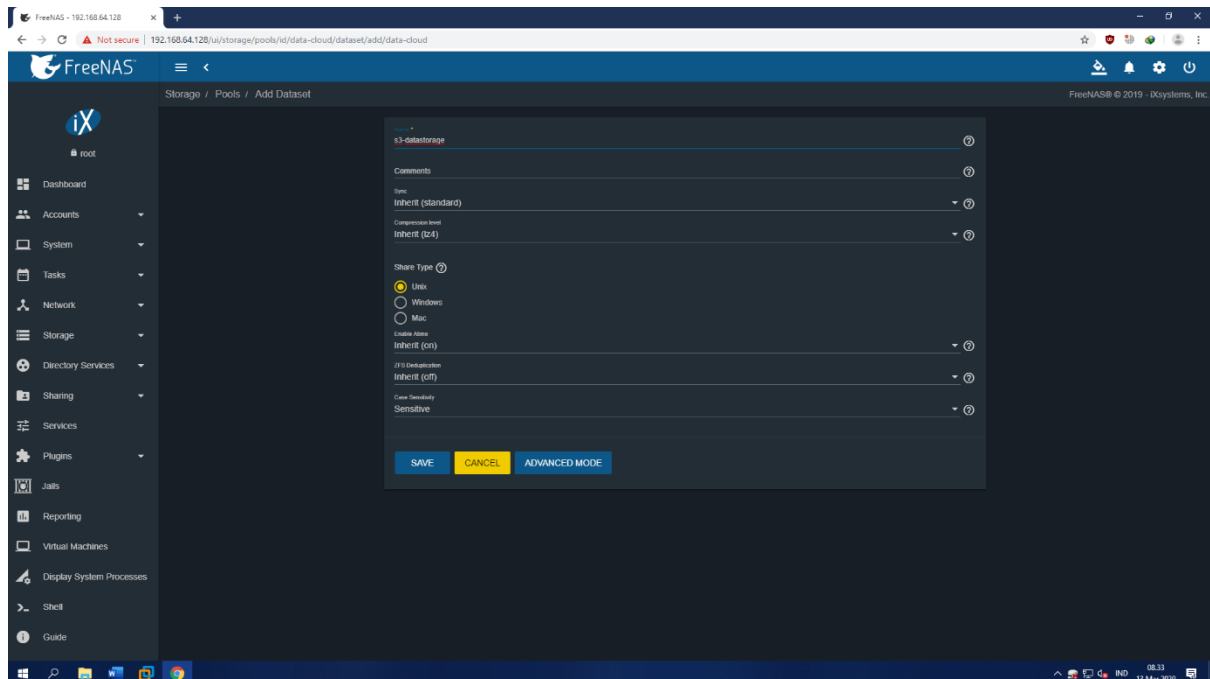


Nama : Dzaky Muhammad Iqbal
NIM : 123170085
Kelas : Prak TCC (C)

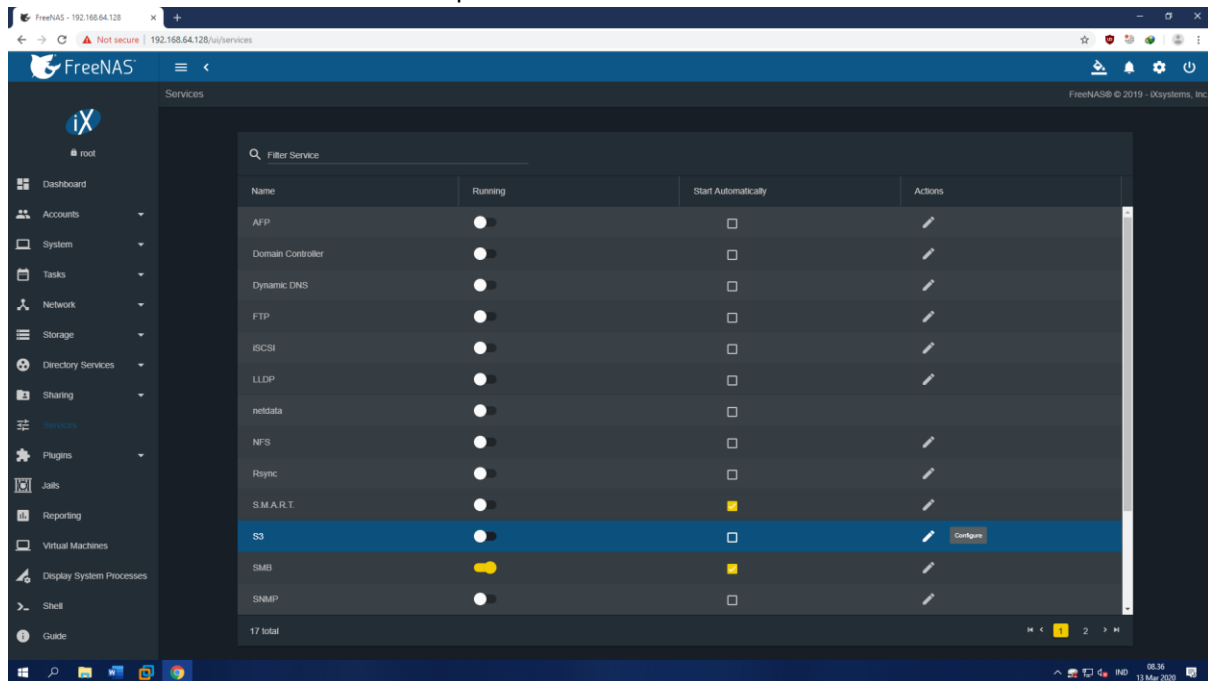
Konfigurasi Layanan Cloud dengan FreeNAS

