

Nama : Wildan Ihsan Fathony

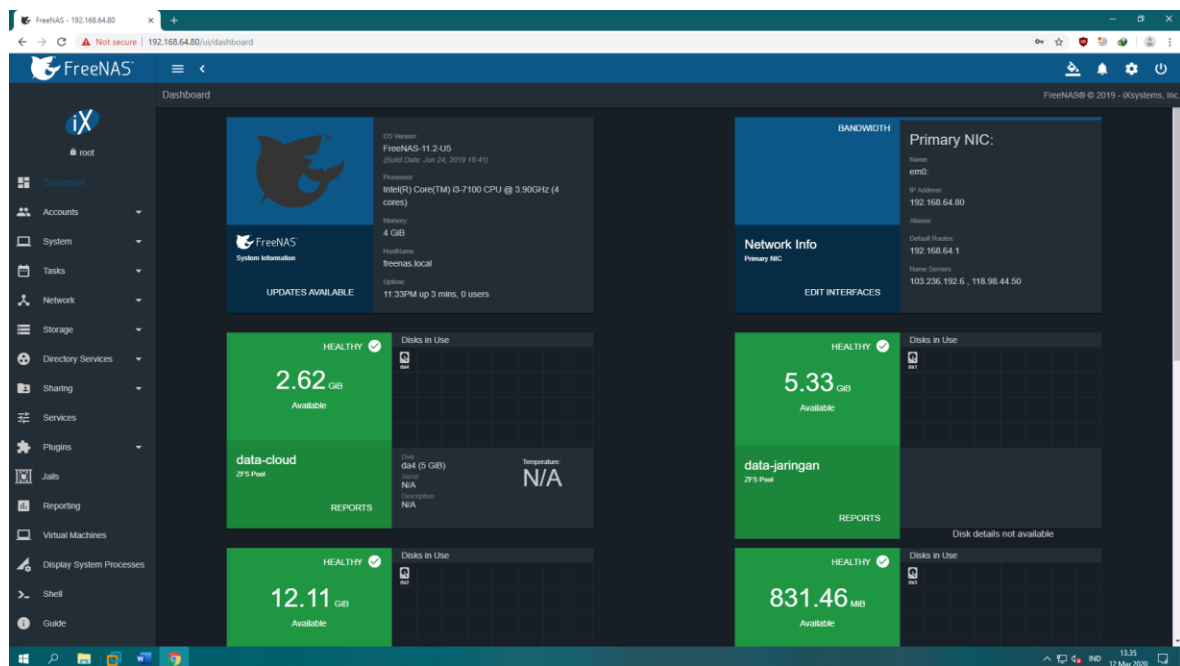
Nim : 123170080

Praktikum TCC pertemuan 6

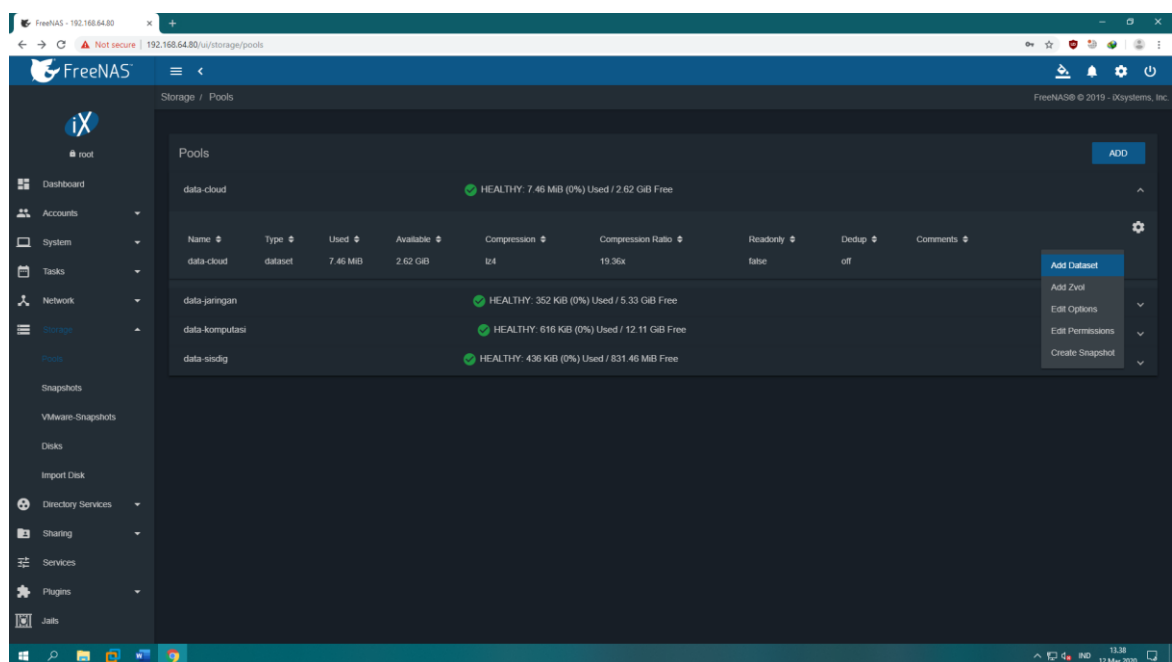
S3 bucket servis

Kontrol penyimpanan berbasis objek yang telah di gunakan oleh banyak vendor cloud computing, contoh nya amazon web service. Dapat dijadikan sebagai alternatif yang murah dan mudah di konfigurasi maupun digunakan.

