

Judanti Cahyaning Tyas

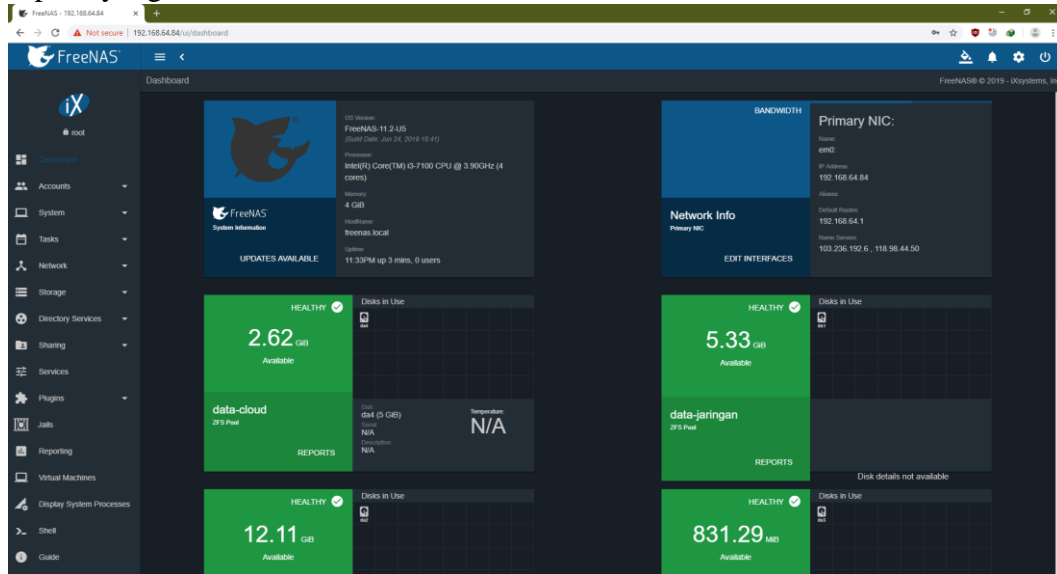
123170014

FreeNAS

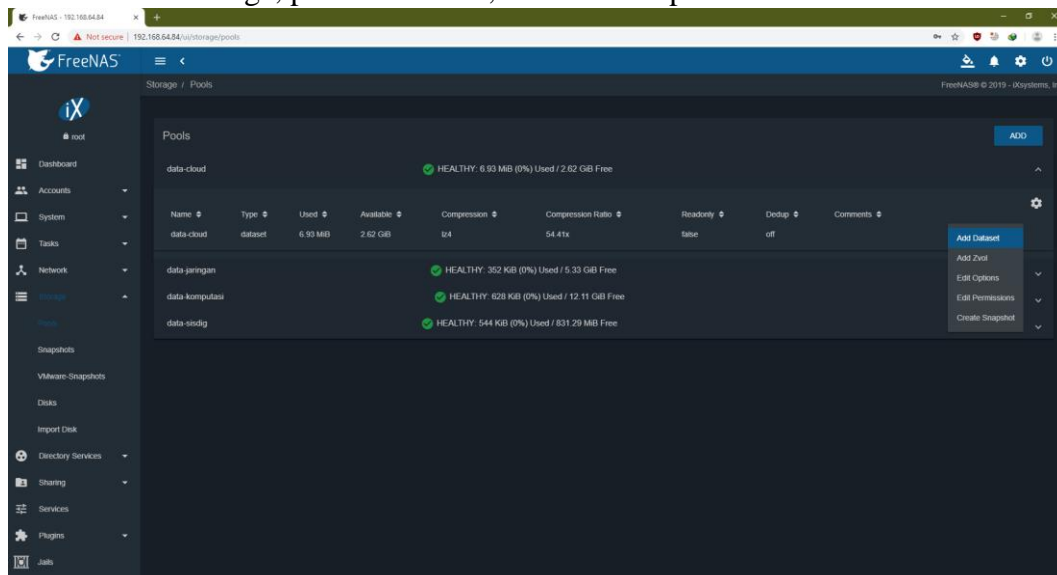
FreeNAS, tidak hanya untuk sharing saja tetapi dapat digunakan untuk hosting juga

