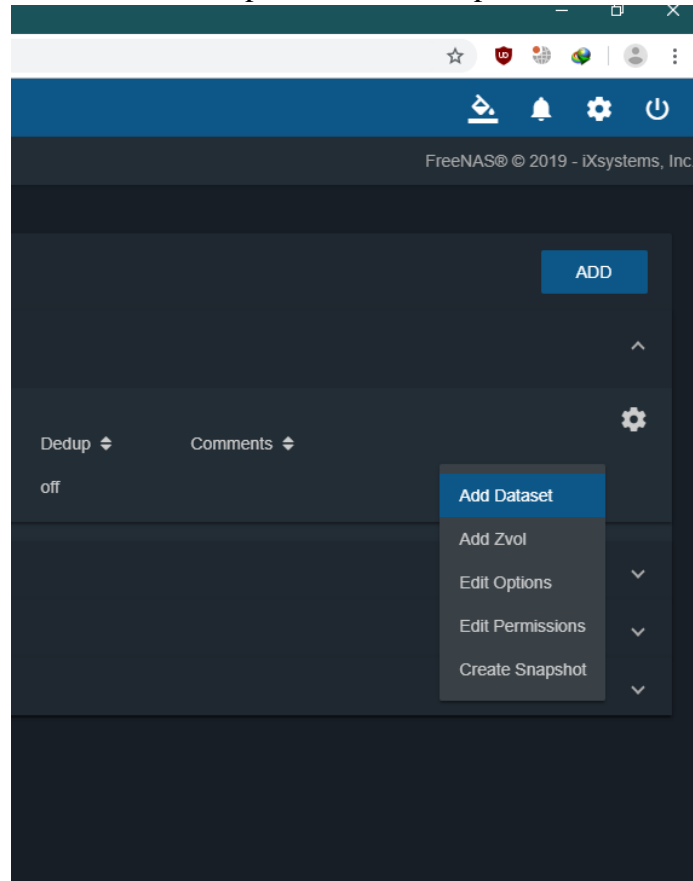


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Materi / Pertemuan ke-6  
Kamis, 12 Maret 2020

### Konfigurasi S3 Bucker Service

1. Buka Freenas
2. Masuk Menu Storage Pool  
Pada pool data-cloud buka menu options, kemudian pilih **add Dataset**



3. Buat Datasets Baru

s3-datastorage ?

Comments ?

Sync  
Inherit (standard) ?

Compression level  
Inherit (lz4) ?

Share Type ?

☒ Unix  
☐ Windows  
☐ Mac

Enable Acl  
Inherit (on) ?

ZFS Deduplication  
Inherit (off) ?

Case Sensitivity  
Sensitive ?

**SAVE** **CANCEL** **ADVANCED MODE**

#### 4. Hasil pembuatan dataset

Pools

data-cloud ✓ HB

Name	Type	Used	Available
data-cloud	dataset	7.03 MiB	2.62 GiB
s3-datastorage	dataset	88 KiB	2.62 GiB

data-jaringan ✓

#### 5. Masuk ke menu service

Cari service dengan nama s3, kemudian konfigur

extdata	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
NFS	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Rsync	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
S.M.A.R.T	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
S3	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
SMB	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
SNMP	<input checked="" type="checkbox"/>	<input type="checkbox"/>	

#### 6. Konfigurasi setting

IP Address  
192.168.64.75

Port  
9000

Access Key  
S3rvo

Secret Key  
123170067

Confirm Secret Key  
123170067

Disk

- /mnt/data-cloud/s3-datastorage
- /mnt
  - data-cloud
    - s3-datastorage
  - data-jaringan
  - data-komputasi
  - data-sisdig