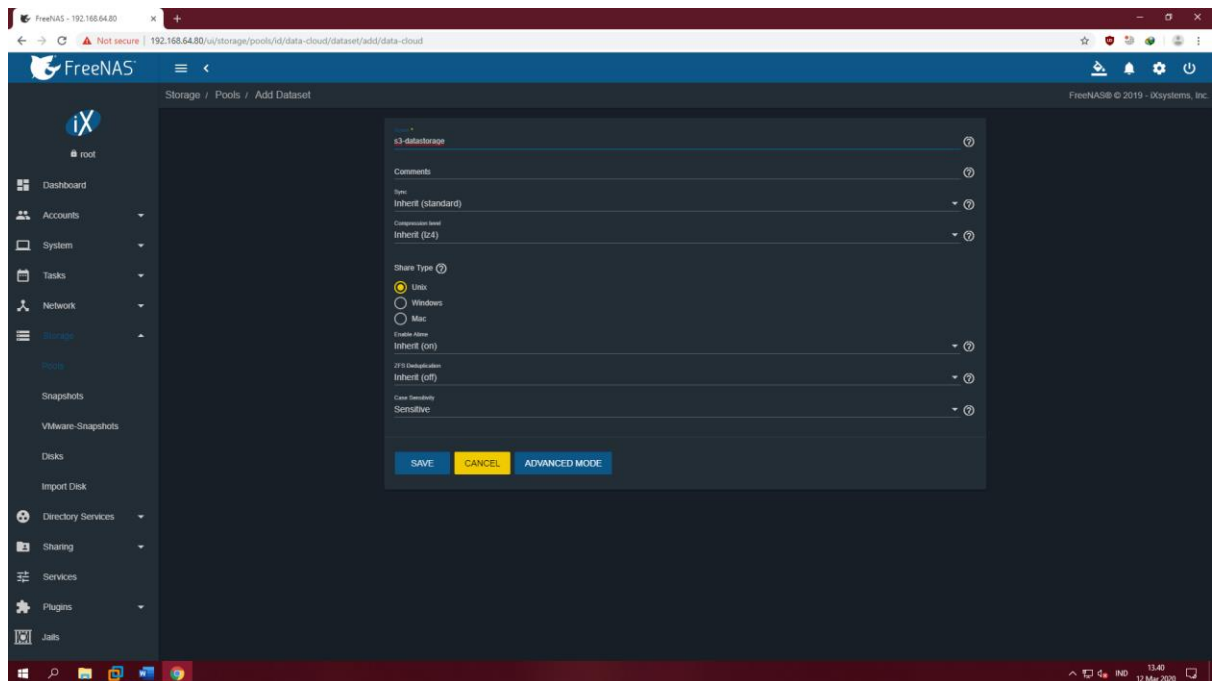
1. Login Dashboard FreeNAS



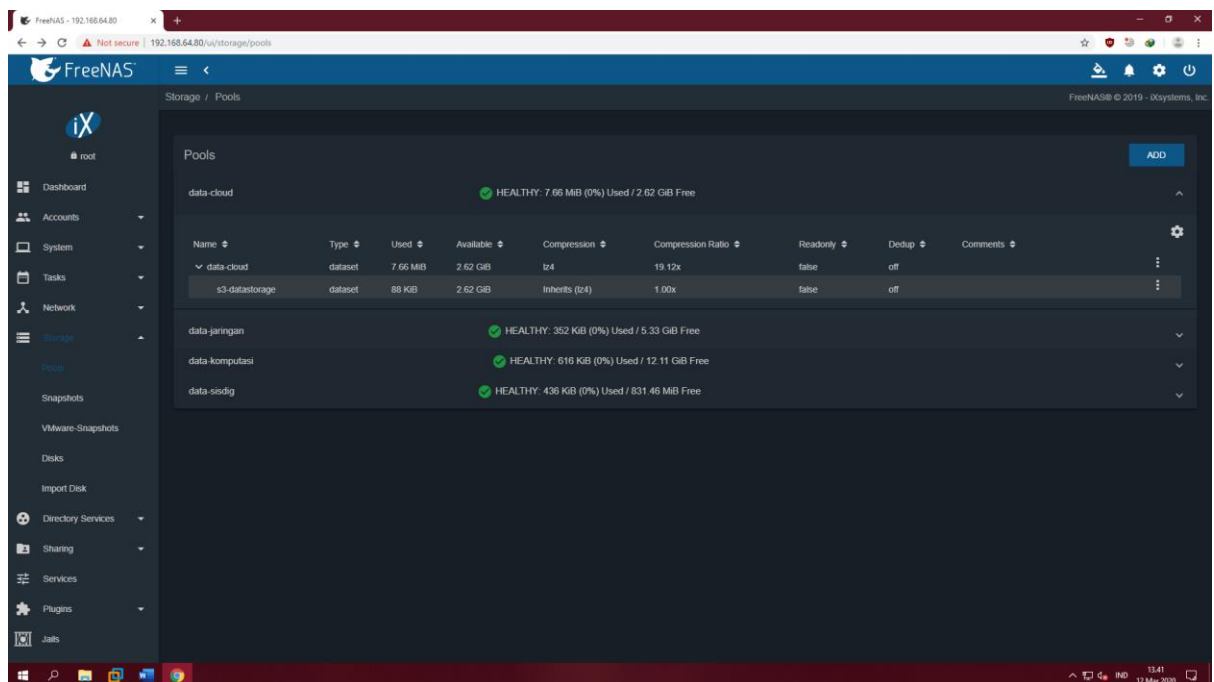
2. Masuk ke menu storage pool kemudian menu options pada data-cloud dan pilih add data set



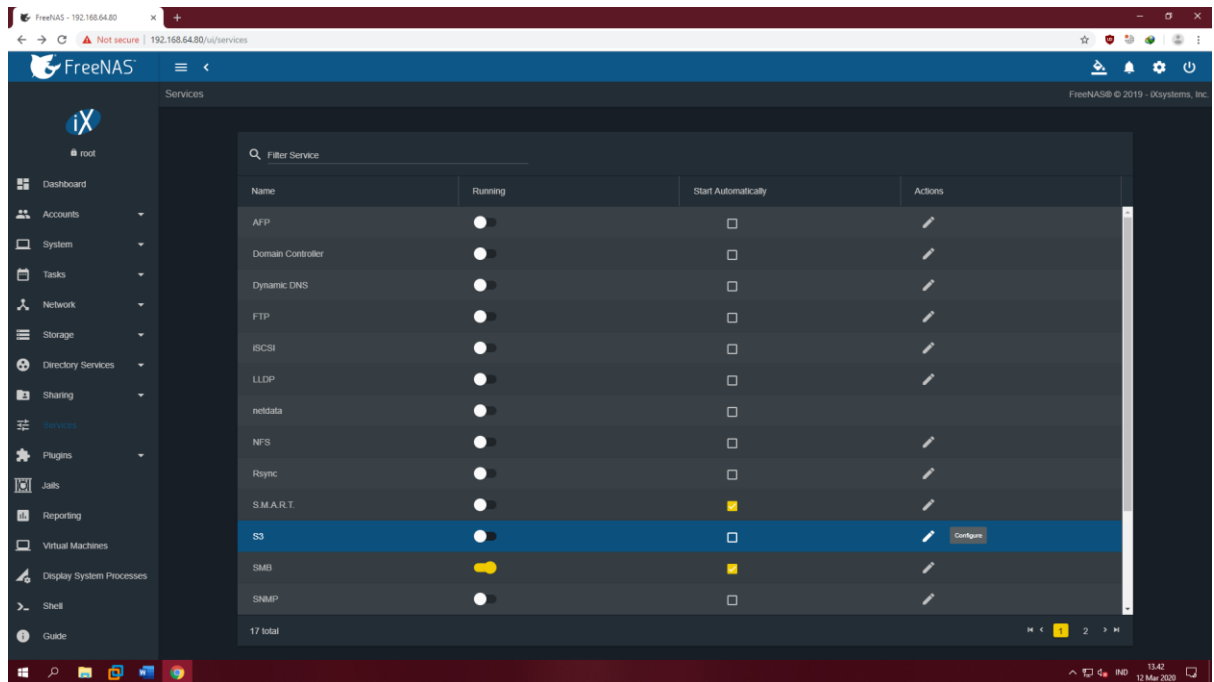
3. Buat dataset baru, gunakan nama dataset s3-datastorage kemudian save