- S3 Bucket service
Protokol penyimpanan berbasis obyek yang telah digunakan oleh banyak vendor cloud comp, contoh amazone web service.
- Konfigurasi S3 Bucket Service
 1. Login dasboard FreeNAs
 2. Masuk menu Storage ->Pool->data->cloud->data_set->ganti nama dengan (S3-datastorage)
 3. Buat Data Set

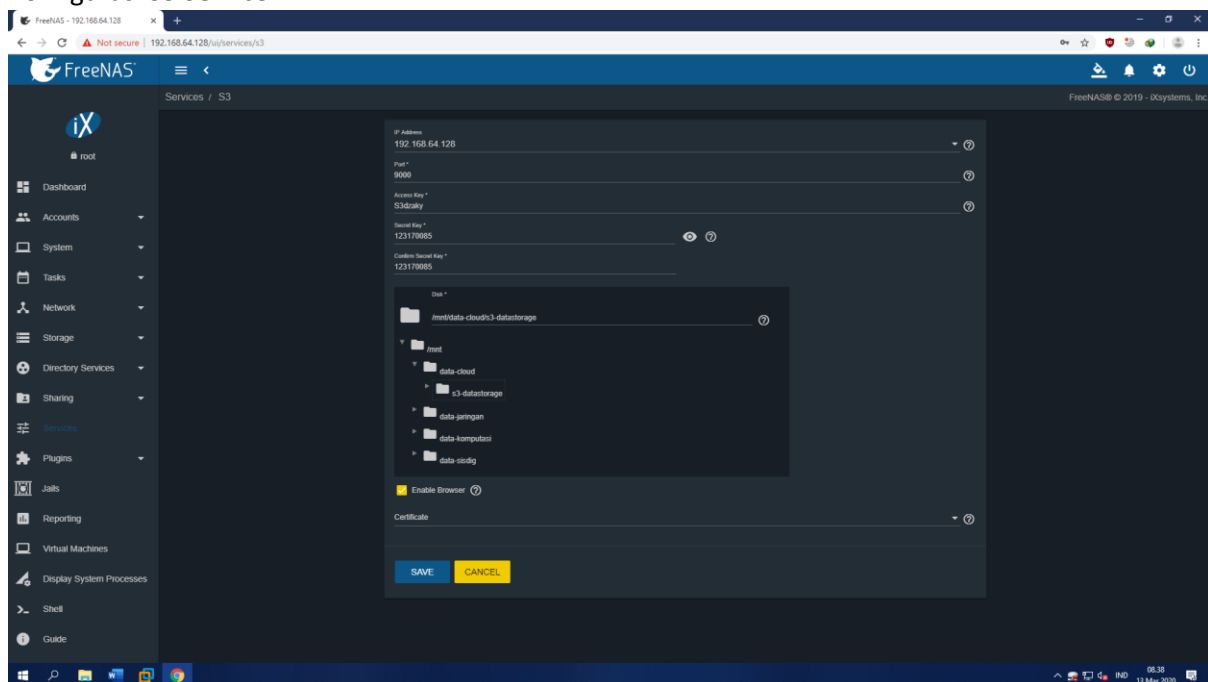


4. Cek data set

5. Masuk Menu Service -> S3-> klik icon pensil



6. Konfigurasi S3 Service

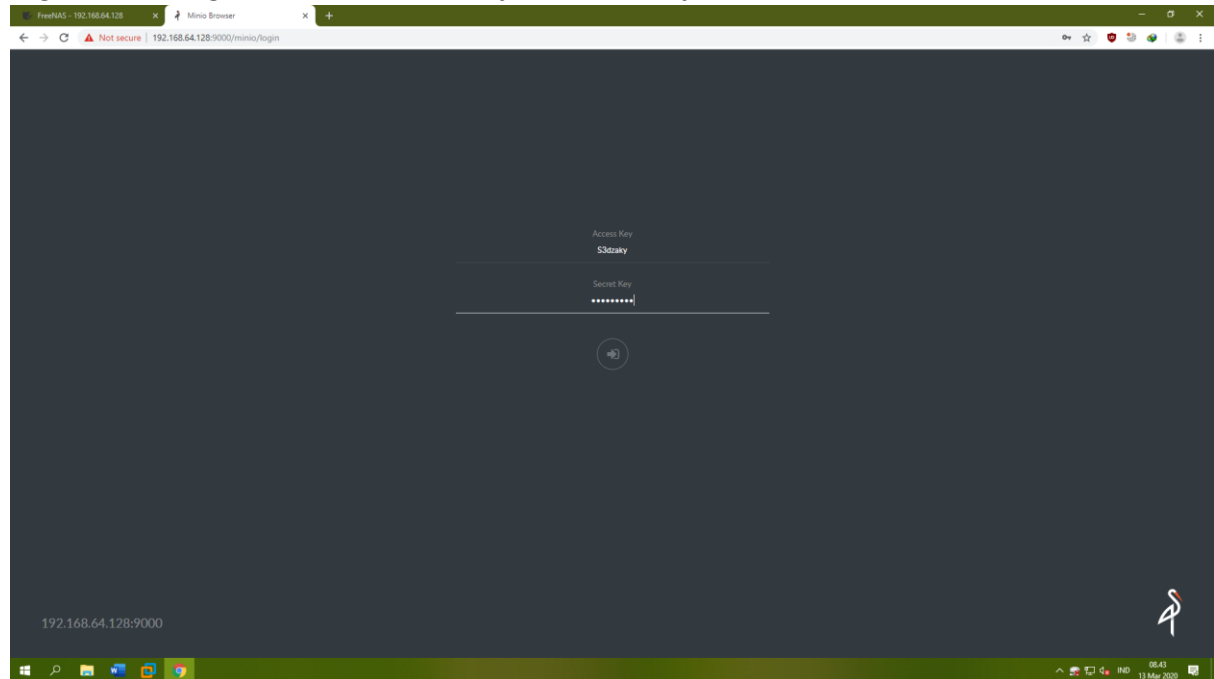