☒ Enable Browser

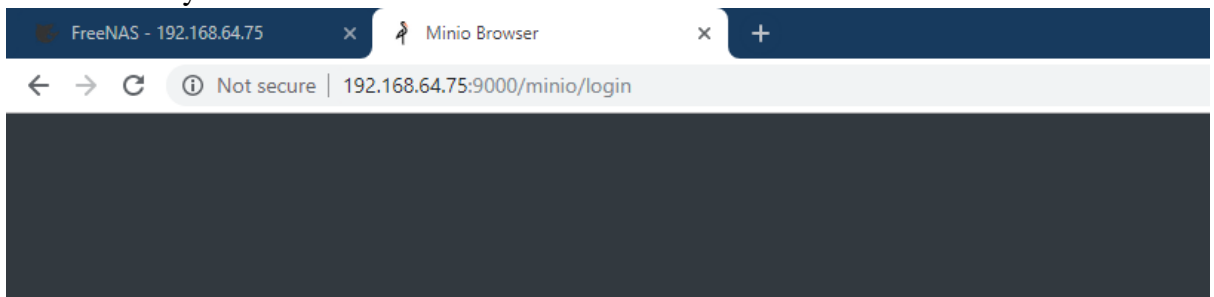
Certificate

SAVE CANCEL

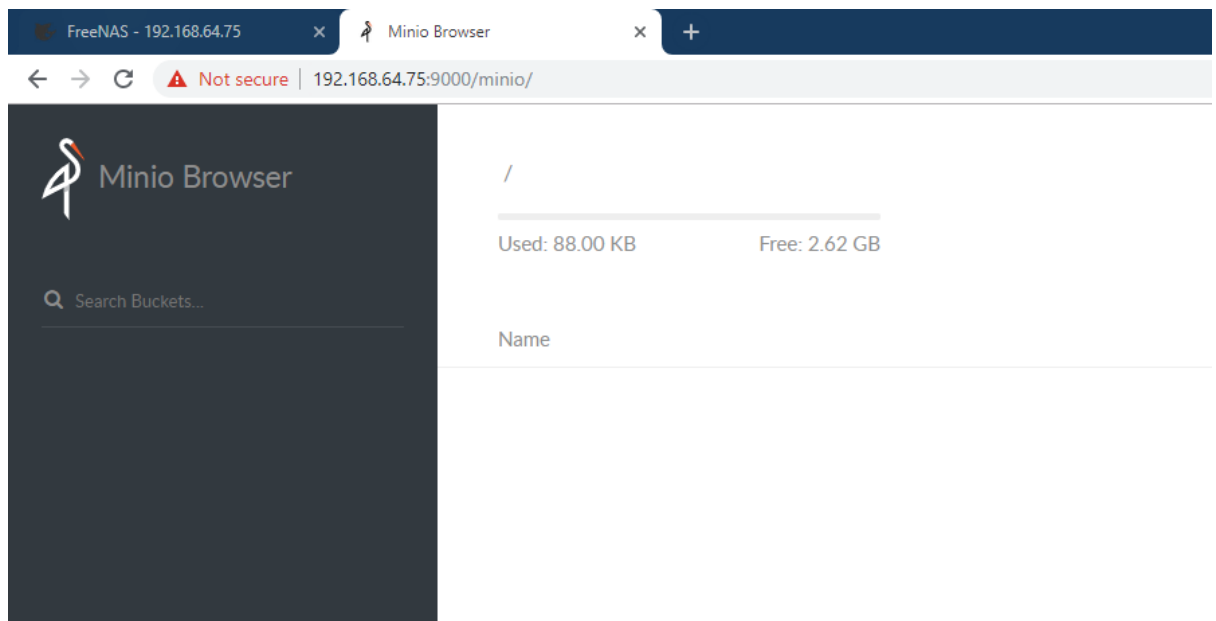
## 7. Running dan ceklist auto start

NFS	<input type="checkbox"/>	<input type="checkbox"/>	
Rsync	<input type="checkbox"/>	<input type="checkbox"/>	
S.M.A.R.T.	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
S3	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
SMB	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
SNMP	<input type="checkbox"/>	<input type="checkbox"/>	
17 total			