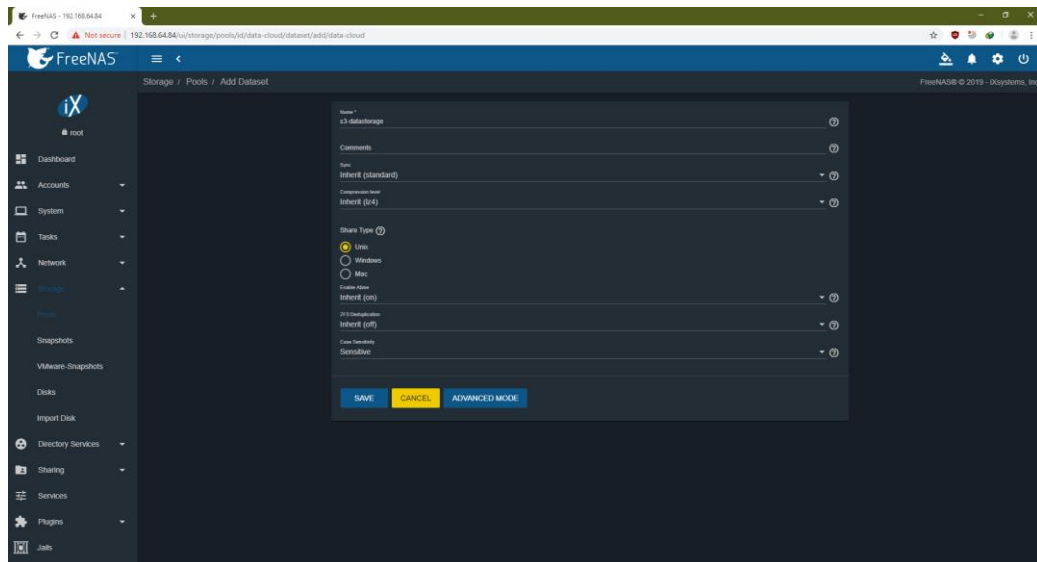
Konfigurasi S3 Bucket Service

1. Login dashboard FreeNAS dengan username root dan password menggunakan nim seperti yang telah dibuat kemarin

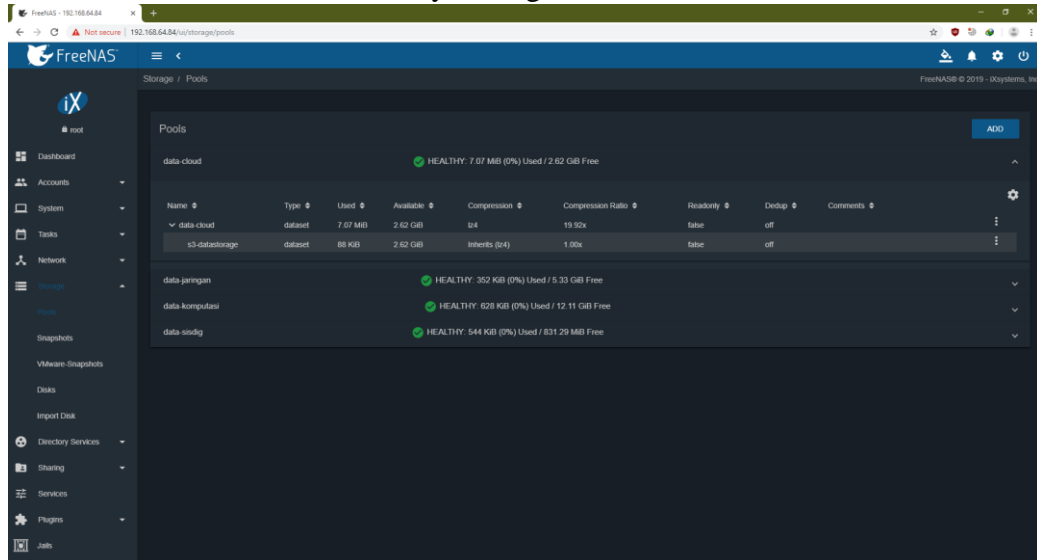


2. Masuk menu storage, pool data cloud, buka menu options kemudian add dataset