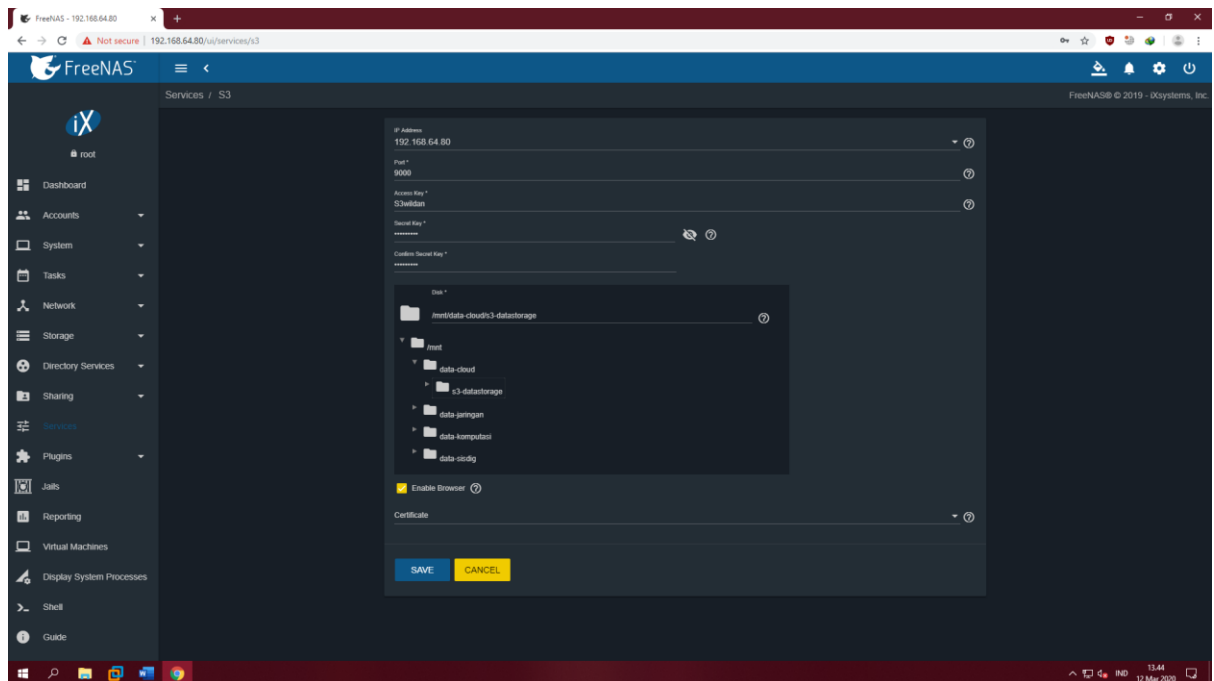
4. Hasil yang muncul setelah membuat dataset



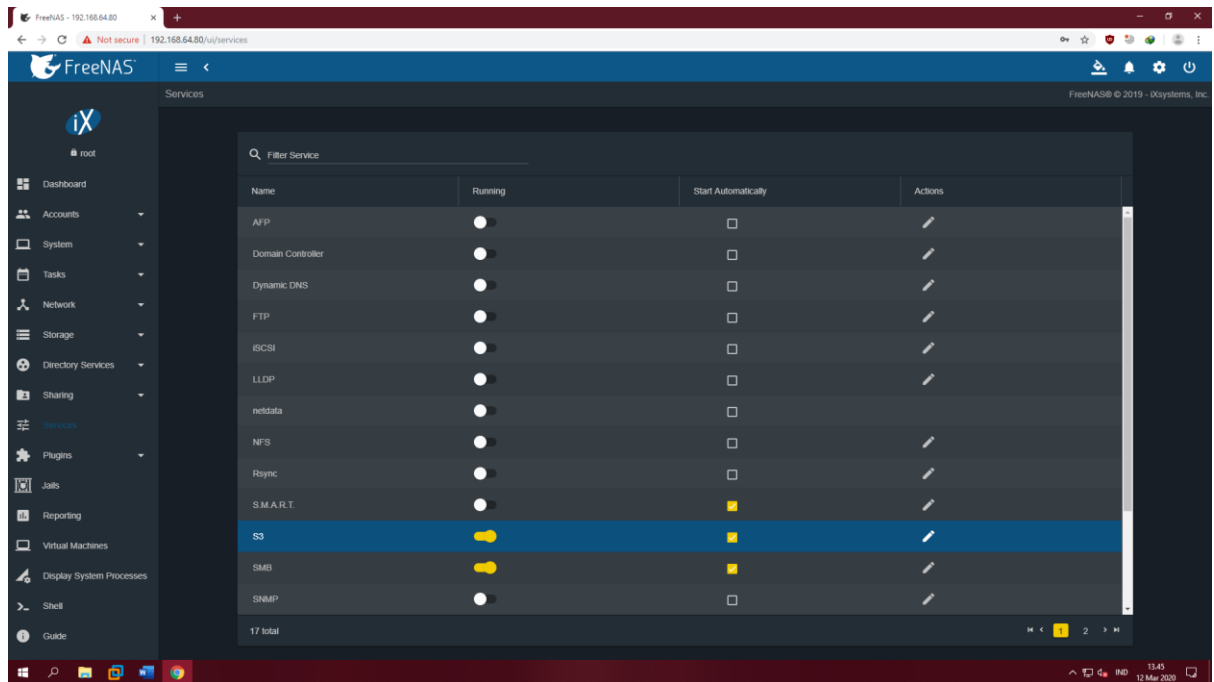
5. Masuk ke menu services, kemudian cari service dngan nama S3, klik pada gambar ikon pensil (configure)



