Nama: Rafi Haffiyan

NIM : 123170086

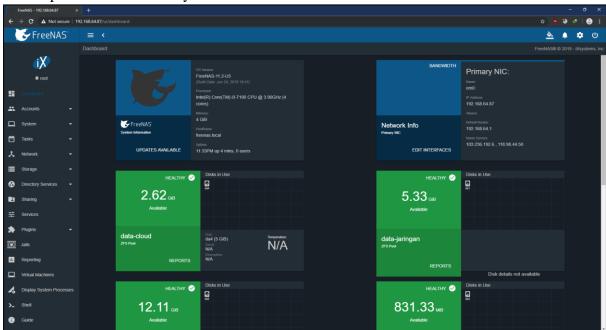
**Praktikum Cloud Computing** 

#### S3 Bucket Service

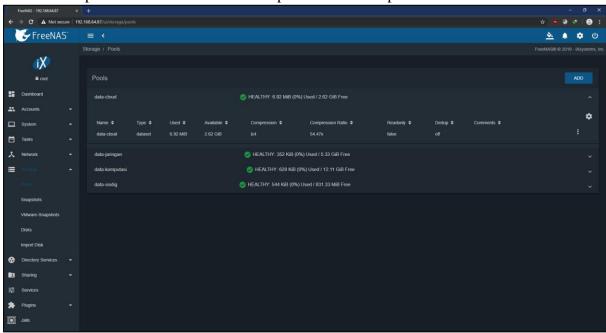
Protokol penyimpanan berbaiskan obyek yang telah digunakan oleh banyak vendor cloud computing, contohnya Amazon Web Service.

### KONFIGURASI S3 BUCKET SERVICE

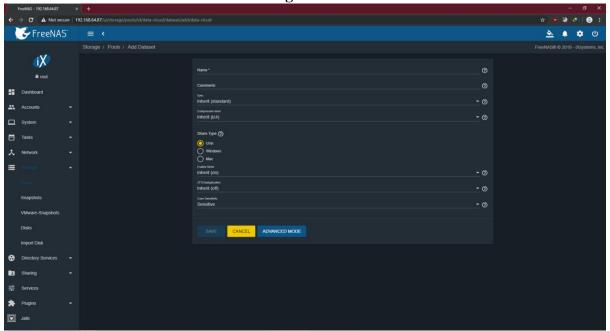
Login Dashboard FreeNAS
 Gunakan kombinasi username root dan password yang telah ditentukan pada pertemuan sebelumnya



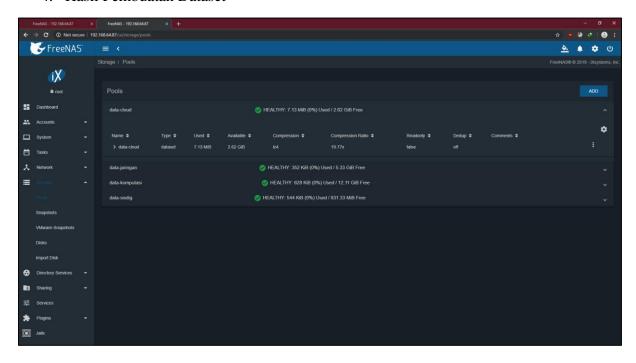
Masuk menu storage pool
 Pada pool data-cloud buka menu options kemudian pilih Add Dataset



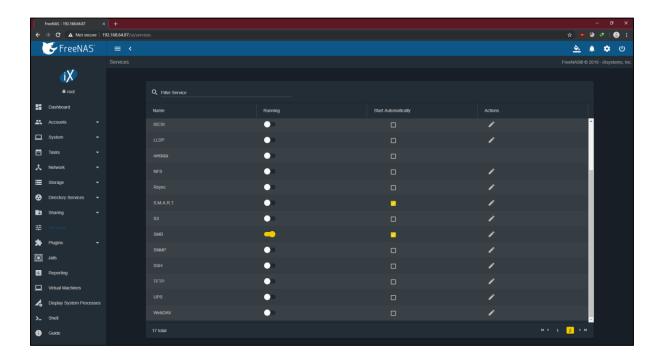
3. Buat Dataset baru Gunakan nama dataset **s3-datastorage** kemudian **save** 