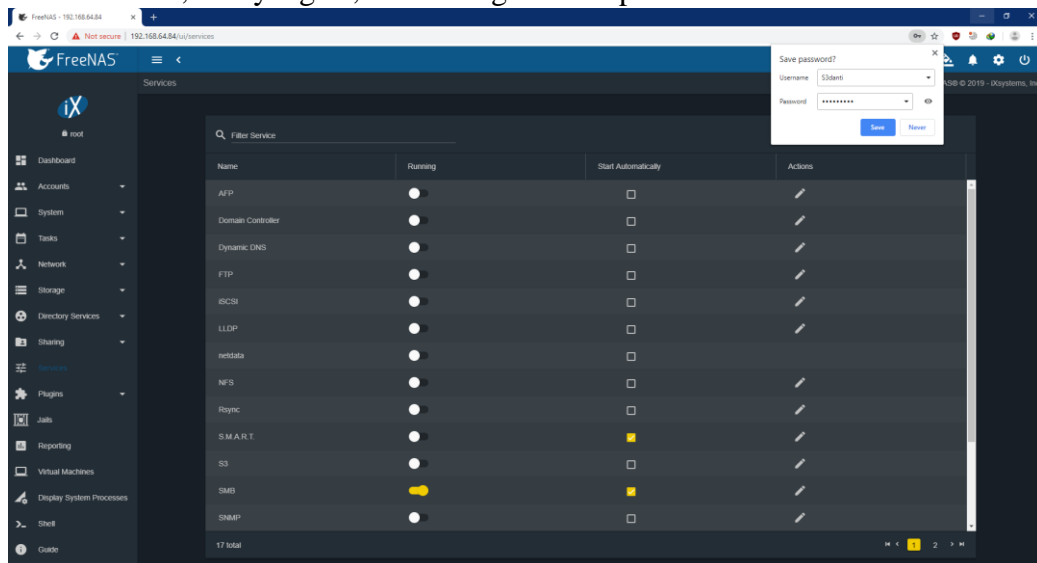




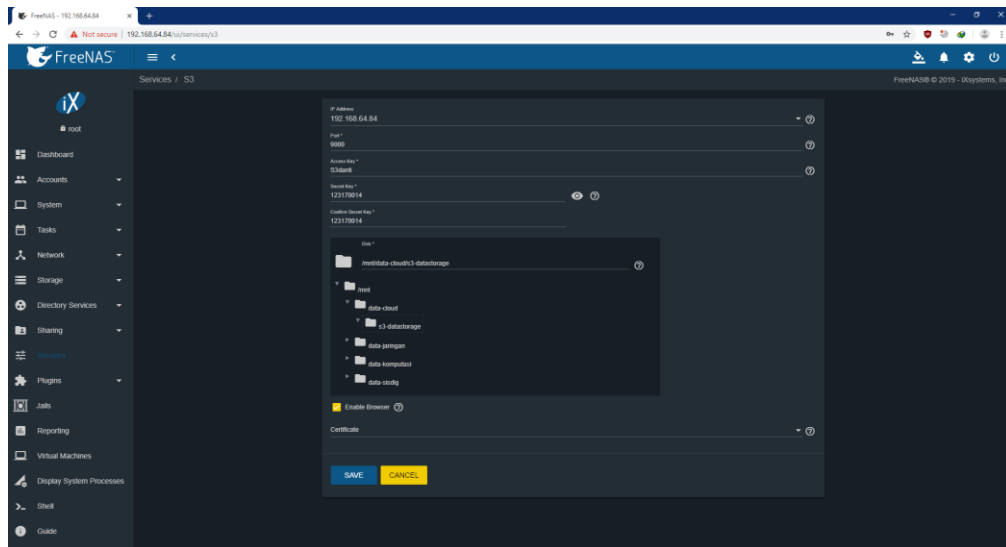
Kasih nama lalu klik save, hasilnya sebagai berikut



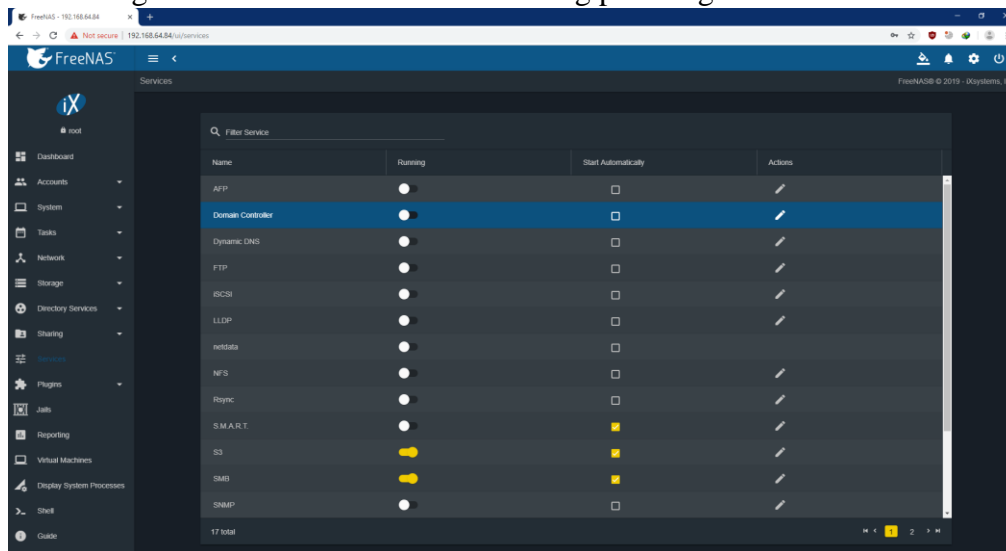
3. Menu service, cari yang s3, klik configure icon pensil.



