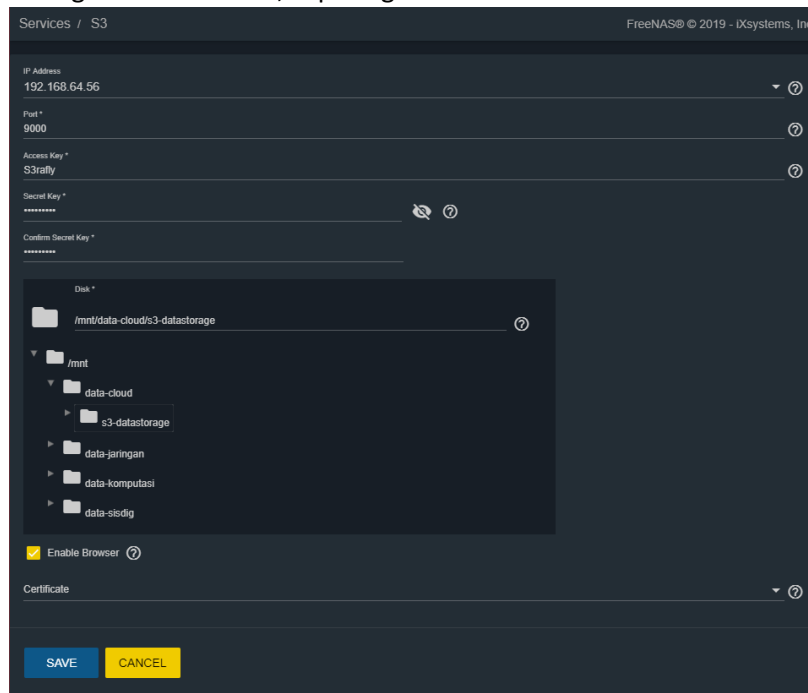Rafly Pradana Putra

123170028

Layanan pada FreeNAS

A. S3 Bucket Service

    S3 merupakan protokol penyimpanan berbasiskan objek yang telah doginakan banyak
    vendor cloud computing, contohnya AWS. Karena S3 merupakan standar utama
    penyimpanan berbasis objek dan harganya lumayan mahal ketika menggunakan AWS, maka
    kita akan mengakalinya dengan membuat layanan serupa menggunakan FreeNAS.

    Tahapan :

    1. Login Dashboard FreeNAS
    2. Masuk menuju storage pool, pada data-cloud buka menu options (titk 3) dan pilih Add
        Dataset
    3. Buat dataset baru dengan nama s3-datastorage, kemudian save
    4. Masuk ke menu services, cari dengan nama s3 dan klik ikon pensil (configure)
    5. Konfigurasi s3 services, seperti gambar dibawah ini :

    6. Aktivasi layanan s3 dengan klik toggle-button running dan centang Start Automatically
    7. Akses layanan S3 dengan MinIO Web Based dengan buka http://IP.FreeNAS:9000
    8. Kemudian login menggunakan acces key dan password yang sudah dibuat tadi.
    9. Berikut adalah tampilan dashboard MinIO
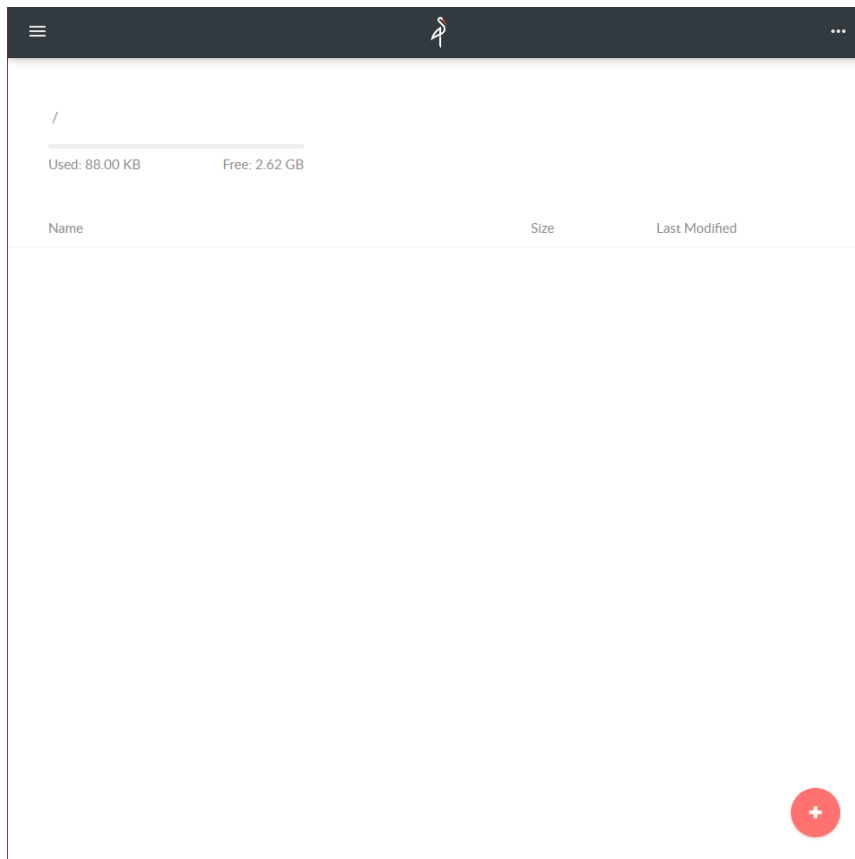
10. Klik tombol panah kemudian creat bucket dengan nama bucket-personal dan bucket-public

11. Mencoba s3cmd untuk upload data

a. Nuka situs http://link.upnyk.ac.id/s3cmd atau https://s3tools.org/download kemudian unduh paket aplikasi s3cmd dalam bentuk zip dan ekstrak ke folder VM-NIM

b. Setelah start kemudian buka cmd dan pilih "Run as administrator" kemudian ikuti perintah seperti gambar dibawah

c. Setelah install, konfigurasi dengan ikuti langkah dibawah:


```
Administrator: Command Prompt                              —    □    ×

D:\VM-123170028\s3cmd-2.0.2>python s3cmd --configure
ERROR: Option --preserve is not yet supported on MS Windows platform. Ass
uming --no-preserve.
ERROR: Option --progress is not yet supported on MS Windows platform. Ass
uming --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: S3rafly
Secret Key: 123170028
Default Region [US]:

Use "s3.amazonaws.com" for S3 Endpoint and not modify it to the target Am
azon S3.
S3 Endpoint [s3.amazonaws.com]: 192.168.64.56:9000

Use "%(bucket)s.s3.amazonaws.com" to the target Amazon S3. "%(bucket)s" a
nd "%(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: S3rafly
  Secret Key: 123170028
  Default Region: US
  S3 Endpoint: 192.168.64.56:9000
  DNS-style bucket+hostname:port template for accessing a bucket: %(bucke
t)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 :-)
```

d. Untuk mengupload, ketikkan "python s3cmd put "namafile" s3://"nama-bucket"

B. NetData
   Tahapan :
   1. Masuk menu services dan pilih NetData dan centang start automatically, lalu klik launch
   2. Untuk dokumentasi buka https://netdata.cloud

C. Transmission
   Transmission merupakan file downloader torrent.