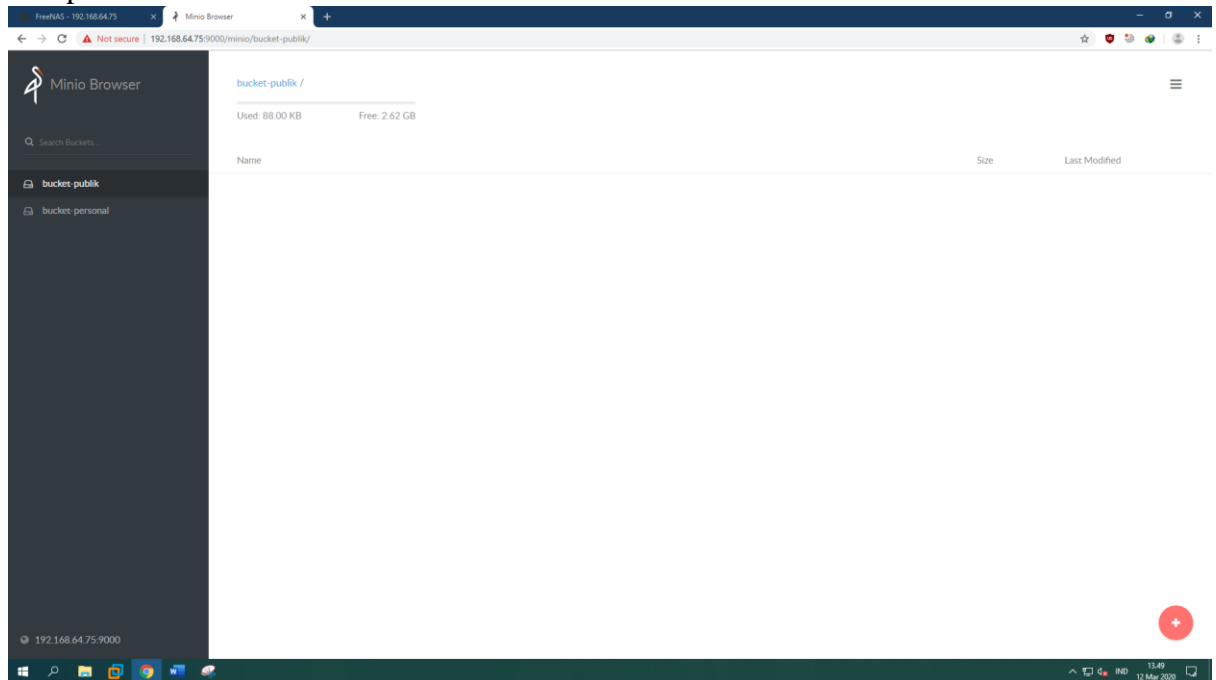
## 8. Buka akses layanan



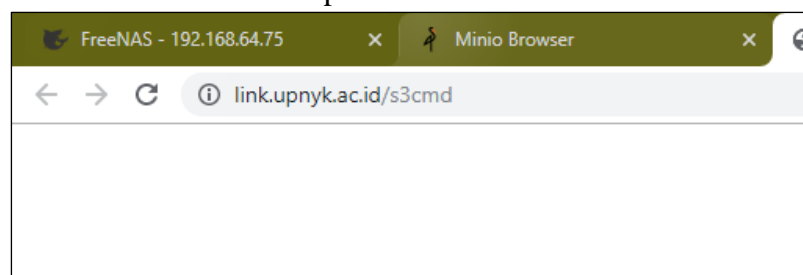
## 9. Kemudian setelah login akan masuk ke halamn ini



