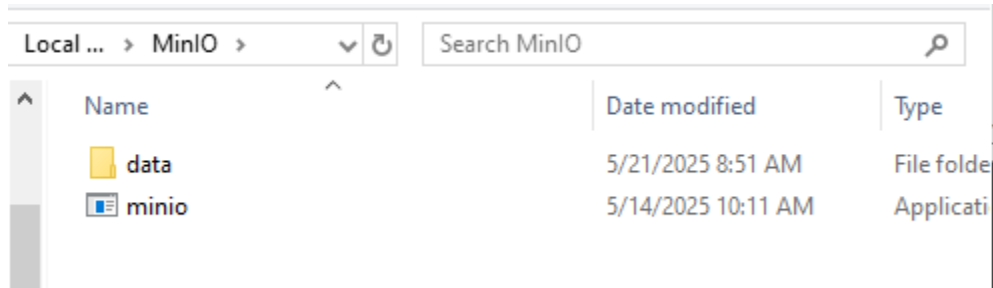


Nghiêm Anh Tuấn – 22174600076

DHKL16A1HN

1. Tải MinIO Server cho Windows



2. Khởi chạy MinIO

```
C:\Windows\System32\cmd.exe - minio.exe server C:\MinIO\data
Microsoft Windows [Version 10.0.19045.5854]
(c) Microsoft Corporation. All rights reserved.

C:\MinIO>set MINIO_ROOT_USER=admin
C:\MinIO>set MINIO_ROOT_PASSWORD=12345678

C:\MinIO>minio.exe server C:\MinIO\data
INFO: Formatting 1st pool, 1 set(s), 1 drives per set.
INFO: WARNING: Host local has more than 0 drives of set. A host failure will result in data becoming unavailable.
MinIO Object Storage Server
Copyright: 2015-2025 MinIO, Inc.
License: GNU AGPLv3 - https://www.gnu.org/licenses/agpl-3.0.html
Version: RELEASE.2025-04-22T22-12-26Z (go1.24.2 windows/amd64)

API: http://172.31.18.132:9000 http://127.0.0.1:9000
RootUser: admin
RootPass: 12345678

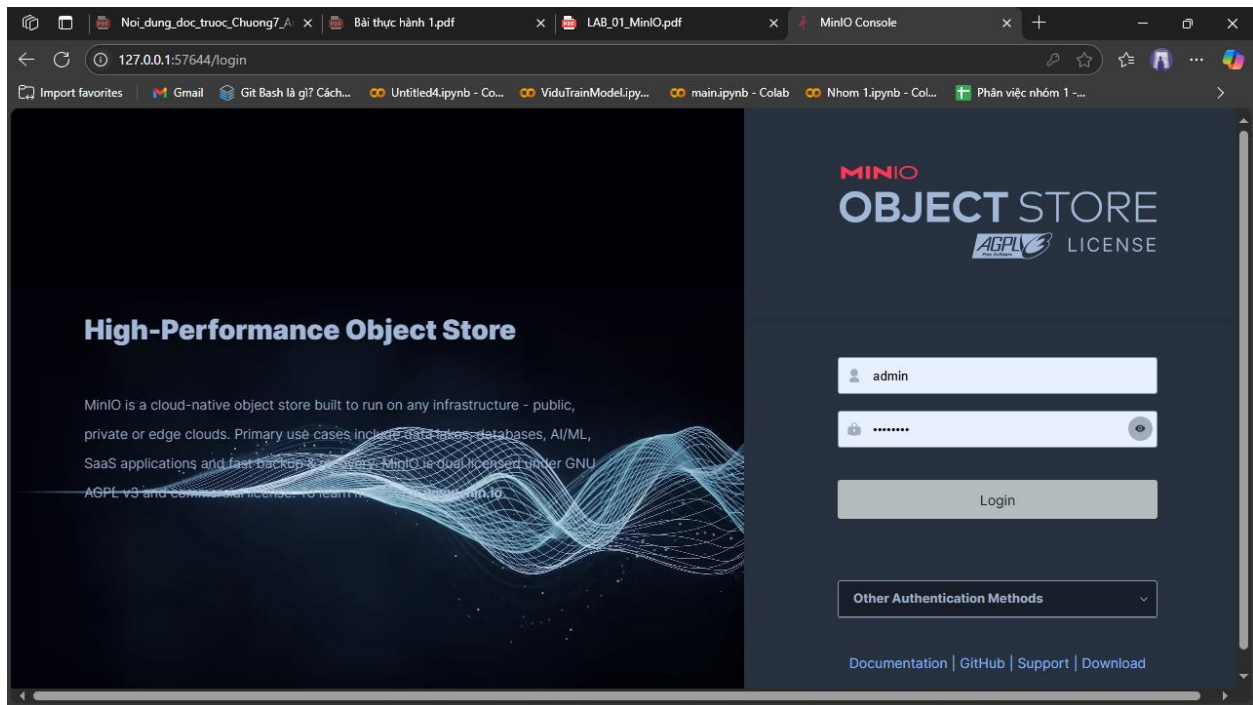
WebUI: http://172.31.18.132:57644 http://127.0.0.1:57644
RootUser: admin
RootPass: 12345678

CLI: https://min.io/docs/minio/linux/reference/minio-mc.html#quickstart
$ mc alias set 'myminio' 'http://172.31.18.132:9000' 'admin' '12345678'

Docs: https://docs.min.io
```

