Nama   : Basrizal reza Astana

Kelas   : 123170089
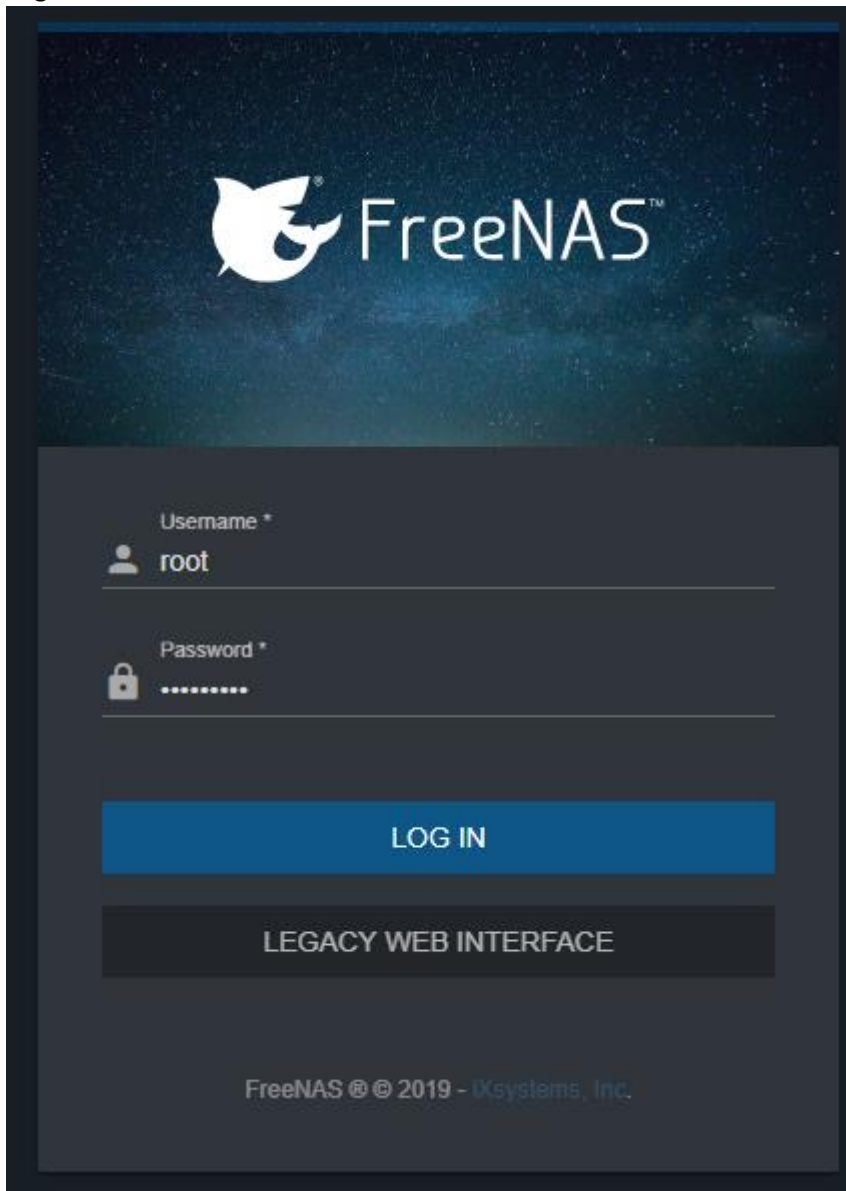
# KONFIGURASI LAYANAN CLOUD COMPUTING PADA FREENAS

## S3 Bucket Service

Contohnya Amazon Web Service,S3 merupakan standarisasi utama penyimpanan berbasis objek