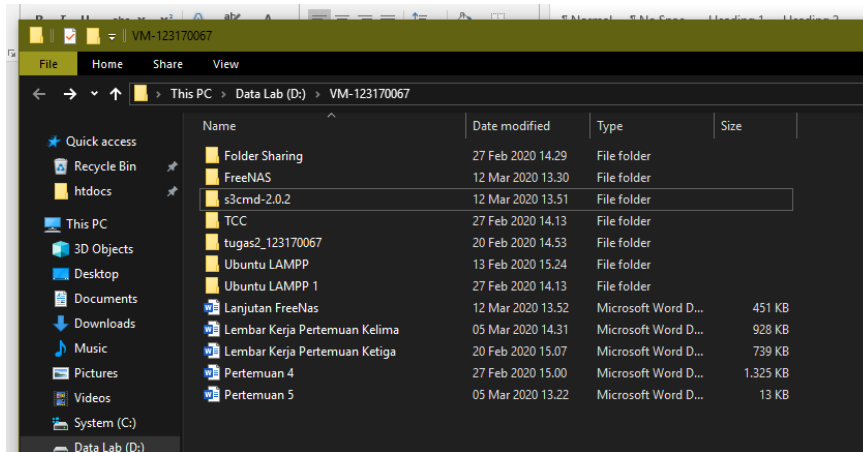
## 10. Tampilan Dasborh minio



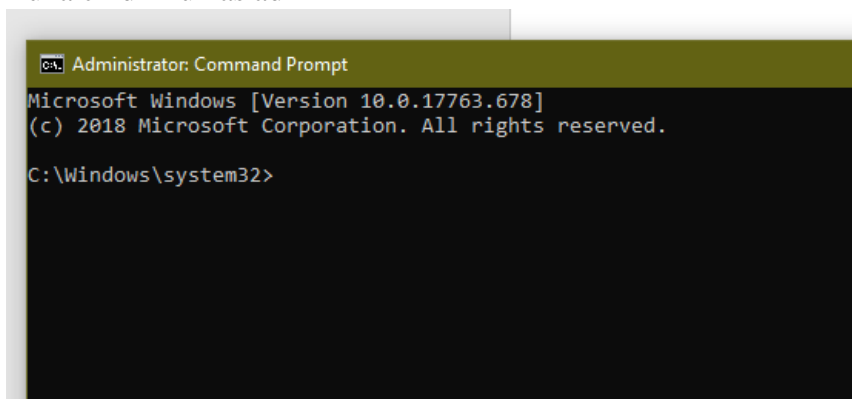
## 11. Mencoba s3cmd untuk upload data



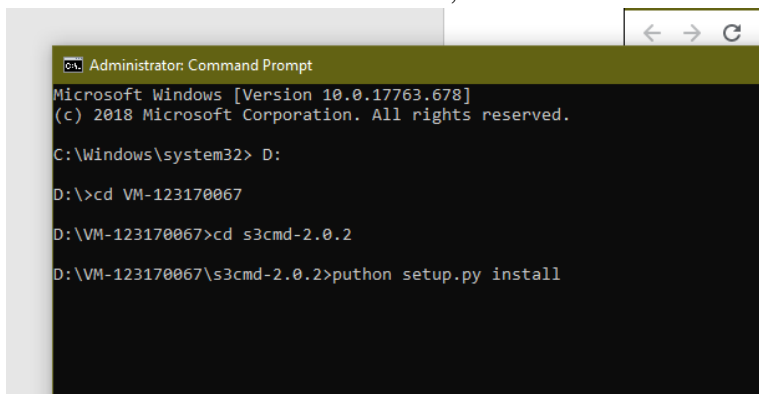
## 12. Kemudian extract ke folder vm-nim



13. Buka cmd – run as admin



14. Arahkan direktori ke folder s3 tadi, kemudian install



15. Setelah intall

```
Administrator: Command Prompt
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/d60450c3dd48ef87586924207ae8907090da0b306af2bce5d134d78615cb/p
python_dateutil-2.8.1-py2.py3-none-any.whl#sha256=75bb3f31ea686f1197762692a9ee6a7550b59fc6ca3a1f4b5d7e32fb98e2da2a
Best match: python-dateutil 2.8.1
Processing python_dateutil-2.8.1-py2.py3-none-any.whl
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\re
quires.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://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-123170067\s3cmd-2.0.2>
```

## 16. Konfigurasi s3cmd

```
Installed c:\program files (x86)\python37-32\lib\site-packages\s
Searching for six>=1.5
Reading https://pypi.org/simple/six/
Downloading https://files.pythonhosted.org/packages/65/eb/1f97cb
ix-1.14.0-py2.py3-none-any.whl#sha256=8f3cd2e254d8f793e7f3d6d9df
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 (
Adding six 1.14.0 to easy-install.pth file

Installed c:\program files (x86)\python37-32\lib\site-packages\s
Finished processing dependencies for s3cmd==2.0.2

D:\VM-123170067\s3cmd-2.0.2>python s3cmd --configure
```

