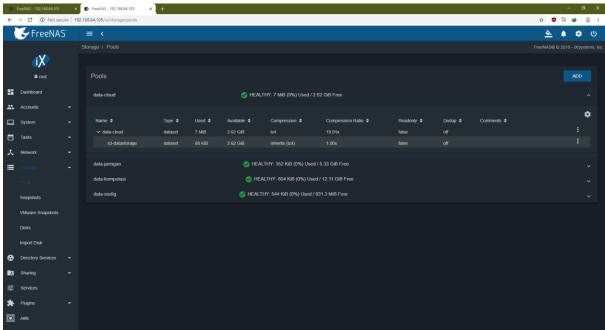
Prak. Cloud Computing (C)

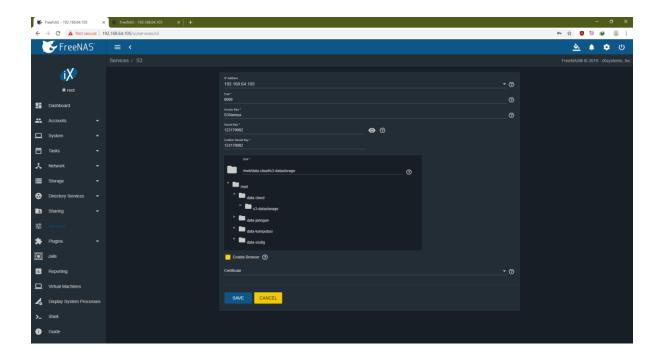
Konfigurasi Layanan Cloud Computing Pada FreeNAS

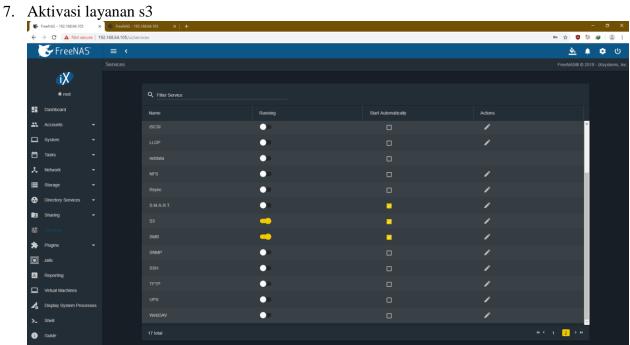
Langkah Konfigurasi S3 Bucket Service

- 1. Login Dashboard
- 2. Masuk Menu Storage Pool
- 3. Buat Dataset Baru
- 4. Hasil Pembuatan Dataset