7. Aktivasi layanan S3

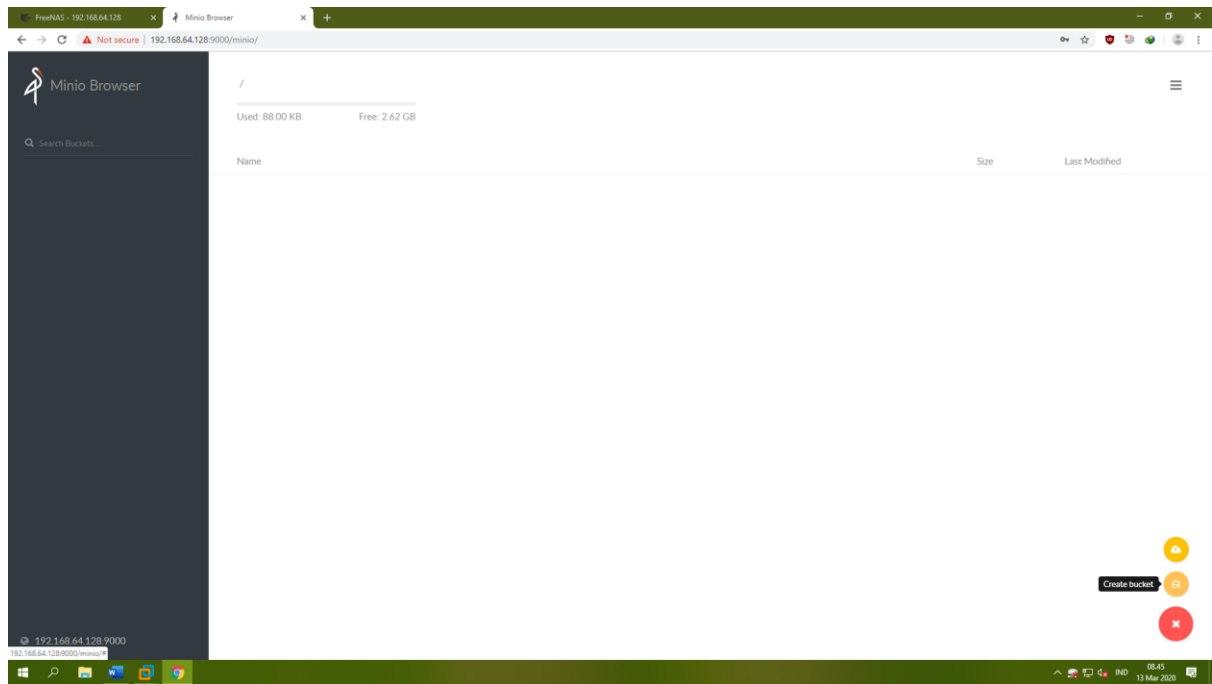


8. Akses S3 dengan MinIO Web Based (<http://192.168.64.128:9000>)

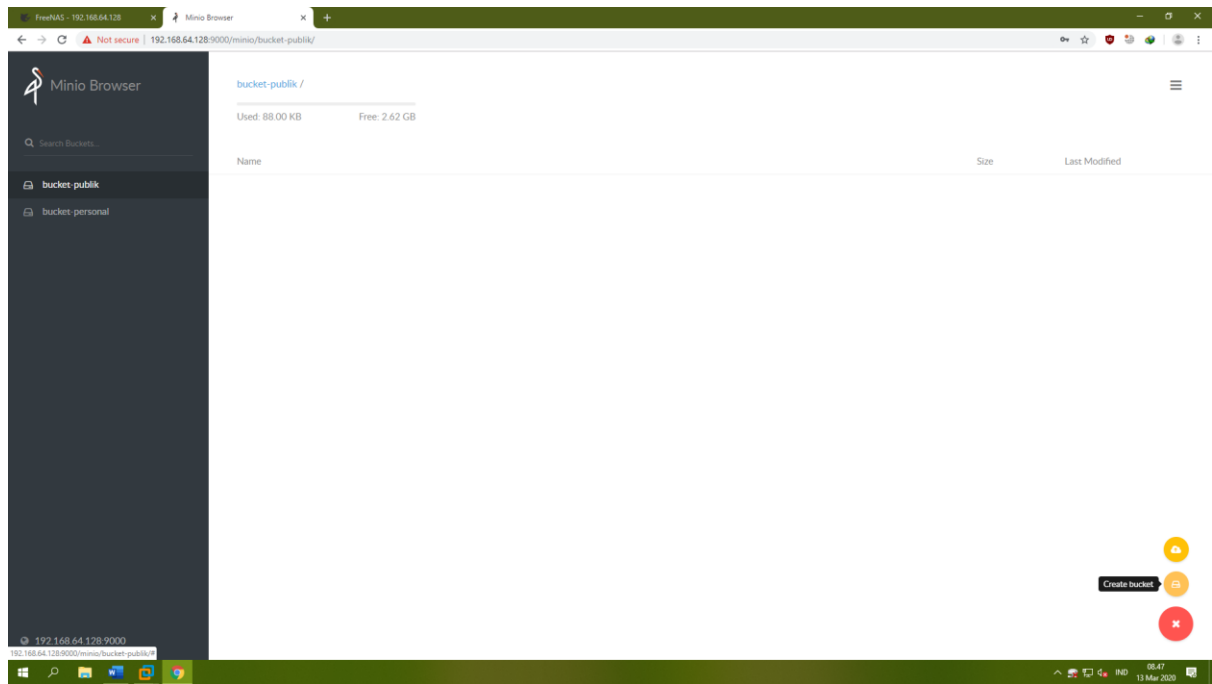
9. Login MinIO dengan masukkan **access key** dan **secret key**