KONFIGURASI S# BUCKET SERVICE

1. Login Dashboard FreeNas

2. Masuk Menu Storage Pool



3. Buat Dataset Baru dengan nama s3_datastorage



4. Lalu pindah ke service

5. Konfigurasi



6. Konfigurasi S3

7. Aktivasi layanan S3



8. Akses Layanan S3 Dengan MinIo Web Based dengan Ip FreeNas:9000
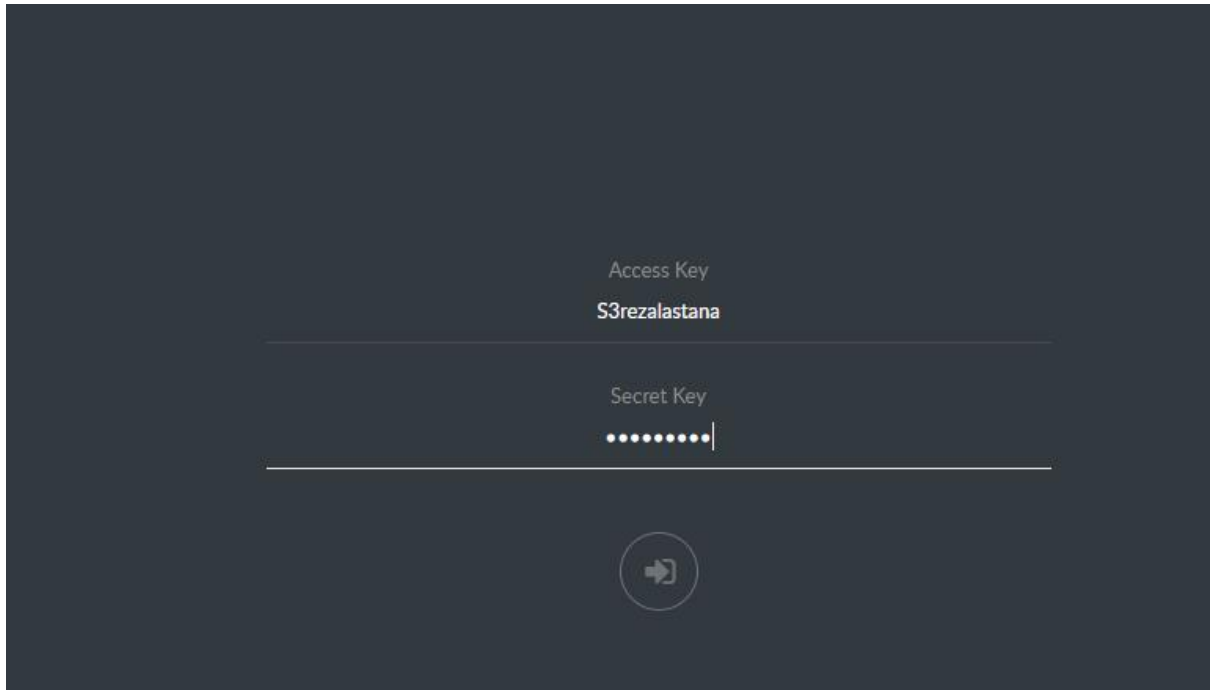
9. Login dengan access key dan secret key yang telah dibuat

Access Key

S3rezalastana

Secret Key

•••••••••

10. Tampilan Dashboard MinIo

/

Used: 88.00 KB          Free: 2.62 GB

Minio Browser

Q Search Buckets...

Name                                                    Size          Last Modified