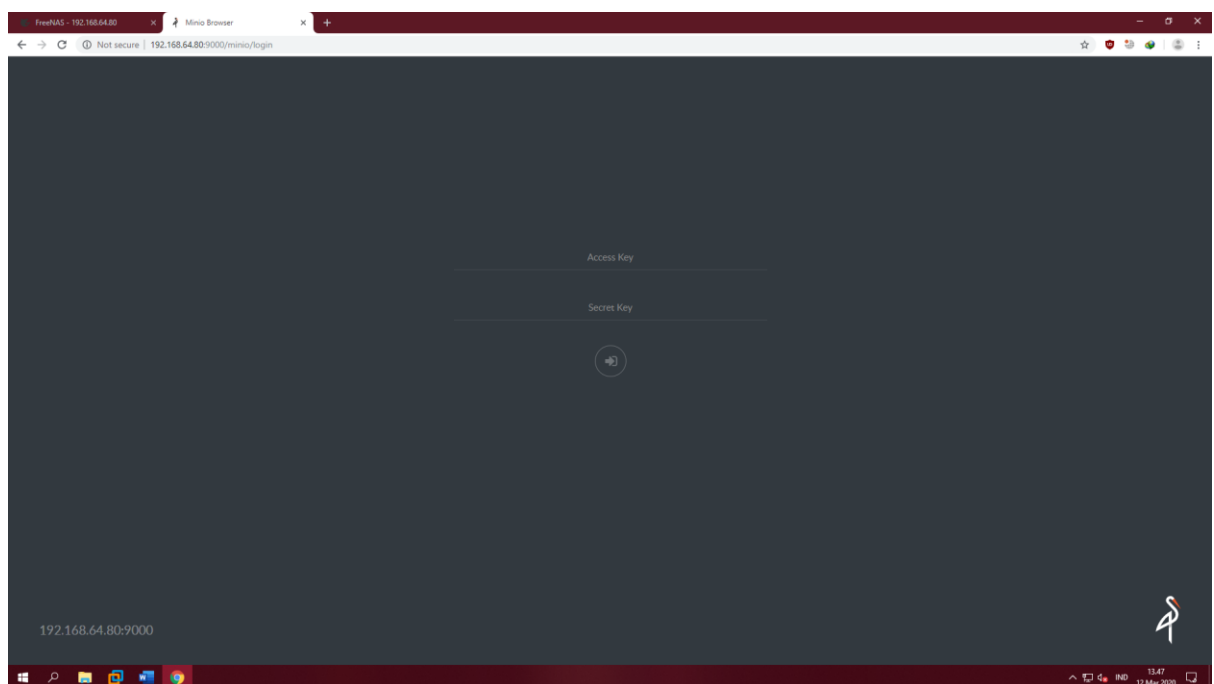
6. Konfigurasi S3 Services (isi ip sesuai pc, kemudian S3wildan kemudian password NIM)



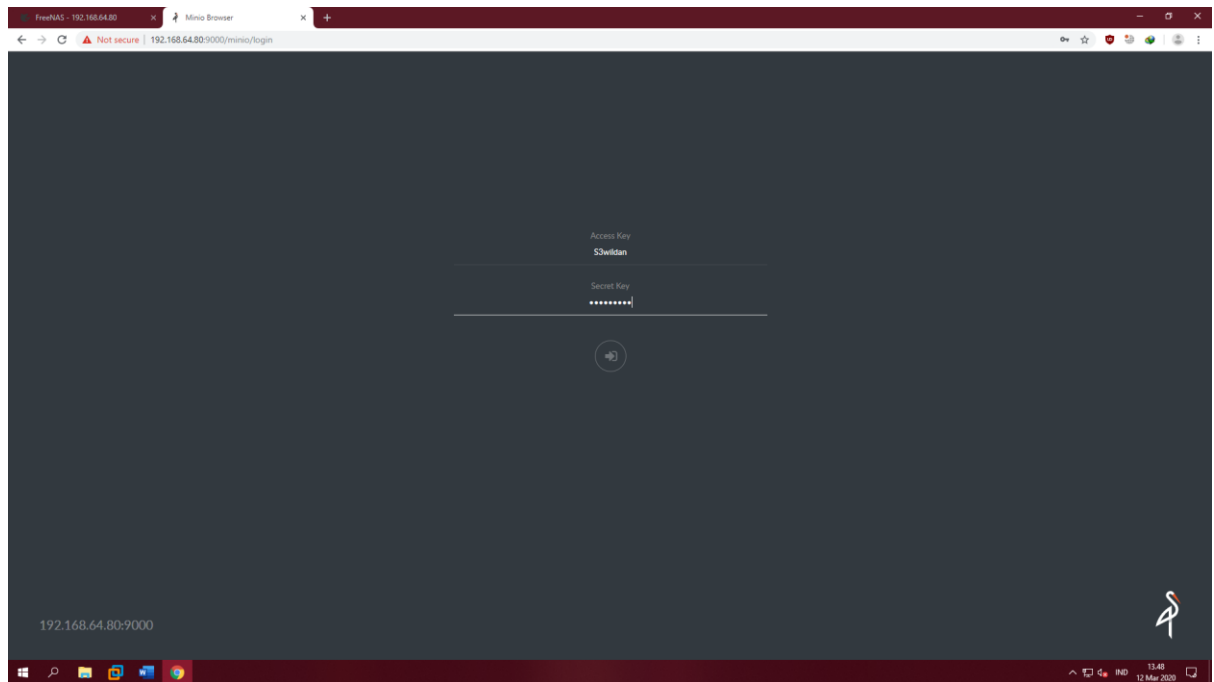
7. Aktivitas layanan S3, cari layanan S# pada menu services kemudian klik switch agar running kemudian di checklist