## 17. Parameter konfigurasi

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

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: S3reo
  Secret Key: 123170067
  Default Region: US
  S3 Endpoint: 192.168.64.75:9000
  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
```

## 18. Mencoba perintah cmd

## Python s3cmd ls

```
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.conf'

D:\VM-123170067\s3cmd-2.0.2>python s3cmd ls
2020-03-12 06:48 s3://bucket-personal
2020-03-12 06:48 s3://bucket-publik

D:\VM-123170067\s3cmd-2.0.2>
```

## 19. Hasilnya

```
Success. Your access key and secret key worked fine.

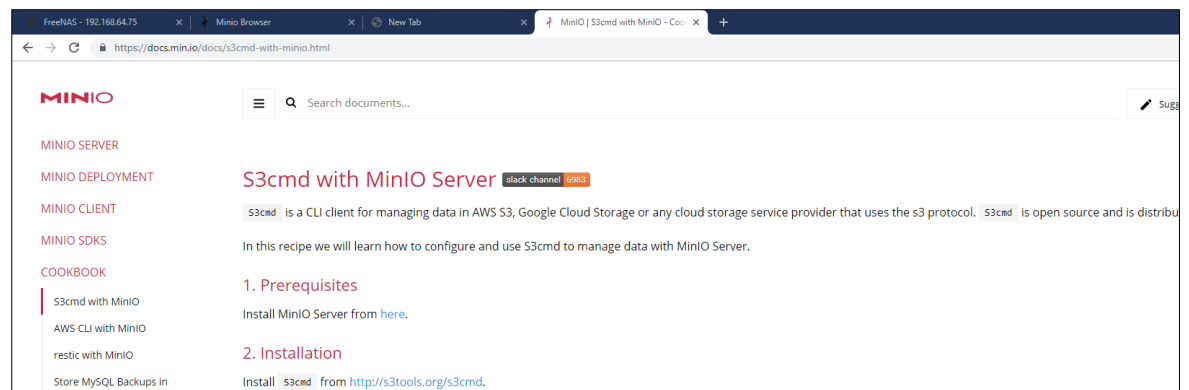
Now verifying that encryption works...
Not configured. Never mind.

Save settings? [y/N] Y
Configuration saved to 'C:\Users\Lab Informatika\AppData\Roaming\s3cmd.conf'

D:\VM-123170067\s3cmd-2.0.2>python s3cmd ls
2020-03-12 06:48 s3://bucket-personal
2020-03-12 06:48 s3://bucket-publik

D:\VM-123170067\s3cmd-2.0.2>
```

## 20. Dokumentasi s3cmd



## 21. Mencoba txt

```
Configuration saved to 'C:\Users\Lab Informatika\AppData\Roaming\s3cmd.conf'

D:\VM-123170067\s3cmd-2.0.2>python s3cmd ls
2020-03-12 06:48 s3://bucket-personal
2020-03-12 06:48 s3://bucket-publik

D:\VM-123170067\s3cmd-2.0.2>python s3cmd put mencoba.txt s3://bucket-publik/
ERROR: Parameter problem: Nothing to upload.