192.168.64.89:9000
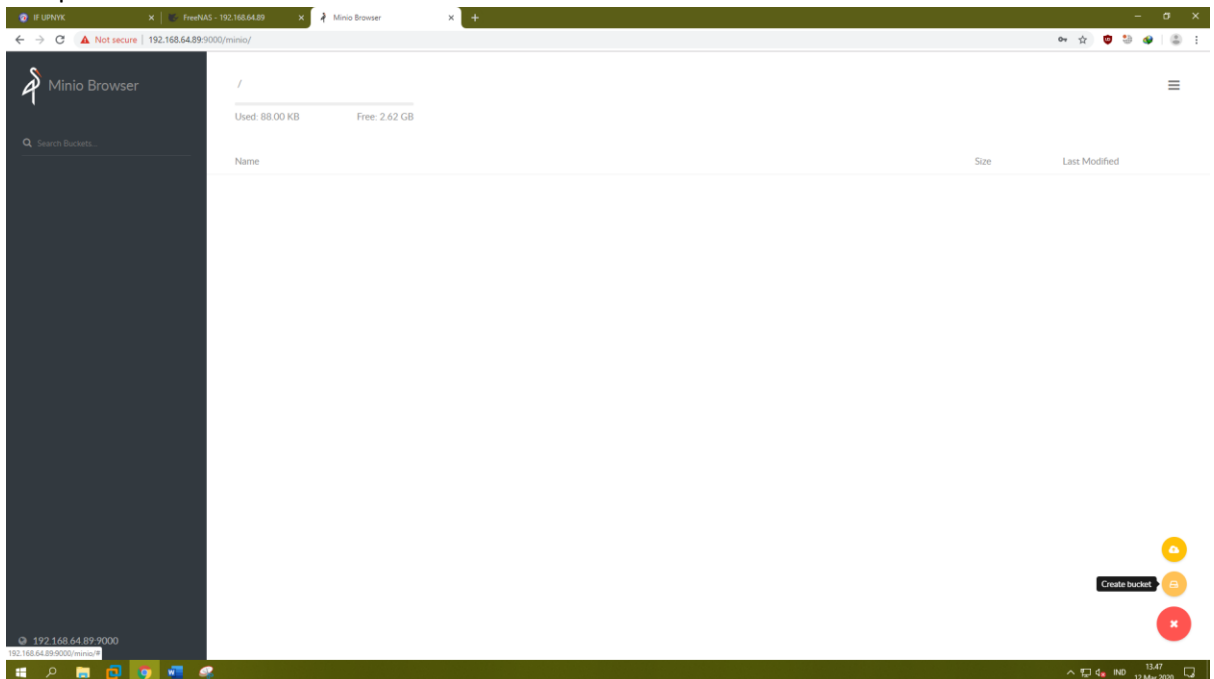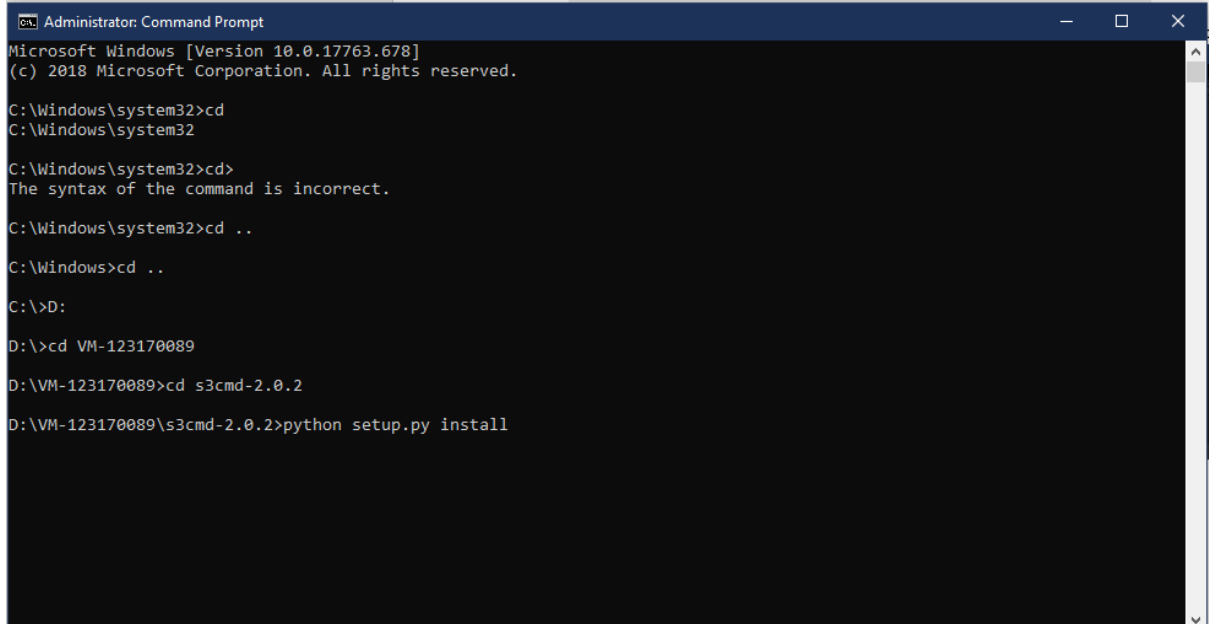
11. Buat bucket-personal dan bucket-public
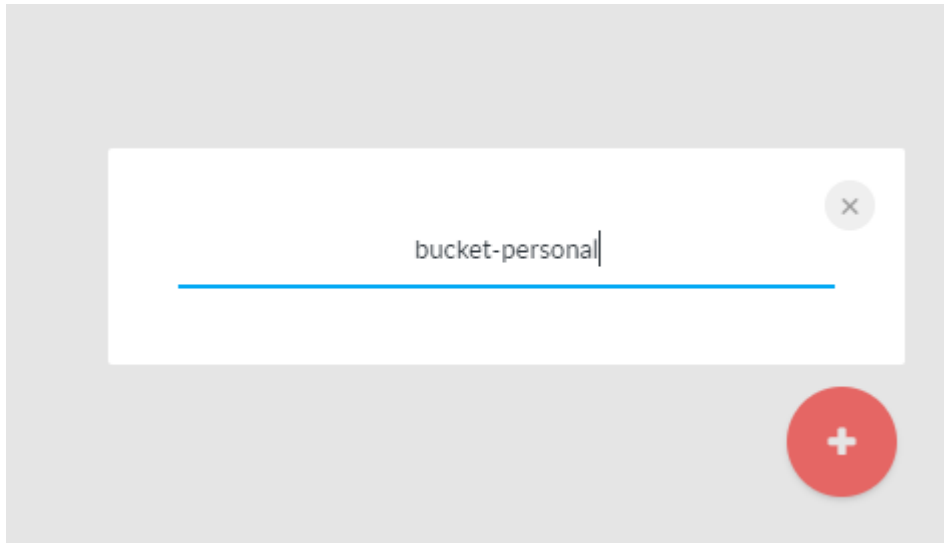