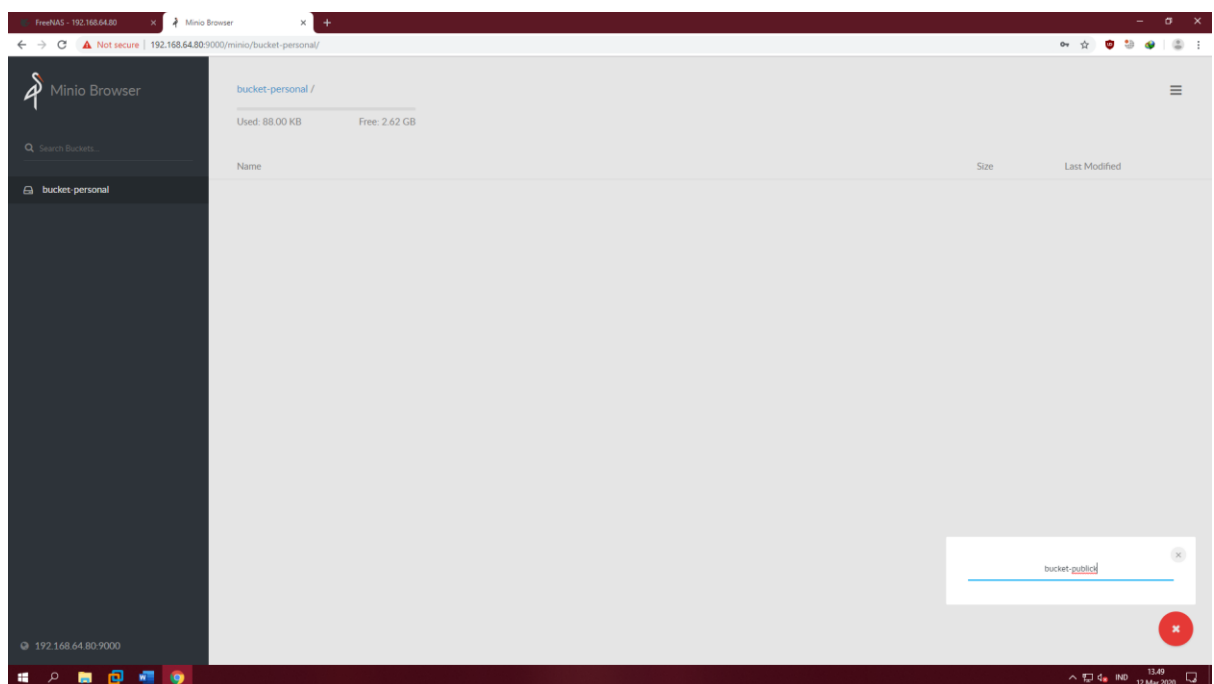
8. Akses layanan S3 dengan MinIO web based, buka browser, arahkan pada alamat <http://IP.FREENAS:9000>



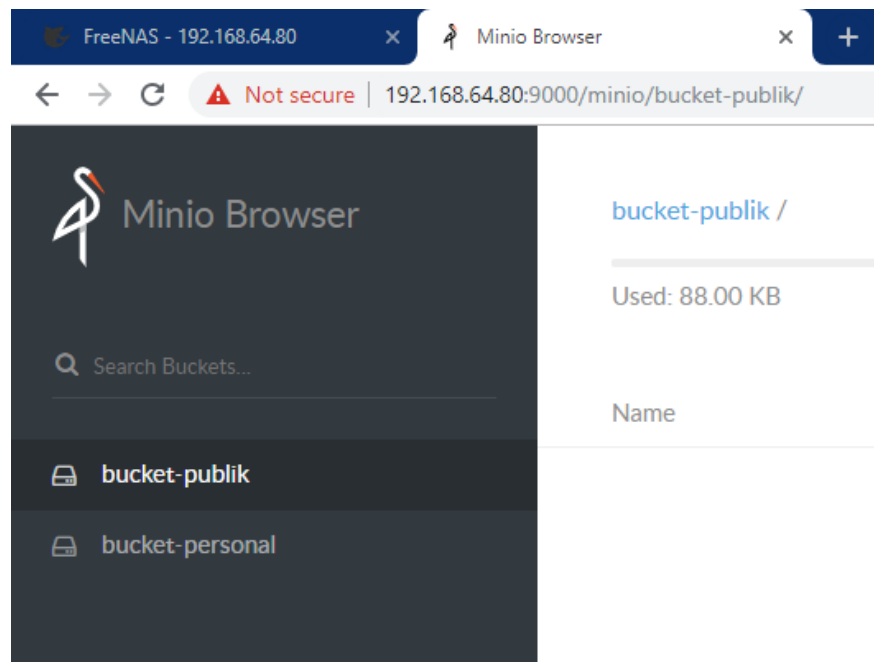
9. Login MinIO, gunakan access key yang telah kita buat tadi S3wildan dan pass NIM



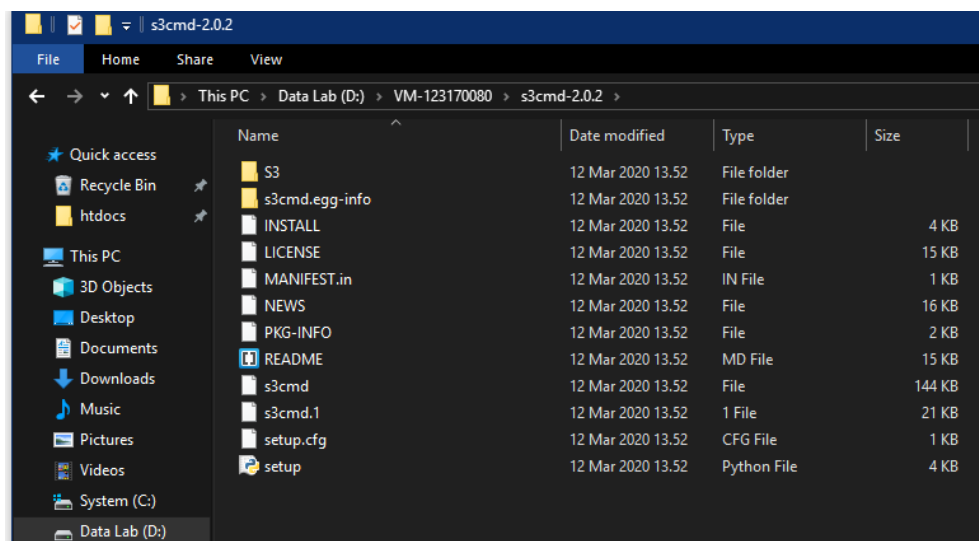
10. Tampilan dashboard MinIO, pada bagian kanan bawah klik tombol add kemudian pilih create bucket, beri nama bucket-personal,. Buat kembali dan beri nama bucket-public