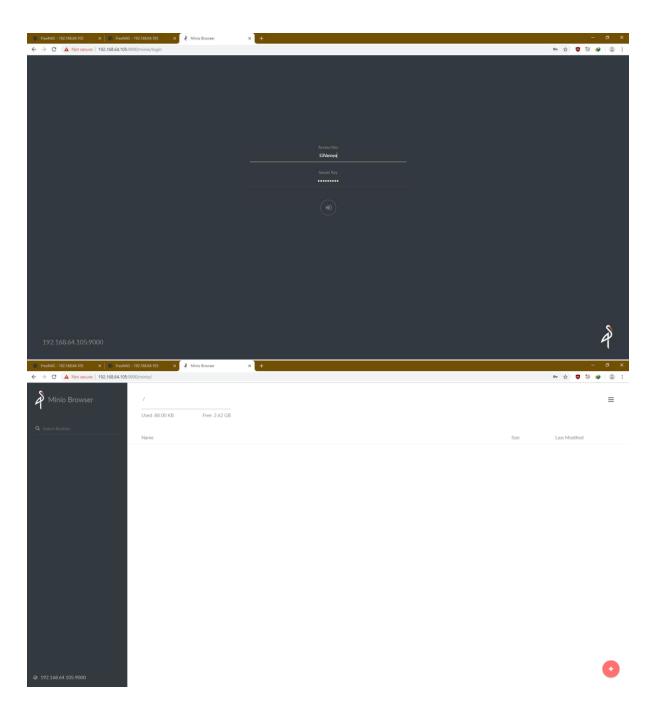


- 5. Masuk ke menu services
- 6. Konfigurasi S3 services

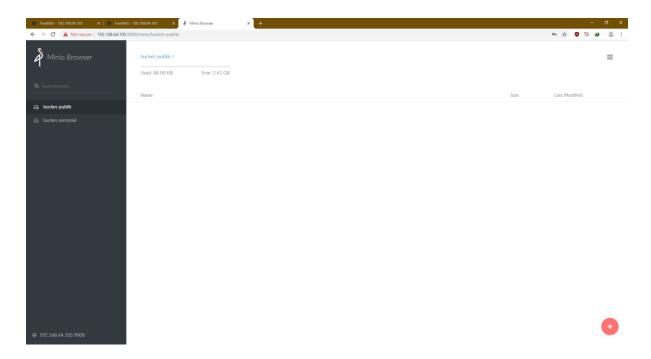




- 8. Akses layanan s3 dengan MiniIO Web Based (http://IP.FREENAS:9000)
- 9. Login MinIO



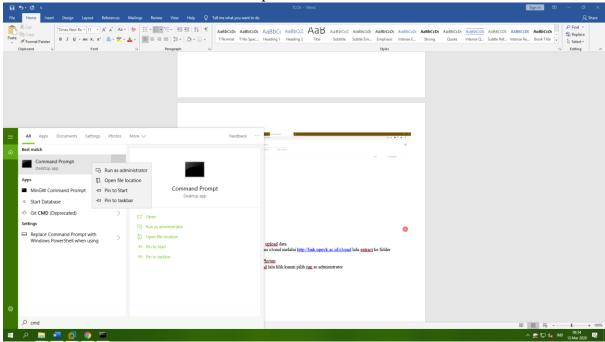
- 10. Membuat bucket baru dengan nama bucket-personal dan bucket-publik
- 11. Hasil pembuatan bucket



12. Mencoba s3cmd untuk upload data Download paket aplikasi s3cmd melalui http://link.upnyk.ac.id/s3cmd lalu extract ke folder VM-NIM

13. Install s3cmd dengan Phyton

Klik start lalu ketik cmd lalu klik kanan pilih run as administrator



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:\xcd VM-123170082

D:\VM-123170082\xcd s3cmd-2.0.2 \text{phyton setup.py install}
'phyton' is not recognized as an internal or external command, operable program or batch file.

D:\VM-123170082\xcd s3cmd-2.0.2 \text{python setup.py install}
Vising xml.etree.ElementTree for XML processing running install running bdist_egg running egg_info
writing s3cmd.egg-info\PKG-INFO
writing s3cmd.egg-info\PKG-INFO
writing s7cmd.egg-info\PKG-INFO
writing requirements to s3cmd.egg-info\text{dependency_links.txt}
writing requirements to s3cmd.egg-info\text{dependency_level.txt}
reading manifest file 's3cmd.egg-info\SOURCES.txt'
installing library code to build\bdist.win32\text{egg}
running install_lib
running build_py
creating build
creating build
creating build
creating build
```

15. Konfigurasi s3cmd

Dengan mengetikkan "phyton s3cmd -configure"

```
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\requires.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://files.pythonhosted.org/packages/65/eb/1f97cb97bfc2390a276960c6fae16075da282f5058082d4cb10c6c5c1dba/s
ix-1.14.0-py2.py3-none-any.whl#sha256=8f3cd2e254d8f793e7f3d6d9df77b92252b52637291d0f0da013c76ea2724b6c
Best match: 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-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-123170082\33cmd-2.0.2>python s3cmd--configure
python: can't open file 's3cmd--configure': [Errno 2] No such file or directory

D:\VM-123170082\33cmd-2.0.2>python s3cmd --configure
ERROR: Option --proserve is not yet supported on MS Windows platform. Assuming --no-preserve.
ERROR: Option --proserve 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.
```

16. Parameter konfigurasi

Access Key isikan sesuai S3nickname

Secret Key isikan sesuai NIM

Region kosongkan

Endpoint isikan IP.FREENAS:9000

Encryption kosongkan

GPG kosongkan

HTTPS protocol isikan No.

Yang lain kosongkan

Lalu ketik Y