12. Download s3cmd untuk upload data. Download apada laman http://link.upnyk.ac.id/s3cmd
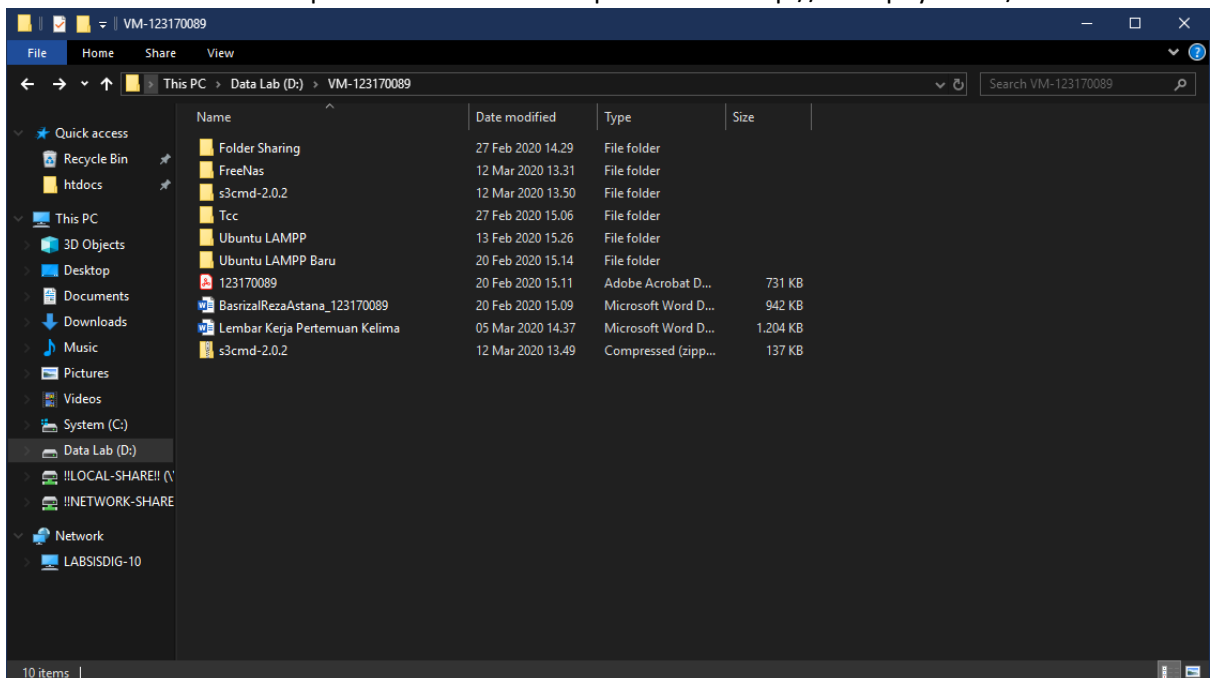
13. Lalu buka CMD run as administrator
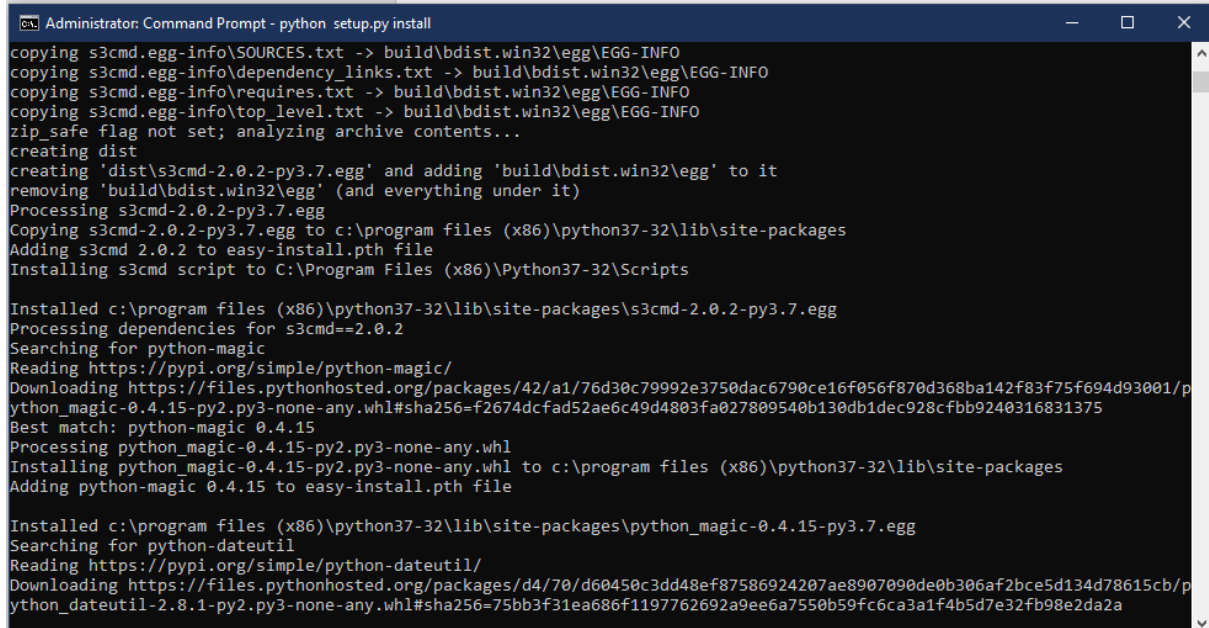


```
Administrator: Command Prompt

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

C:\Windows\system32>cd
C:\Windows\system32

C:\Windows\system32>cd>
The syntax of the command is incorrect.

C:\Windows\system32>cd ..

C:\Windows>cd ..

C:\>D:

D:\>cd VM-123170089

D:\VM-123170089>cd s3cmd-2.0.2

D:\VM-123170089\s3cmd-2.0.2>python setup.py install
```