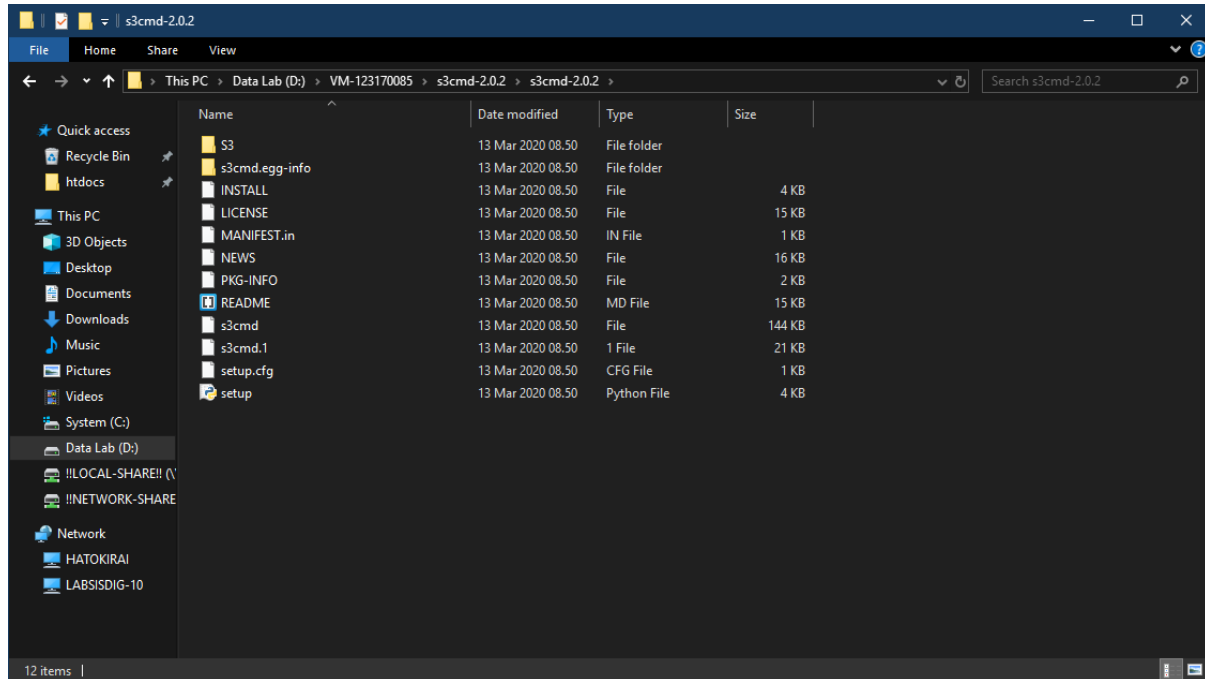
10. Buat Bucket



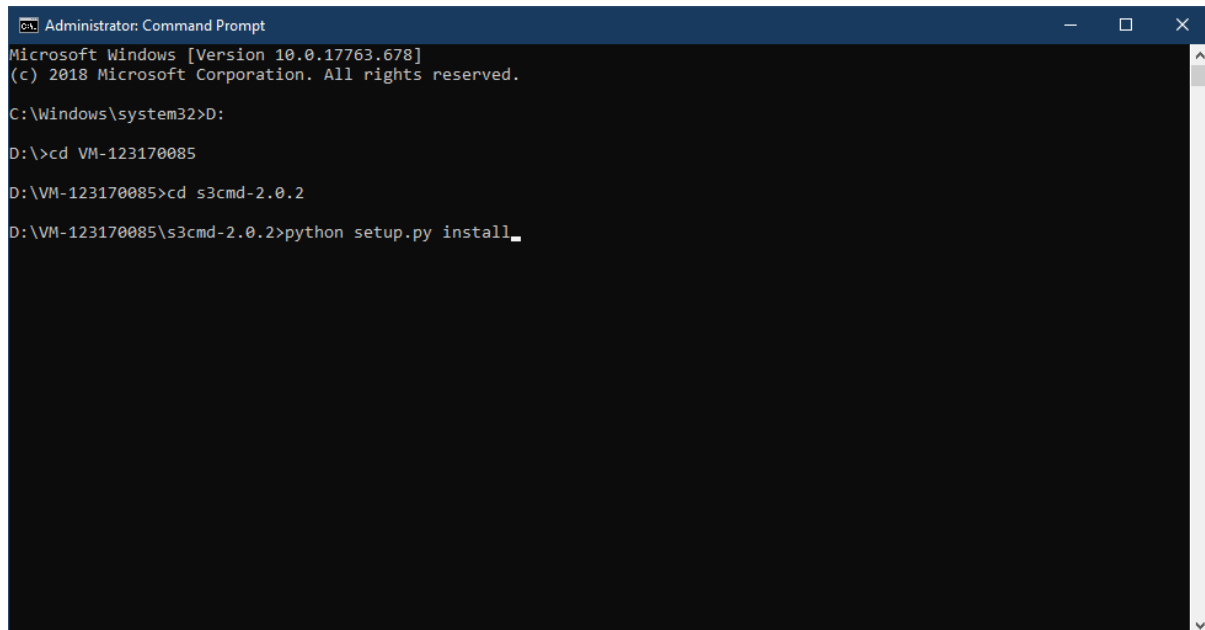
11. Hasil Pembuatan Bucket



12. Mencoba s3cmd untuk upload data. Download dengan (link.upnyk.ac.id/s3cmd)



13. Working directory ke folder S# hasil unduh buka cmd(run adm)->arahkan ke folder s3cmd



14. Konfigurasi s3cmd

```
Select Administrator: Command Prompt
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-123170085\s3cmd-2.0.2\s3cmd-2.0.2>python s3cmd--configure
python: can't open file 's3cmd--configure': [Errno 2] No such file or directory

D:\VM-123170085\s3cmd-2.0.2\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: S3dzaky
Secret Key: 123170085
Default Region [US]:

Use "s3.amazonaws.com" for S3 Endpoint and not modify it to the target Amazon S3.
S3 Endpoint [s3.amazonaws.com]: 192.168.64.128:9000
```

15. Masukkan access key dan secret key

```
Select Administrator: Command Prompt
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-123170085\s3cmd-2.0.2\s3cmd-2.0.2>python s3cmd--configure
python: can't open file 's3cmd--configure': [Errno 2] No such file or directory

D:\VM-123170085\s3cmd-2.0.2\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: S3dzaky
Secret Key: 123170085
Default Region [US]:

Use "s3.amazonaws.com" for S3 Endpoint and not modify it to the target Amazon S3.
S3 Endpoint [s3.amazonaws.com]: 192.168.64.128:9000