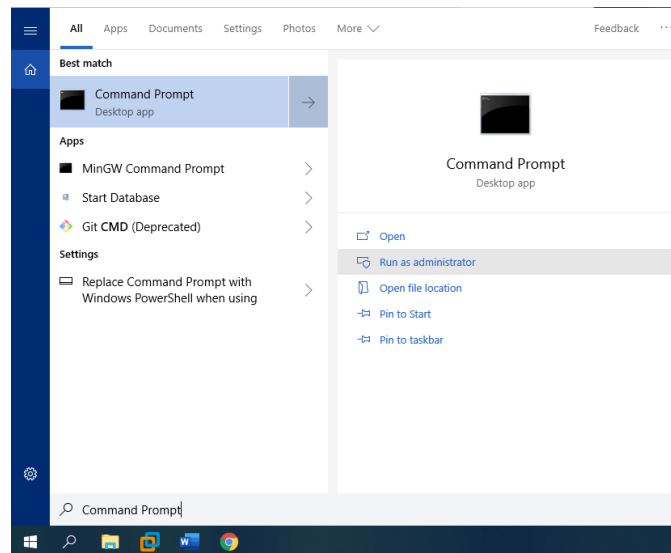
11. Hasil pembuatan bucket



12. Mencoba s3cmd untuk upload data, buka situs link.upnyk.ac.id/s3cmd kemudian unduh paket aplikasi s3cmd dalam bentuk zip. Ekstrak ke folder VM-NIM



13. Install s3cmd dengan python, buka cmdprompt dengan mode elevated privileges (run as administrator)



14. Working directory ke folder s3 hasil unduh, arahkan working directory CMD ke isi folder yang telah di unduh sebelumnya, gunakan D: kemudian cd VM-NIM kemudian cd s3cmd-2.0.2 kemudian ketikkan perintah python setup.py install

```
Administrator: Command Prompt - python setup.py install
Microsoft Windows [Version 10.0.17763.678]
(c) 2018 Microsoft Corporation. All rights reserved.

C:\Windows\system32>D:

D:\>cd VM-123170080

D:\VM-123170080>cd s3cmd-2.0.2

D:\VM-123170080\s3cmd-2.0.2>python setup.py install
Using xml.etree.ElementTree for XML processing
```

15. Tampilah setelah install

```
Administrator: Command Prompt

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 to easy-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://pypi.org/simple/python-dateutil/
Downloading https://files.pythonhosted.org/packages/d4/70/d60450c3dd48ef87586924207ae8907090de0b306af2bce5d134d78615cb/p
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
Installing 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\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://pypi.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
Installing six-1.14.0-py2.py3-none-any.whl to c:\program files (x86)\python37-32\lib\site-packages
Adding six 1.14.0 to 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-123170080\s3cmd-2.0.2>
```

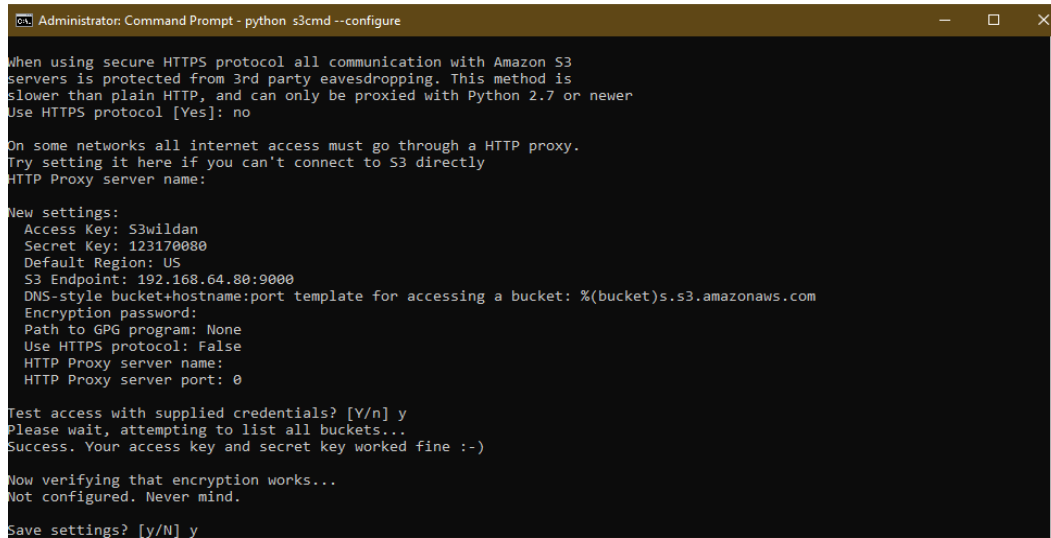
16. Konfigurasi s3cmd ketikkan perintah python s3cmd --configure

```
D:\VM-123170080\s3cmd-2.0.2>python s3cmd --configure
ERROR: Option --preserve is not yet supported on MS Windows platform. Assuming --no-preserve.
ERROR: Option --progress is not yet supported on MS Windows platform. Assuming --no-progress.

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: 
```