14. Proses Install setup py



```
Administrator: Command Prompt - python setup.py install

copying s3cmd.egg-info\SOURCES.txt -> build\bdist.win32\egg\EGG-INFO
copying s3cmd.egg-info\dependency_links.txt -> build\bdist.win32\egg\EGG-INFO
copying s3cmd.egg-info\requires.txt -> build\bdist.win32\egg\EGG-INFO
copying s3cmd.egg-info\top_level.txt -> build\bdist.win32\egg\EGG-INFO
zip_safe flag not set; analyzing archive contents...
creating dist
creating 'dist\s3cmd-2.0.2-py3.7.egg' and adding 'build\bdist.win32\egg' to it
removing 'build\bdist.win32\egg' (and everything under it)
Processing s3cmd-2.0.2-py3.7.egg
Copying s3cmd-2.0.2-py3.7.egg to c:\program files (x86)\python37-32\lib\site-packages
Adding s3cmd 2.0.2 to easy-install.pth file
Installing s3cmd script to C:\Program Files (x86)\Python37-32\Scripts

Installed c:\program files (x86)\python37-32\lib\site-packages\s3cmd-2.0.2-py3.7.egg
Processing dependencies for s3cmd==2.0.2
Searching for python-magic
Reading https://pypi.org/simple/python-magic/
Downloading https://files.pythonhosted.org/packages/42/a1/76d30c79992e3750dac6790ce16f056f870d368ba142f83f75f694d93001/p
ython_magic-0.4.15-py2.py3-none-any.whl#sha256=f2674dcfad52ae6c49d4803fa027809540b130db1dec928cfbb9240316831375
Best match: python-magic 0.4.15
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
ython_dateutil-2.8.1-py2.py3-none-any.whl#sha256=75bb3f31ea686f1197762692a9ee6a7550b59fc6ca3a1f4b5d7e32fb98e2da2a
```

15. Konfigurasi
16. Konfigurasi s3cmd dengan python s3cmd –configure

17. Masukkan acces dan secret key



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

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-123170089\s3cmd-2.0.2>python s3cmd -configure
ERROR: onfigure: None
ERROR: Configuration file not available.
ERROR: Consider using --configure parameter to create one.