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.
```

16. Bagian yang dikosongkan

```
Select Administrator: Command Prompt

Access Key: S3dzaky
Secret Key: 123170085
Default Region [US]:

Use "s3.amazonaws.com" for S3 Endpoint and not modify it to the target Amazon S3.
S3 Endpoint [s3.amazonaws.com]: 192.168.64.128:9000

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 [%(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: S3dzaky
Secret Key: 123170085
Default Region: US
S3 Endpoint: 192.168.64.128:9000
```

17. Parameter konfigurasi

```
Select Administrator: Command Prompt

S3 Endpoint [s3.amazonaws.com]: 192.168.64.128:9000

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 [%(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: S3dzaky
Secret Key: 123170085
Default Region: US
S3 Endpoint: 192.168.64.128:9000
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

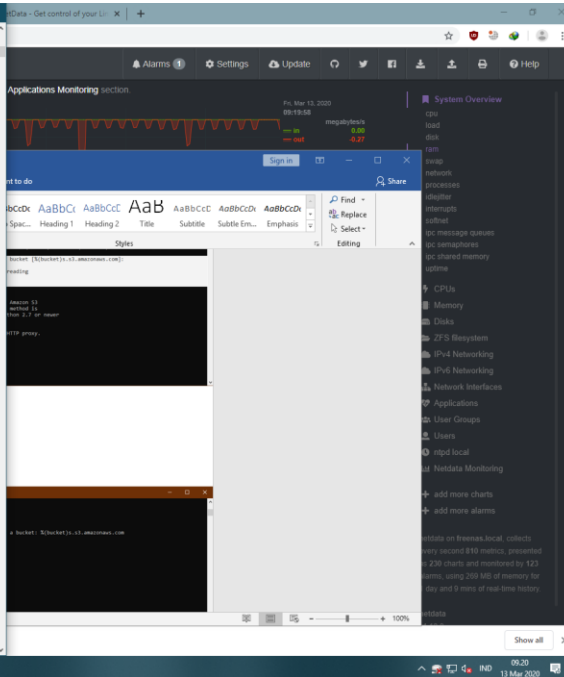
Test access with supplied credentials? [Y/n] Y
Please wait, attempting to list all buckets...
Success. Your access key and secret key worked fine :-))

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

Data settings saved to 'C:\Users\Lab Informatika\AppData\Roaming\s3cmd.ini'

D:\VM-123170085\s3cmd-2.0.2\s3cmd-2.0.2>python s3cmd ls
'python' is not recognized as an internal or external command,
operable program or batch file.

D:\VM-123170085\s3cmd-2.0.2\s3cmd-2.0.2>
```