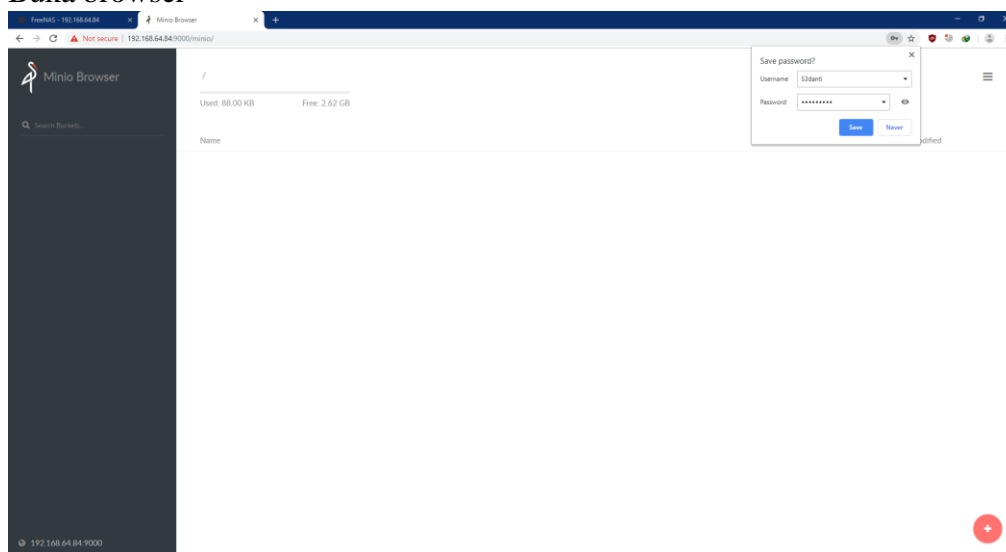
Configure sebagai berikut



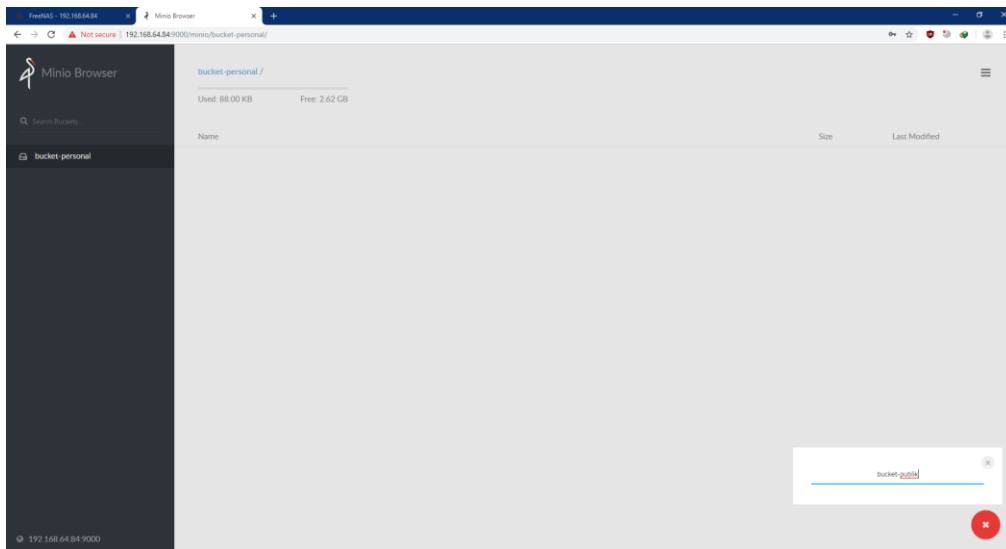
Di running dan di check list biar auto booting pada bagian s3