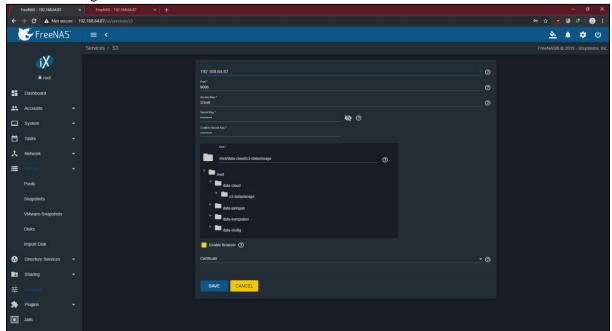
### 4. Hasil Pembuatan Dataset



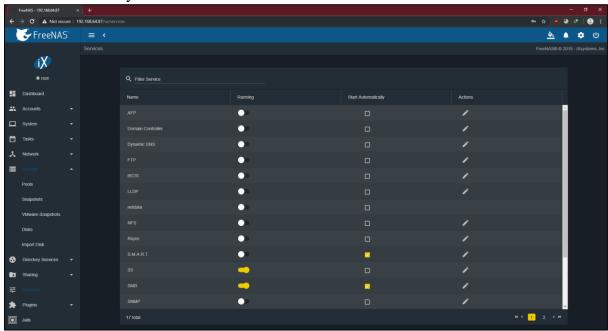
5. Masuk ke Menu Services Kemudian cari service dengan nama S3, klik pada gambar ikon pensil (Configure)



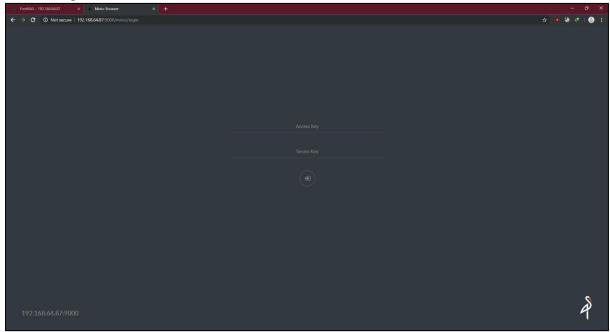
6. Konfigurasi S3 Service



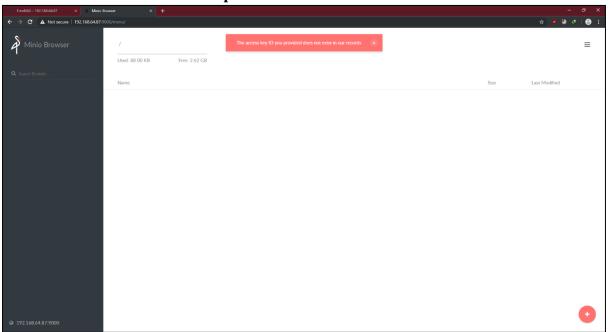
7. Aktivasi Layanan S3



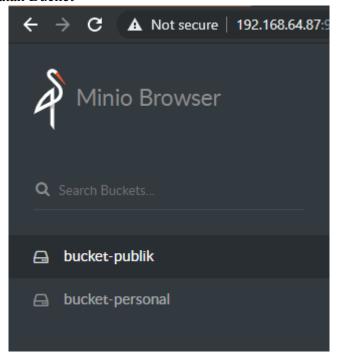
8. Akses layanan S3 dengan MinIO Web Based Buka browser dengan IP Adress:9000 ex:192.168.64.87:9000 9. Login MinIO



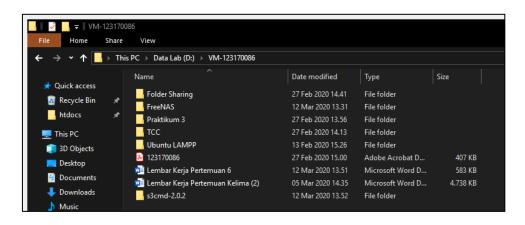
10. Tampilan Dashboard MinIO Klik **add** kemudiad **create bucket**, beri nama **personal-bucket** dan kemudian kembali beri nama **bucket-publik**.



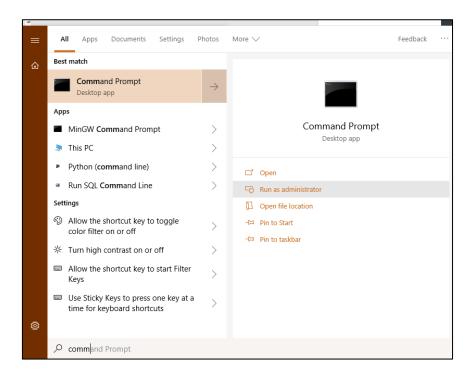
#### 11. Hasil Pembuatan Bucket



# 12. Mencoba s3cmd untuk upload data Buka situs <a href="http://link.upnyk.ac.id/s3cmd">http://link.upnyk.ac.id/s3cmd</a> kemudian unduh paket aplikasi s3cmd dalam bentuk zip. Ekstrak ke folder **VM-NIM**