D:\VM-123170089\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: s3rezalastana
Secret Key: 123170089
```

18. Hasil akhir konfigurasi



```
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 [s3rezalastana]: S3rezalastana
Secret Key [123170089]: 123170089
Default Region [US]:

Use "s3.amazonaws.com" for S3 Endpoint and not modify it to the target Amazon S3.
S3 Endpoint [192.168.64.89:9000]: 192.168.64.89:9000

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 [No]: 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: S3rezalastana
  Secret Key: 123170089
  Default Region: US
  S3 Endpoint: 192.168.64.89:9000
  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
```

19. Mencoba perintah s3cmd dengan python s3cmd ls

```
S3 Endpoint: 192.168.64.89:9000
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-123170089\s3cmd-2.0.2>python s3cmd ls
```

```
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-123170089\s3cmd-2.0.2>python s3cmd ls
2020-03-12 06:50  s3://bucket-personal
2020-03-12 06:50  s3://bucket-public

D:\VM-123170089\s3cmd-2.0.2>
```

20. Dokumentasi s3cmd berada di https://docs.min.io/docs/s3cmd-with-minio.html
21. Perintah Upload file dengan mencoba s3://bucket-personal
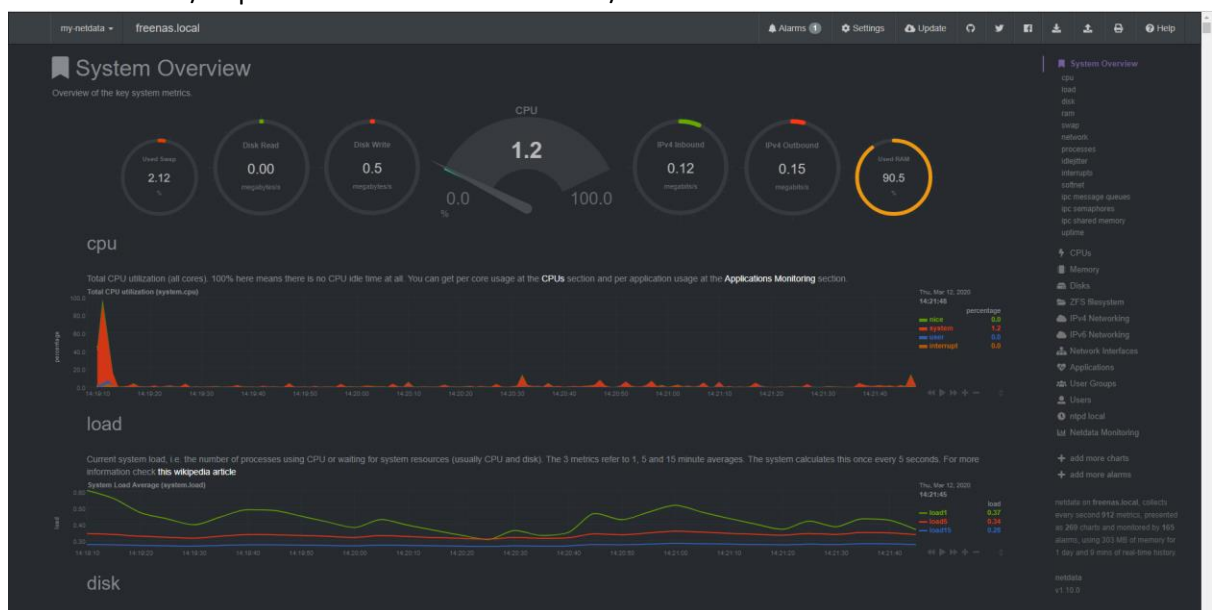

# FITUR SELANJUTNYA ADALAH NETDATA SERVICE


Merupakan sistem layanan monitoring performa sistem secara real-time. Tampilan disediakan dalam bentuk web-based

1. Login
2. Masuk Menu service

3. Nyalakan Services netdata



4. Lalu klik action / dapat diakses melalui IP.FREENAS/netdata



5. Dokumentasi netdata bisa dibuka di laman https://netdata.cloud

**FITUR SELANJUTNYA ADALAH TRANSMISSION WITH JAILS**