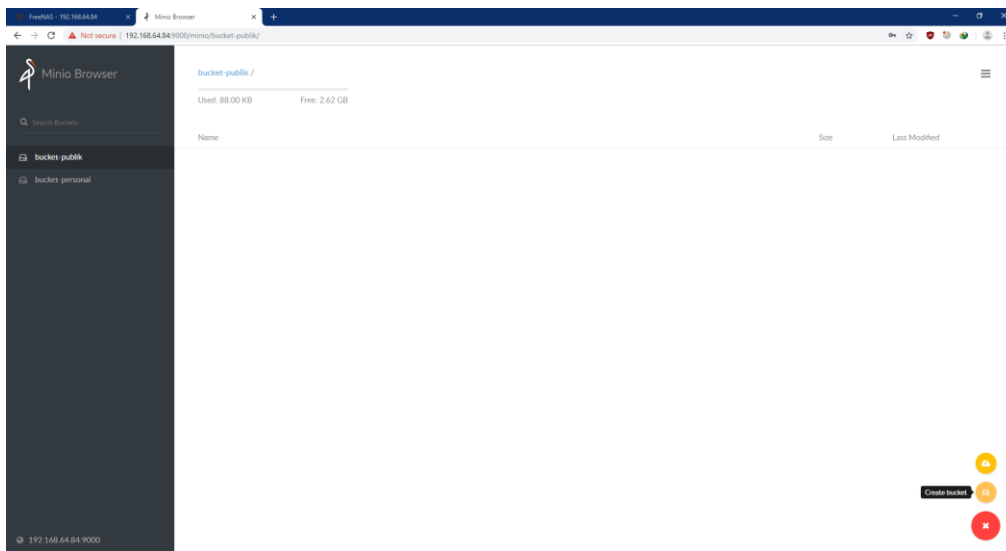
4. Buka browser



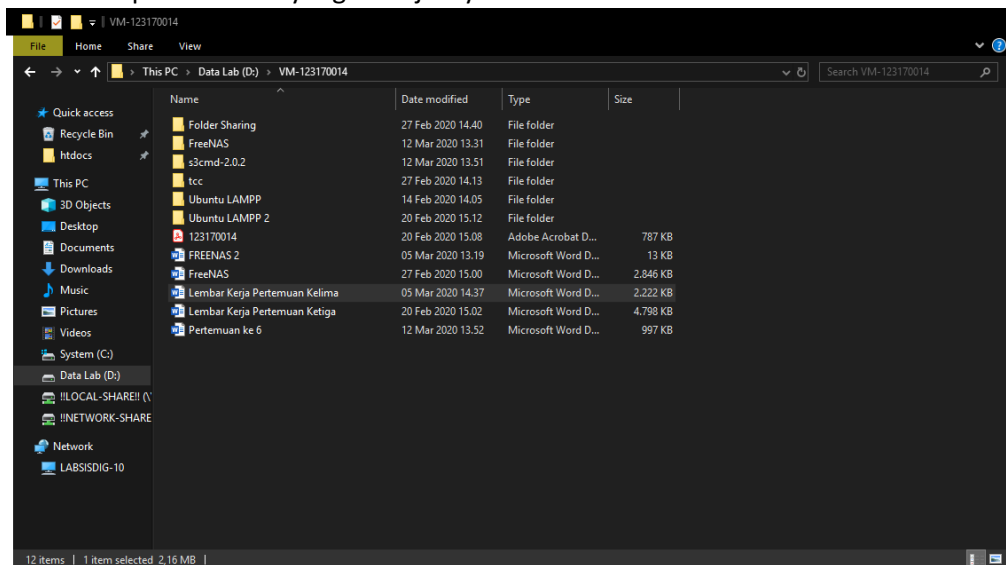
- Membuat bucket dengan cara klik tanda plus lalu create bucket. Bucket pertama bernama bucket-personal, bucket kedua diberikan nama bucket-publik



