

brage.it.ntnu.no
(129.241.241.254)





Brage

- 3PB of accessible storage
 - Consist of 16 x Dell ECS EX5000 building blocks in one single rack
 - Not using traditional raid setup
 - Declustered raid gives lower overhead (but gets better with size)
- Connected to 25gbit network
- Backbone is 16x2x25Gbit network
- Frontend is 1 x 25Gbit HA-proxy (but is expandable)

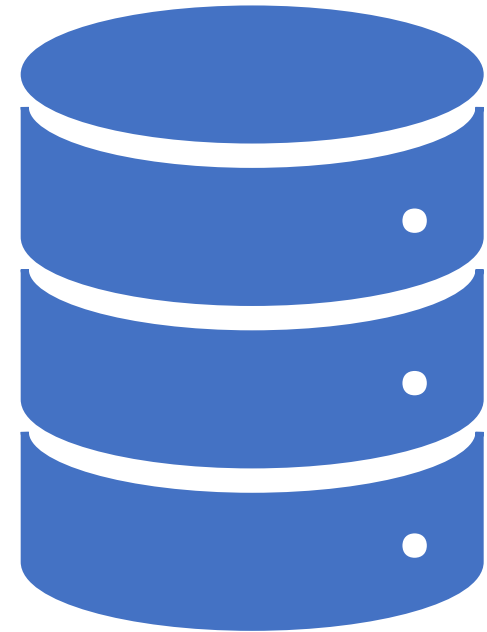
Test mode

- A few missing things
- Missing certificate for 129.241.241.254/brage.it.ntnu.no
- Some of the tools does not support naming convention
https://ENDPOINT/bucketnavn/filnavn.p
df but only convention
[https://bucketnavn.ENDPOINT/filnavn.p
df](https://bucketnavn.ENDPOINT/filnavn.pdf),
- Admin api does not work (at least not with aws api)



S3 = "cloud native" storage

- Not file storage
- Objects
 - Accessible via APIs (aws cli)



- `$python -m venv aws`
- `$cd aws`
- `$source bin/activate`
- `$pip install awscli awscli-plugin-endpoint`
- `$aws s3 --profile brage --endpoint-url http://129.241.241.254 ls`
 - 2023-07-24 11:37:09 gulli
 - 2023-07-24 10:01:59 testbucket

Config files (.aws)

```
(aws) [einjen@idun-login1 s3]$ cat awsconfig |head -n 10
```

```
[default]
```

```
output=json
```

```
[plugins]
```

```
endpoint = awscli_plugin_endpoint
```

```
[profile brage2]
```

```
s3 =
```

```
    endpoint_url = http://129.241.241.254
```

```
[profile brage]
```

```
s3 =
```

```
    endpoint_url = http://129.241.241.254
```

```
(aws) [einjen@idun-login1 s3]$ cat awscredentials |head -n 12
```

```
[default]
```

```
aws_access_key_id=ASIA2AUD6MZFMM
```

```
aws_secret_access_key=6AiiLZ1J+zTY4E8W8UIdu1Nj8
```

```
aws_session_token=IQoJb3JpZ2luX2VjECUaCWV1LXdl
```

```
[brage2]
```

```
aws_access_key_id=AKIA01AAE164
```

```
aws_secret_access_key=iAvDujTgxjYzuSrS2IEv
```

```
aws_session_token=
```

```
[brage]
```

```
aws_access_key_id=AKIA701D
```

```
aws_secret_access_key=/5su0tFi
```

```
aws_session_token=
```