17. Parameter konfigurasi, isikan access key S3nick dan pass NIM. Untuk pilihan region kosongkan, untuk endpoint isikan IP.FREENAS:9000 isian bucket, encryption , dan GPG kosongkan, bagian https isi No. bagian proxy kosongkan. Test setting isikan Y, bila berhasil akan statusnya success kemudian save settings dengan isian Y.



```
Administrator: Command Prompt - python s3cmd --configure

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:

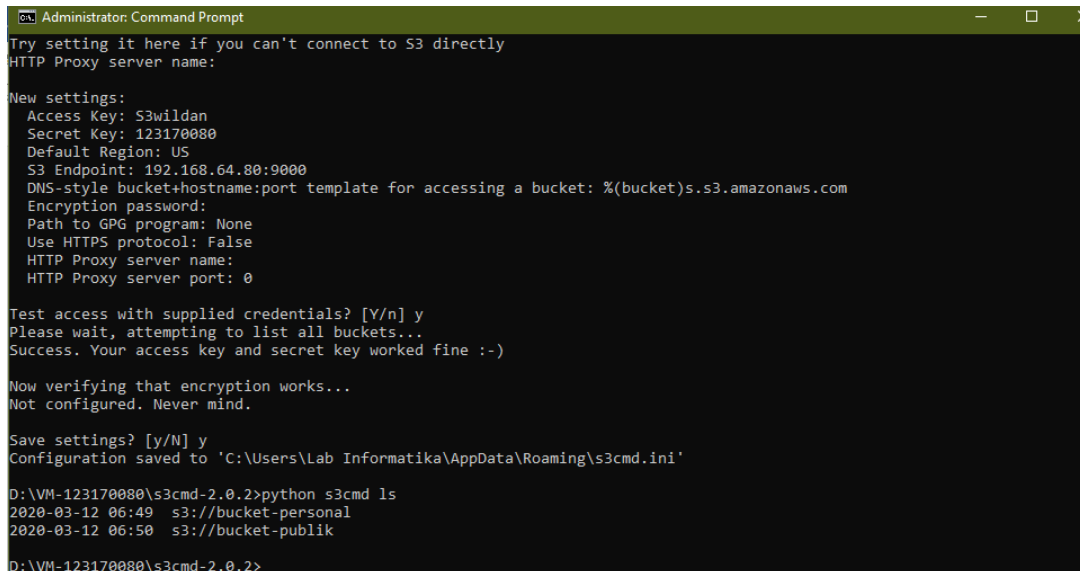
New settings:
Access Key: S3wildan
Secret Key: 123170080
Default Region: US
S3 Endpoint: 192.168.64.80:9000
DNS-style bucket+hostname:port template for accessing a bucket: %(bucket)s.s3.amazonaws.com
Encryption password:
Path to GPG program: None
Use HTTPS protocol: False
HTTP Proxy server name:
HTTP 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
```

18. Mencoba perintah s3cmd, ketikkan python s3cmd ls untuk melisting isi dari bucket pada s3 FreeNAS.



```
Administrator: Command Prompt

Try setting it here if you can't connect to S3 directly
HTTP Proxy server name:

New settings:
Access Key: S3wildan
Secret Key: 123170080
Default Region: US
S3 Endpoint: 192.168.64.80:9000
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 :-))

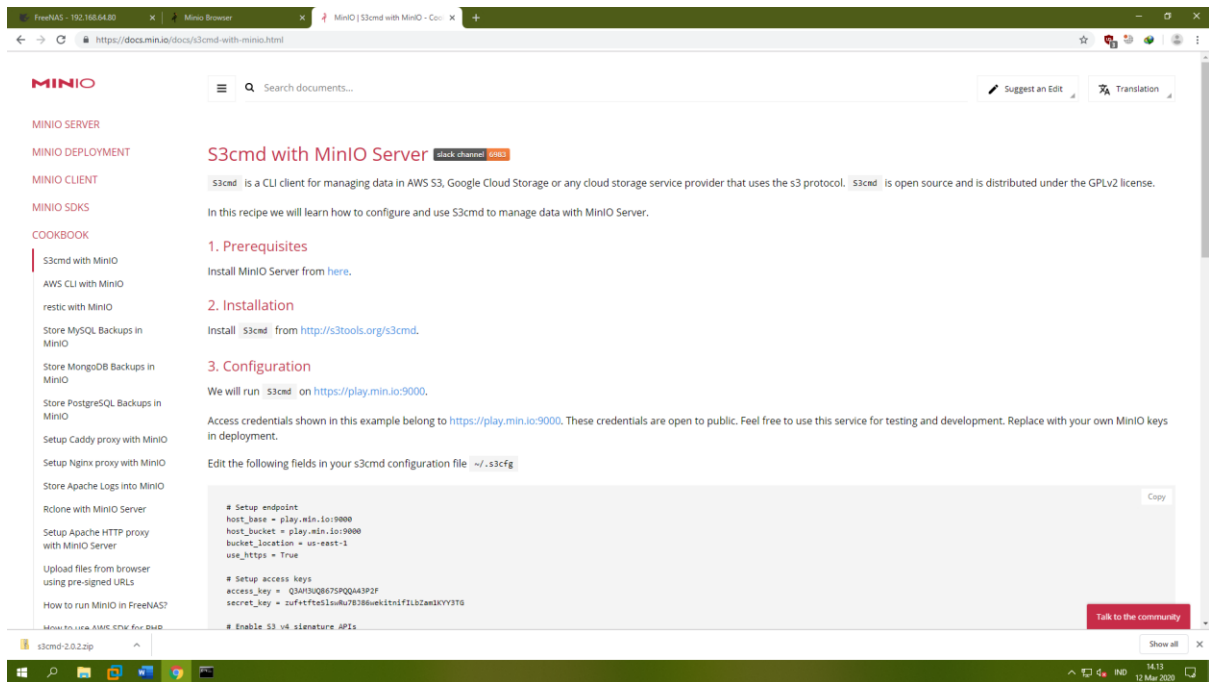
Now verifying that encryption works...
Not configured. Never mind.

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

D:\VM-123170080\s3cmd-2.0.2>python s3cmd ls
2020-03-12 06:49 s3://bucket-personal
2020-03-12 06:50 s3://bucket-publik

D:\VM-123170080\s3cmd-2.0.2>
```