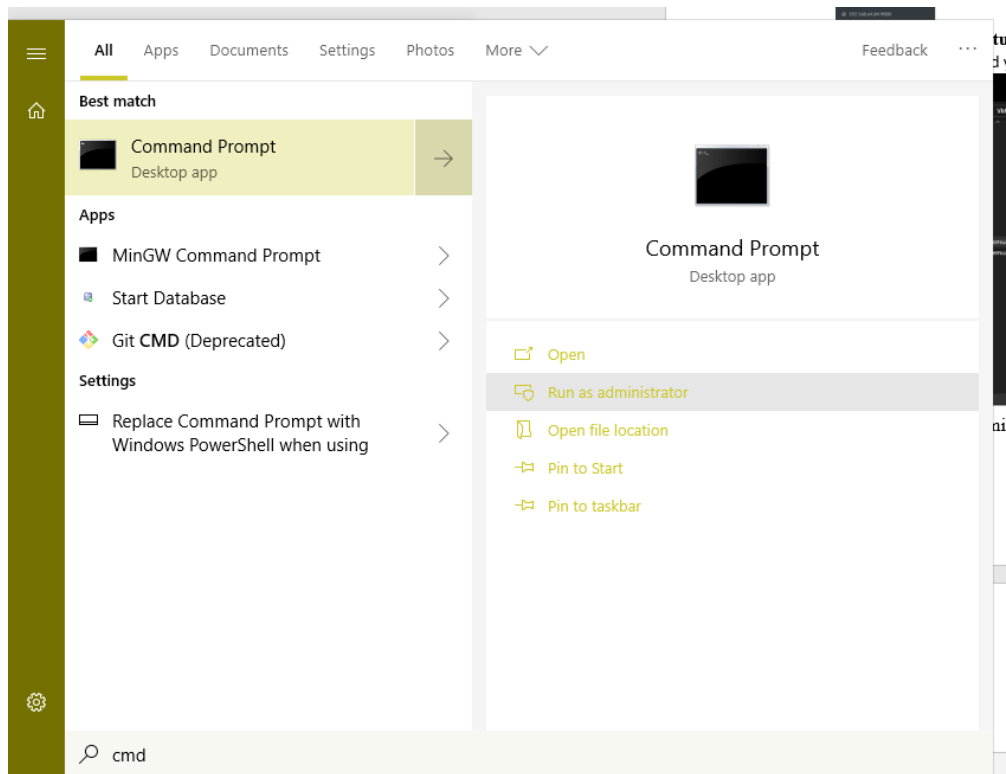
Lalu akan muncul di sidebar



6. **Mencoba s3cmd untuk upload data.** Buka situs <http://link.upnyk.ac.id/s3cmd> untuk download paket s3cmd yang selanjutnya dimasukkan ke dalam folder VM-NIM



7. Buka cmd run as administrator



Lalu arahkan ke D: kemudian cd VM-NIM kemudian cd s3cmd-2.0.2 kemudian python setup.py install

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

C:\Windows\system32>D:

D:\>cd VM-123170014

D:\VM-123170014>cd s3cmd-2.0.2

D:\VM-123170014\s3cmd-2.0.2>python setup.py install
'python' is not recognized as an internal or external command,
operable program or batch file.

D:\VM-123170014\s3cmd-2.0.2>python setup.py install
Using xml.etree.ElementTree for XML processing
running install
running bdist_egg
running egg_info
writing s3cmd.egg-info\PKG-INFO
writing dependency_links to s3cmd.egg-info\dependency_links.txt
writing requirements to s3cmd.egg-info\requires.txt
writing top-level names to s3cmd.egg-info\top_level.txt
reading manifest file 's3cmd.egg-info\SOURCES.txt'
reading manifest template 'MANIFEST.in'
writing manifest file 's3cmd.egg-info\SOURCES.txt'
installing library code to build\bdist.win32\egg
running install_lib
running build_py
creating build
creating build\lib
```

8. Kemudian python s3cmd --configure lalu diminta untuk memasukkan access key dan secret key

```
Select Administrator: Command Prompt

Installed C:\Program Files (x86)\python37-32\lib\site-packages\s3cmd-2.0.2
Finished processing dependencies for s3cmd-2.0.2

D:\VM-123170014\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: S3dant1
Secret Key: 123170014
Default Region [US]:

Use "s3.amazonaws.com" for S3 Endpoint and not modify it to the target Amazon S3.
S3 Endpoint [s3.amazonaws.com]: 192.168.64.84:9000

Use "%(bucket)s.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 [%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:
Access Key: S3dant1
Secret Key: 123170014
Default Region: US
S3 Endpoint: 192.168.64.84:9000
DNS-style bucket+hostname:port template for accessing a 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-123170014\s3cmd-2.0.2>
```

9. Mencoba perintah s3cmd dengan menggunakan python s3cmd ls untuk melisting isi dari bucket pada s3 FreeNAS

```
Select Administrator: Command Prompt

S3 Endpoint: 192.168.64.84:9000
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-123170014\s3cmd-2.0.2>python s3cmd ls
2020-03-12 06:48 s3://bucket-personal
2020-03-12 06:48 s3://bucket-public