# 13. Install s3cmd dengan python



# 14. Working Directory ke folder s3 hasil unduh

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

C:\Windows\system32>D:
D:\>cd vm-123170086

D:\VM-123170086\s3cmd-2.0.2

D:\VM-123170086\s3cmd-2.0.2>python setup.py install
```

```
writing requirements to c:\program files (x86)\python37-32\lib\site-packages\python_dateutil-2.8.1-py3.7.egg\EGG-INFO\re \quires.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://pypl.org/simple/six/
Downloading https://files.pythonhosted.org/packages/65/eb/1f97cb97bfc2390a276969c6fae16075da282f5058082d4cb10c6c5c1dba/six-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 1.1.40 co easy-install.pth file

Installed c:\program files (x86)\python37-32\lib\site-packages\six-1.14.0-py3.7.egg
Finished processing dependencies for s3cmd==2.0.2

D:\VM-123170086\s3cmd-2.0.2>
```

### 15. Konfigurasi sc3md

```
C: Administrator Command Promyst - python s2cmd --configure

EMROR: Option --preserve is not yet supported on MS Mindows platform. Assuming --no-preserve.

EMROR: Option --preserve is not yet supported on MS Mindows platform. Assuming --no-progress.

Enter new values on 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 S1941

Access Key: 123170886

Default Region (US):

Use "$3.umazonaws.com" for S3 Endpoint and not modify it to the target Amazon S3.

$3 Endpoint [83.amazonaws.com]: 192.168.66.87:0808

Use "$4.bucket)s.s3.amazonaws.com]: 192.168.66.87:0808

Use "$4.bucket)s.s3.amazonaws.com]: 192.168.66.87:0808

Use "$6.bucket)s.s3.amazonaws.com]: 192.168.66.87:0808

Use MITPS protocol if [vs.]: 160

Use MITPS pr
```

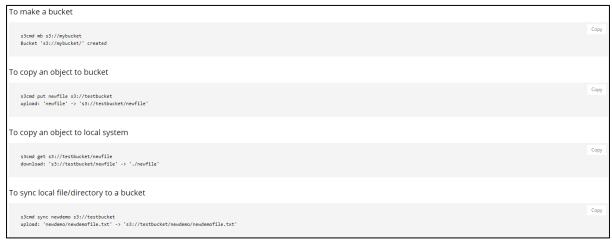
## 16. Mencoba perintah s3cmd

Mengetikkan python s3cmd ls untuke mengetahui listing isi dari bucket pada s3 FreeNAS

```
New settings:
Access Key: 53rafi
Secret Key: 123170086
Default Region: US
53 Endpoint: 192.168.64.87:9000
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 name:
HTTP Proxy server name:
HTTP Proxy server home:
Success 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:\VM-123170086\s3cmd-2.0.2> python s3cmd ls
2020-03-12 06:48 s3://bucket-personal
2020-03-12 06:48 s3://bucket-personal
2020-03-12 06:48 s3://bucket-publik
D:\VM-123170086\s3cmd-2.0.2>
```

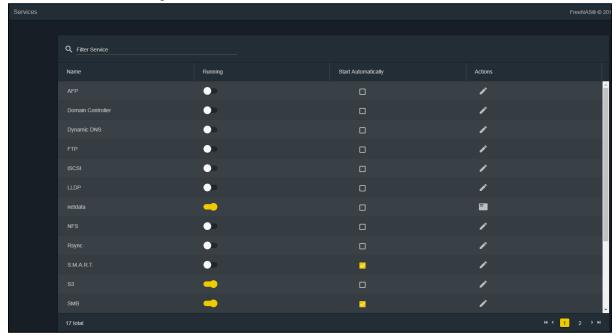
#### 17. Dokumentasi command s3cmd



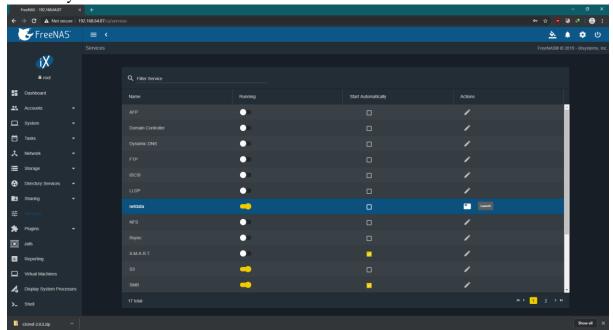
## MONITORING DENGAN NETDATA SERVICE

Netdata merupakan sistem layanan monitoring performa sistem secara real-time. Tampilang yang disediakan dalam bentuk web-based dashboard.

- 1. Login ke FreeNAS
- 2. Masuk menu Services
  Cari service dengan nama netdata



3. Nyalakan services netdata



4. Tampilan dashboard netdata



## 5. Dokumentasi netdata

https://netdata.cloud untuk informasi mengenai penggunaan netdata dan integrasinya.

# MENCOBA JAILS DENGAN TRANSMISSION

Selain digunakan untuk file sharing,FreeNAS juga dapat digunakan untuk mesin downloader torrent dengan menggunakan aplikasi Transmission.