if you can't connect to S3 directly
HTTP Proxy server name:
New settings:
```

17. Tampilan setelah selesai

```
Slower than plain HTTP, and can only be proxied with Python 2.7 or newer

Use HTTPS protocol [Yes]: No

On some networks all internet access must go through a HTTP proxy.

Try setting it here if you can't connect to S3 directly

HTTP Proxy server name:

New settings:

Access Key: S3nickname
Secret Key: 123170059

Default Region: US
S3 Endpoint: 192.168.116.128:9000

DNS-style bucket+hostname:port template for accessing a bucket: %(bucket)s.s3.amazonaws.com
Encryption password:
Path to GPG program: None
Use HTTPS protocol: False
HTTP Proxy server name:
HTTP Proxy server port: 0

Test access with supplied credentials? [Y/n] Y
Please wait, attempting to list all buckets...
Success. Your access key and secret key worked fine :-)

Now verifying that encryption works...
Not configured. Never mind.

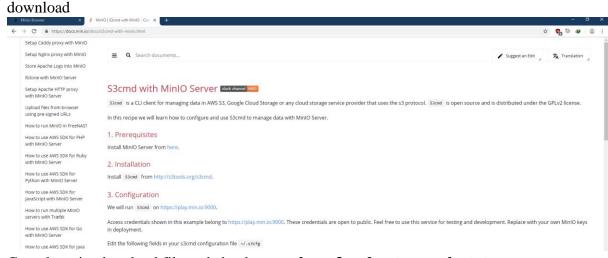
Save settings? [y/N] y
Configuration saved to 'C:\Users\Lab Informatika\AppData\Roaming\s3cmd.ini'

D:\WM-123170059\s3cmd-2.0.2>
```

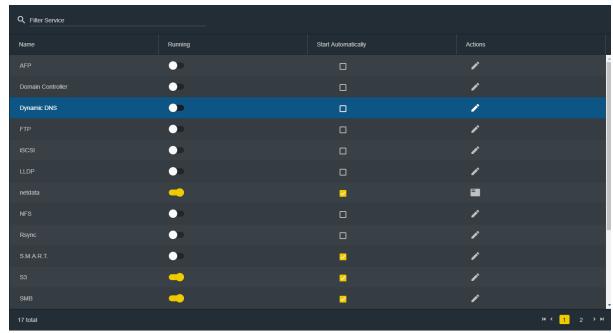
18. Mencoba perintah s3cmd. Pada jendela cmd ketikkan **python s3cmd ls** untuk melisting isi dari bucket 23 pada freenas

```
D:\VM-123170059\s3cmd-2.0.2>python s3cmd 1s
2020-03-12 06:50 s3://bucket-personal
2020-03-12 06:50 s3://bucket-public
D:\VM-123170059\s3cmd-2.0.2>
```

19. Dokumentasi s3cmd dapat dilihat pada dokumentasi yang dapat diakses melalui https://docs.min.io/docs/s3cmd-with-minio.html cobalah sintaks upload dan



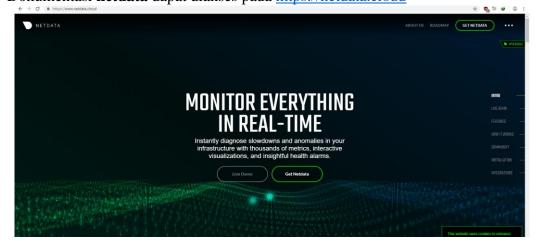
- 20. Contoh perintah upload file pada bucket : **python s3cmd put mencoba.txt s3//bucket-personal**
- Monitoring dengan net data service. KONFIGURASI NET DATA
 - 1. Login kembali pada FreeNas
 - 2. Masuk menu services, cari nama service dengan nama **netdata**
 - 3. Aktifkan dan jangan lupa checklist pada bagian **Start Automatically.** Kemudian klik pada **actions** > **launch**



4. Tampilan **netdata** dapat juga diakses dengan https://IP/netdata



5. Dokumentasi **netdata** dapat diakses pada https://netdata.cloud



> Jails dengan Transmission

- 1. Login dashboard FreeNas
- 2. Masuk Bagian services
- 3. Lanjutannya dapat dicari di youtube