D:\VM-123170014\s3cmd-2.0.2>
```

Untuk mengetahui perintah yang lainnya dapat dilihat di

<https://docs.min.io/docs/s3cmd-with-minio.html>

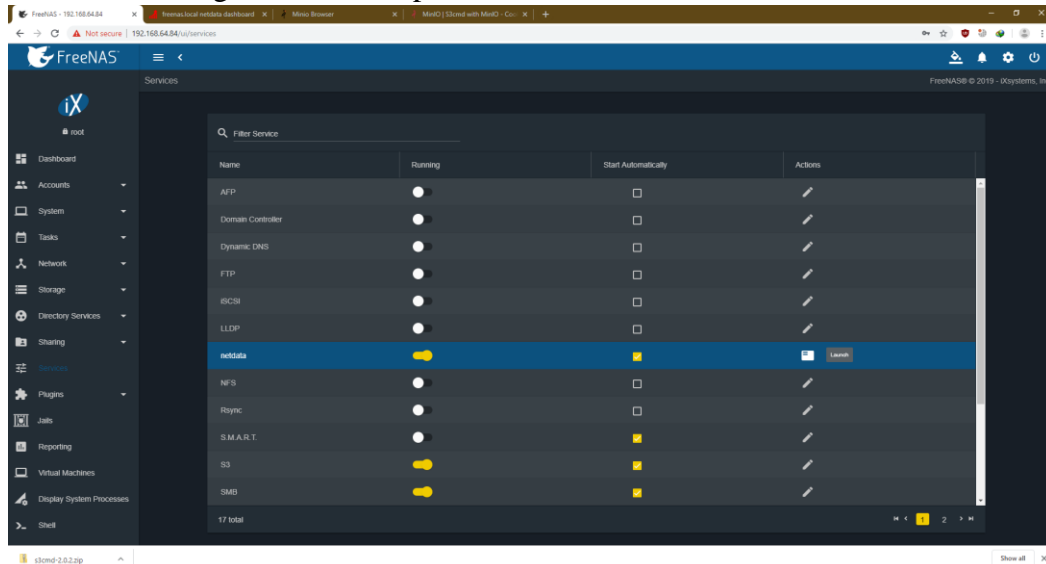
The screenshot shows the MinIO website's documentation page for s3cmd. The page is titled "4. Commands" and lists various s3cmd commands and their usage. The commands are grouped into sections: "To make a bucket", "To copy an object to bucket", "To copy an object to local system", "To sync local file/directory to a bucket", and "To sync bucket or object with local filesystem". Each section includes a code block with the command and a "Copy" button. The page also features a sidebar with navigation links for MinIO Server, MinIO Deployment, MinIO Client, MinIO SDKs, and a Cookbook section. The bottom of the page includes a footer with the MinIO logo and a link to the community.