18. Mencoba Perintah s3cmd

```
Select Administrator: Command Prompt

New settings:
Access Key: S3dzaky
Secret Key: 123170085
Default Region: US
S3 Endpoint: 192.168.64.128:9000
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:\VM-123170085\s3cmd-2.0.2\s3cmd-2.0.2>pyhton s3cmd ls
'pyhton' is not recognized as an internal or external command,
operable program or batch file.

D:\VM-123170085\s3cmd-2.0.2\s3cmd-2.0.2>
```

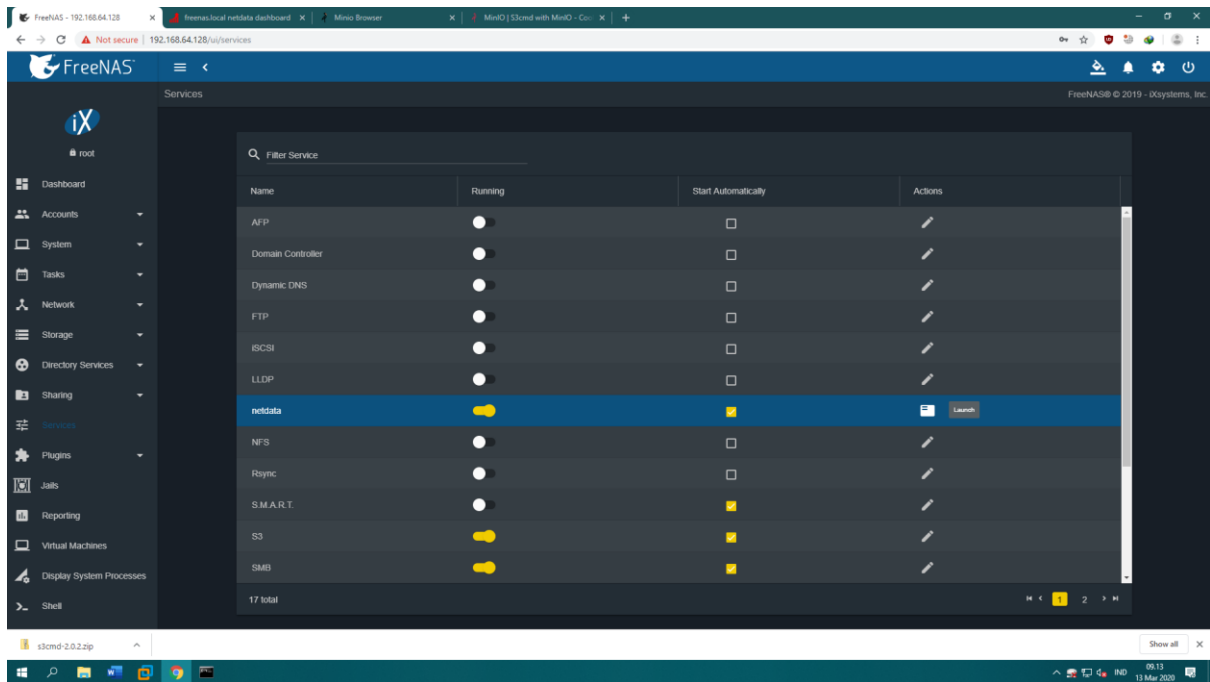
19. Menambah data bucket

The screenshot displays the MinIO documentation website in a web browser. The left sidebar contains a navigation menu with links to various MinIO resources. The main content area is titled '4. Commands' and provides instructions on how to use s3cmd with MiniIO. It includes sections for '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'. A code block shows the command 's3cmd put newfile s3://testbucket' and its output 'Bucket "s3://testbucket/" created'. The browser's address bar shows the URL 'https://docs.min.io/docs/s3cmd-with-minio.html'.

Monitoring Net data

Cara penggunaan NETDATA

1. Bagian menu service->netdata-.hidupkan kemudian ->launch
2. IPFREENAS/netdata



Hasilnya