19. Dokumentasi s3cmd, docs.min.io/docs/s3cmd-with-minio.html . kemudian cobalah sintaks upload dan download



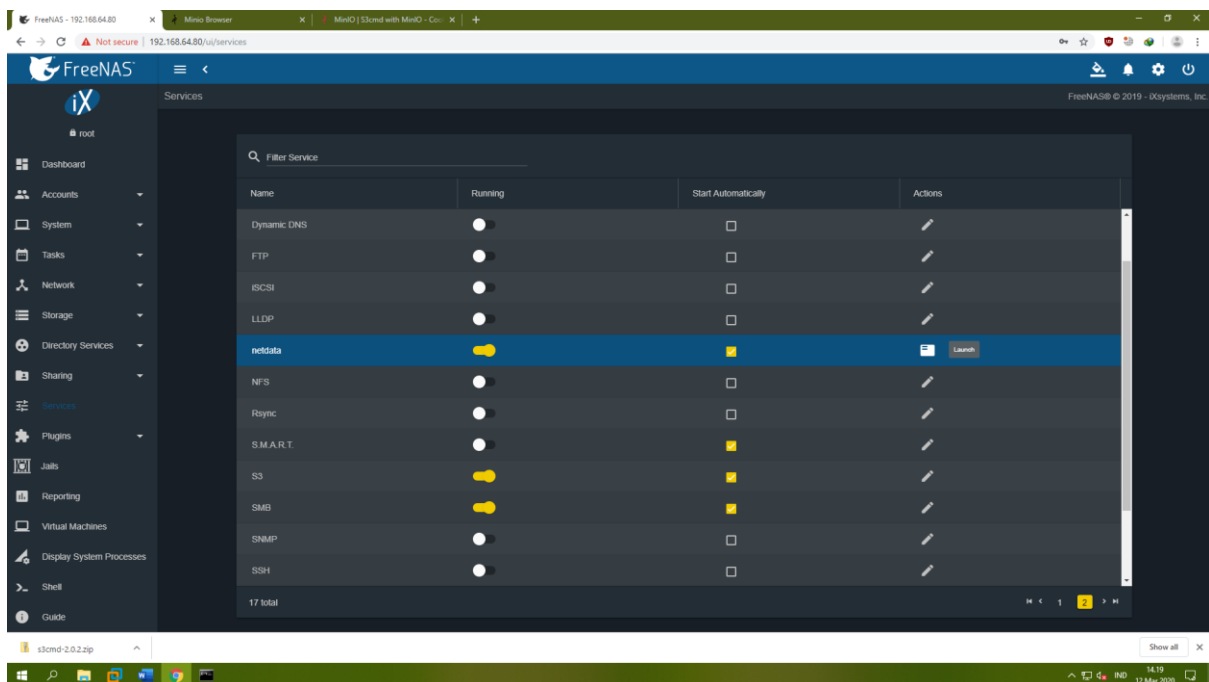
20. Perintah upload file pada bucket, python s3cmd put mencoba.txt s3://bucket-personal

```
D:\VM-123170080\s3cmd-2.0.2>python s3cmd put mencoba.txt s3://bucket-personal
ERROR: Parameter problem: Nothing to upload.
D:\VM-123170080\s3cmd-2.0.2>
```

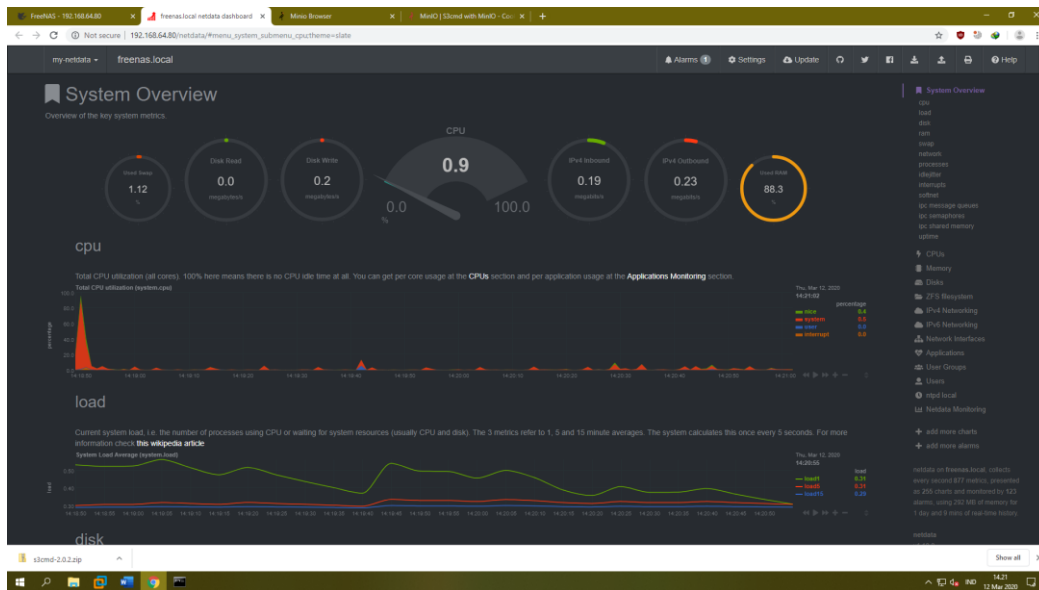
FITUR KE 2 FREENAS (Netdata)

Sistem layanan monitoring performa sistem secara real-time. Tampilan di sediakan dalam bentuk web based dashboard.

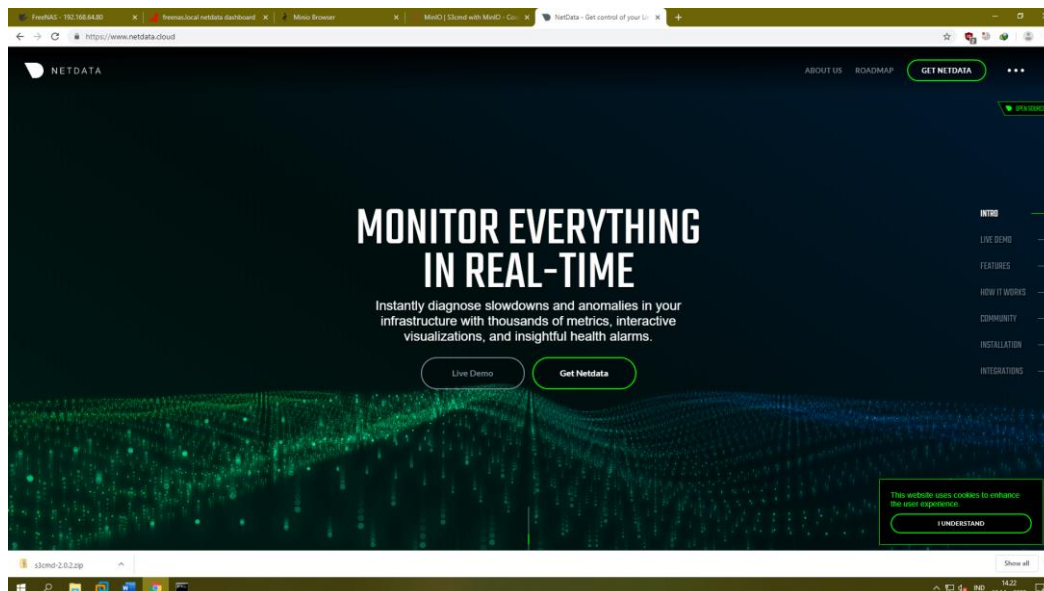
1. Masuk menu services, cari netdata, lalu nyalakan dan klik pada launch



2. Tampilan net data, dapat di akses juga melalui IP.FREENAS/netdata



3. Dokumentasi netdata, netdata.cloud



FITUR KE 3 FREENAS

(Sebagai mesin downloader torrent dengan menggunakan aplikasi transmission)