Untuk upload dan download, contohnya `python s3cmd put mencoba.txt s3://bucket-personal`, tetapi masih terjadi error

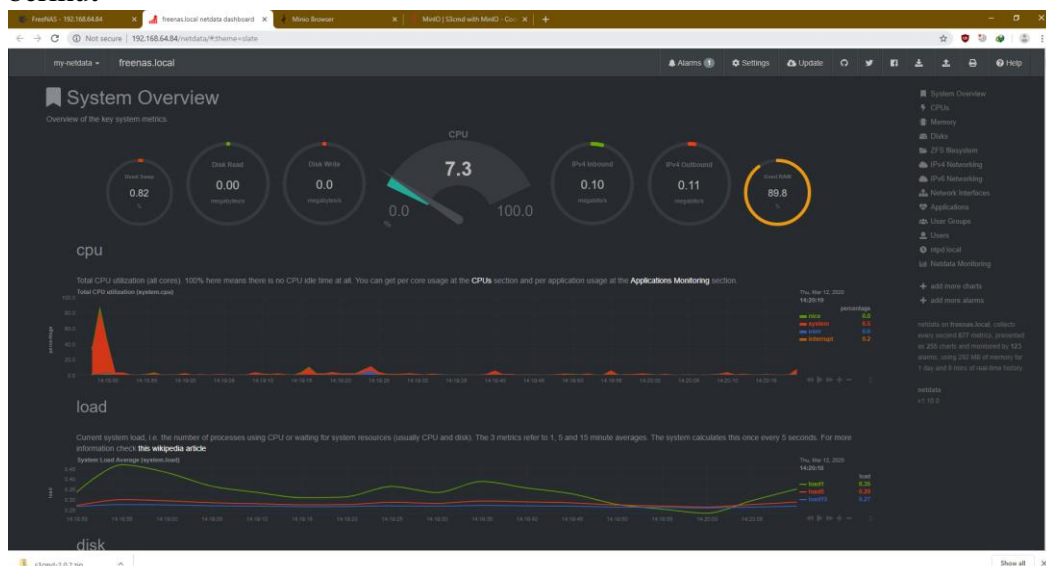
Monitoring dengan Net Data Service

Monitoring performa sistem secara real time yang disediakan dalam web based dashboard. Dapat diintegrasikan pada central data.

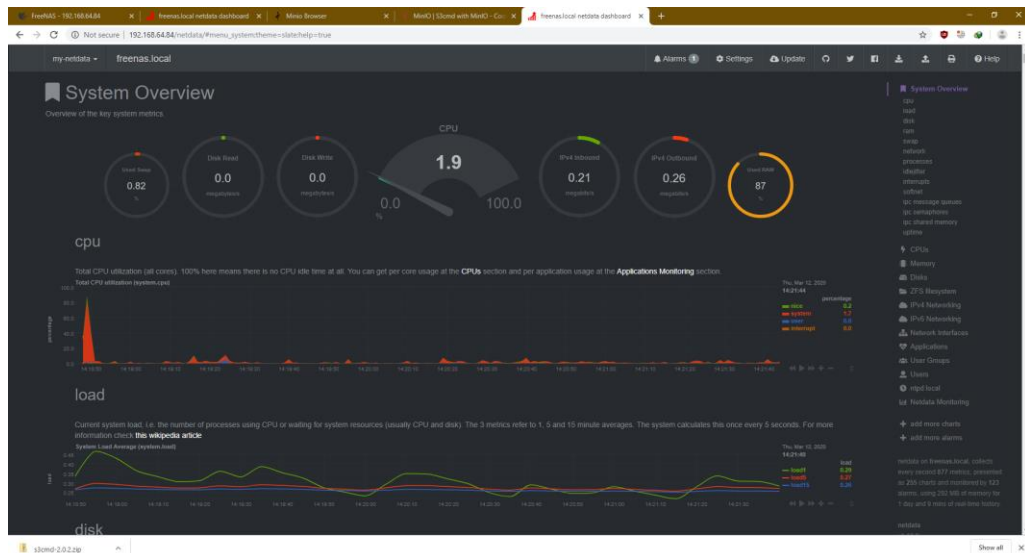
10. Aktifkan running dan checklist pada net data



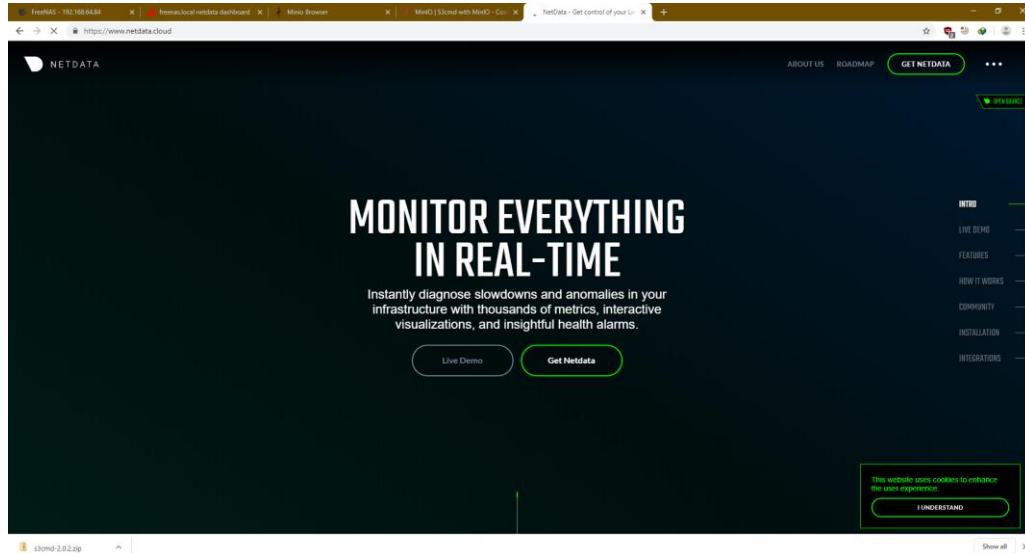
Untuk mengetahui monitoringnya, klik launch pada kolom action, hasilnya sebagai berikut



Atau dengan cara <http://IPFREENAS/netdata>, hasilnya akan sama seperti berikut



Untuk dokumentasi dapat dilihat di <https://www.netdata.cloud/> mengenai net data



Mencoba jails dengan transmission

FreeNAS juga dapat digunakan sebagai mesin downloader torrent dengan menggunakan aplikasi transmission. Fitur yang ada di FreeNAS dapat dikombinasikan.

Selanjutnya bisa dilihat di youtube,