```
Administrator: Command Prompt - python s3cmd --configure
Access key and Secret key are your identifiers for Amazon S3. Leave them empty for using the env variables.
Access Key: S3Vannya
Secret Key: 123170082
Default Region [US]:
Use "s3.amazonaws.com" for S3 Endpoint and not modify it to the target Amazon S3.
S3 Endpoint [s3.amazonaws.com]: 192.168.64.105:9000
Use "%(bucket)s.s3.amazonaws.com" to the target Amazon 53. "%(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]: 1
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: S3Vannya
Secret Key: 123170082
Default Region: US
  Administrator: Command Prompt - python s3cmd --configure
if the target S3 system supports dns based buckets.
DNS-style bucket+hostname:port template for accessing a bucket [%(bucket)s.s3.amazonaws.com]: 1
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: S3Vannya
Secret Key: 123170082
Default Region: US
    S3 Endpoint: 192.168.64.105:9000
   DNS-style bucket+hostname:port template for accessing a bucket: 1
   Encryption password:
Path to GPG program: None
Use HTTPS protocol: False
   HTTP Proxy server name:
HTTP Proxy server port: 0
   est access with supplied credentials? [Y/n] Y
```

```
Administrator Command Prompt

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: 53Vannya
Secret Key: 123170082

Default Region: US

S3 Endpoint: 192.168.64.105:9000

DNS-style bucket+hostname:port template for accessing a bucket: 1
Encryption password:
Path to GPG program: None

Use HTTPS protocol: False

HTTP Proxy server name:

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-123170082\S3cmd-2.0.2>_
```

17. Mencoba perintah s3cmd Ketikkan python s3cmd ls

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

New settings:
Access Key: S3Vannya
Secret Key: 123170082
Default Region: US
S3 Endpoint: 192.168.64.105:9000
DNS-style bucket+hostname:port template for accessing a bucket: 1
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-123170082\s3cmd-2.0.2>python s3cmd ls
2020-03-13 01:47 s3://bucket-personal
2020-03-13 01:47 s3://bucket-personal
```

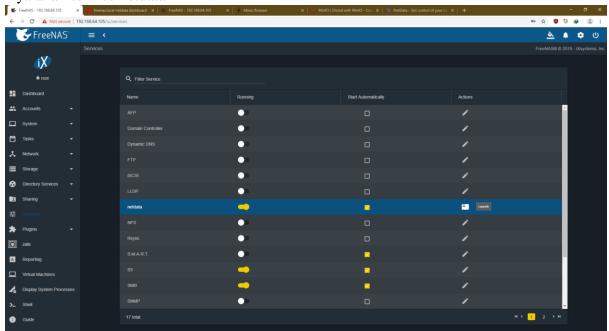
18. Buka dokumentasi s3cmd melalui https://docs.min.io./docs/s3cmd-with-minio.html Untuk upload file

```
s3cmd put newfile s3://testbucket

upload: 'newfile' -> 's3://testbucket/newfile'
```

Monitoring Dengan Netdata Service

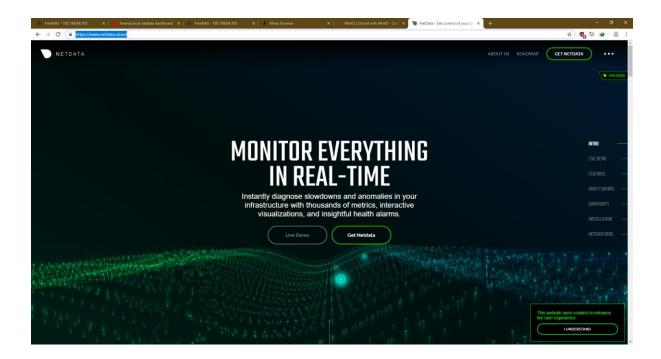
- 1. Login
- 2. Cari netdata dibagian services
- 3. Nyalakan service netdata



4. Tampilan netdata dengan klik launch



5. Dokumentasi netdata (https://www.netdata.cloud/)



Mencoba Jails Dengan Transmission

1.