D:\VM-123170067\s3cmd-2.0.2>
```

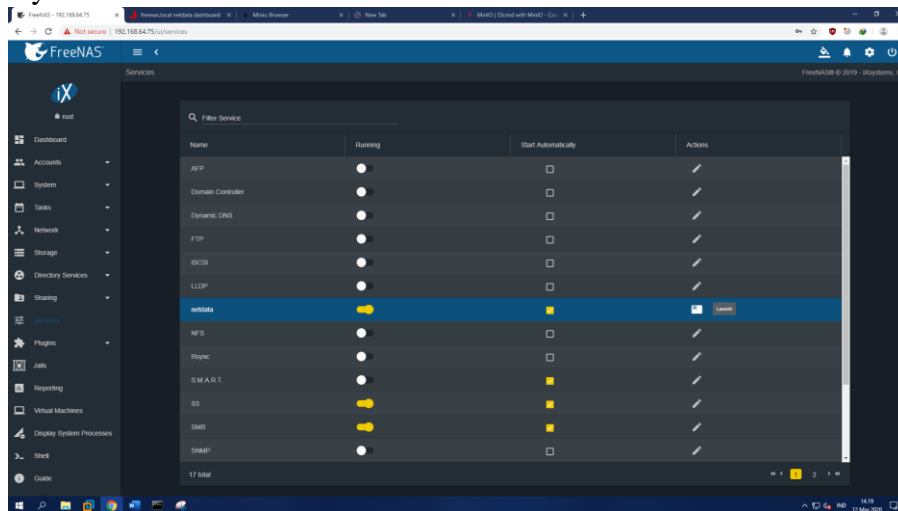
## Monitor dengan Netdata Service

1. Login freenas
2. Masuk menu service

Filter Service

Name	Running	Start Automatically
AFP	<input type="checkbox"/>	<input type="checkbox"/>
Domain Controller	<input type="checkbox"/>	<input type="checkbox"/>
Dynamic DNS	<input type="checkbox"/>	<input type="checkbox"/>
FTP	<input type="checkbox"/>	<input type="checkbox"/>
iSCSI	<input type="checkbox"/>	<input type="checkbox"/>
LLDP	<input type="checkbox"/>	<input type="checkbox"/>
netdata	<input checked="" type="checkbox"/>	<input type="checkbox"/>
NFS	<input type="checkbox"/>	<input type="checkbox"/>
Rsync	<input type="checkbox"/>	<input type="checkbox"/>
S.M.A.R.T	<input type="checkbox"/>	<input checked="" type="checkbox"/>

3. Nyalakan launch

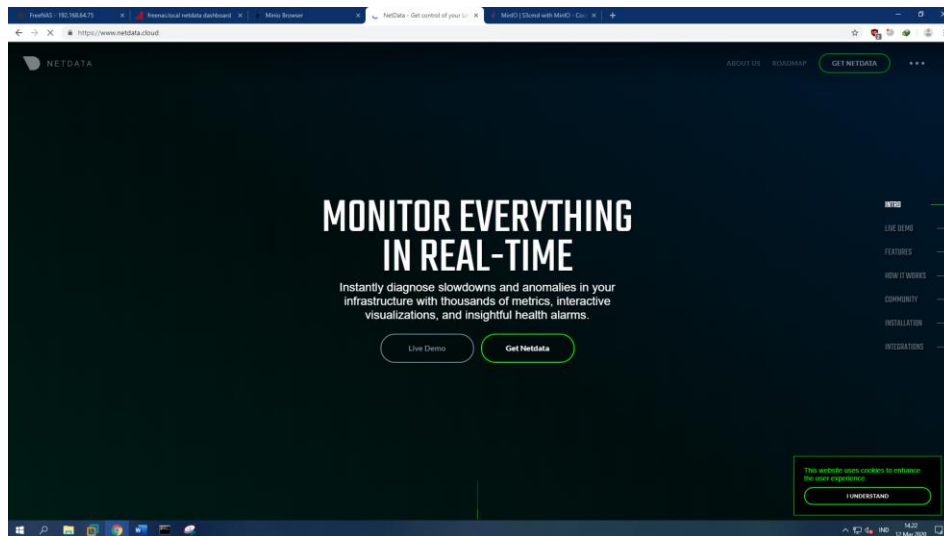


4. Langsung masuk ke halaman net data



5. Dokumentasi net data





## Mencoba Jails dengan Transmision

1. Login freenas
2. Buat dataset baru
3. Liat yutup

## Project Akhir

1. Membuat Lampp  
Berisi project KP / tugas kuliah lainnya
2. Membuat Layanan Docket
3. Kombinasi layanan freenas  
Harus bisa membuat layanan cloud untuk kombinasi service dan jails