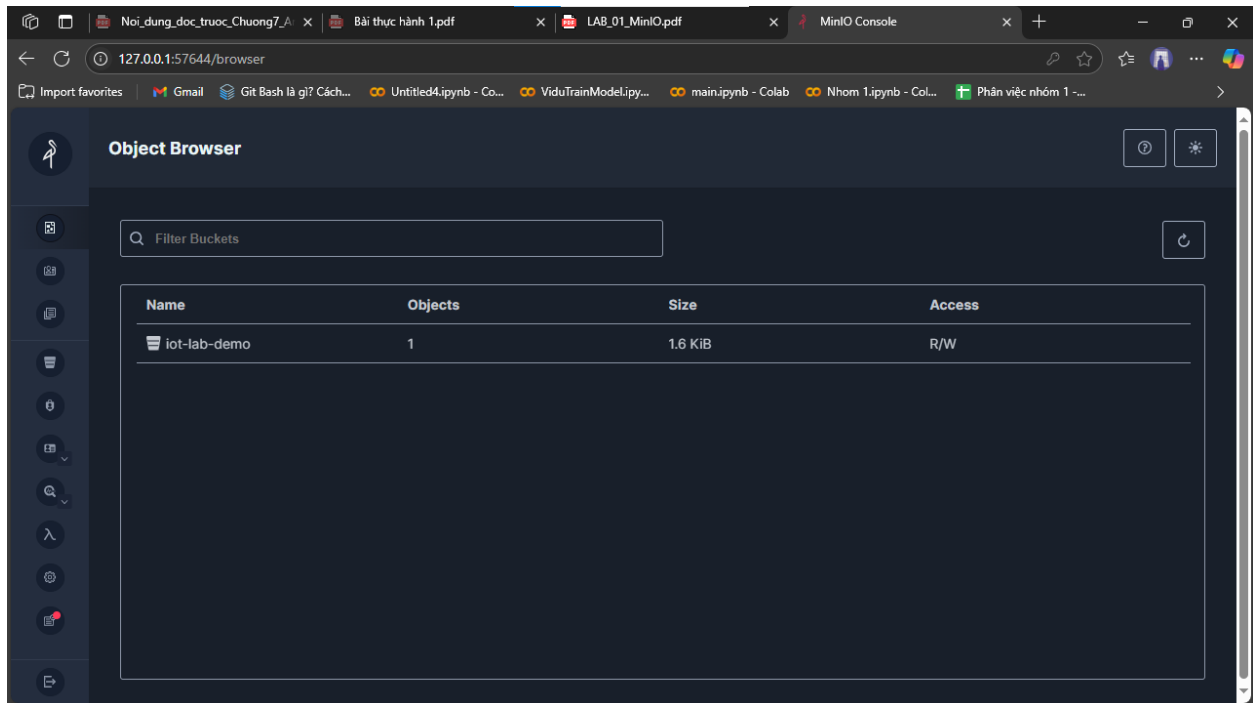
2. Tạo bucket và tải file lên

- Truy cập <http://127.0.0.1:9000>

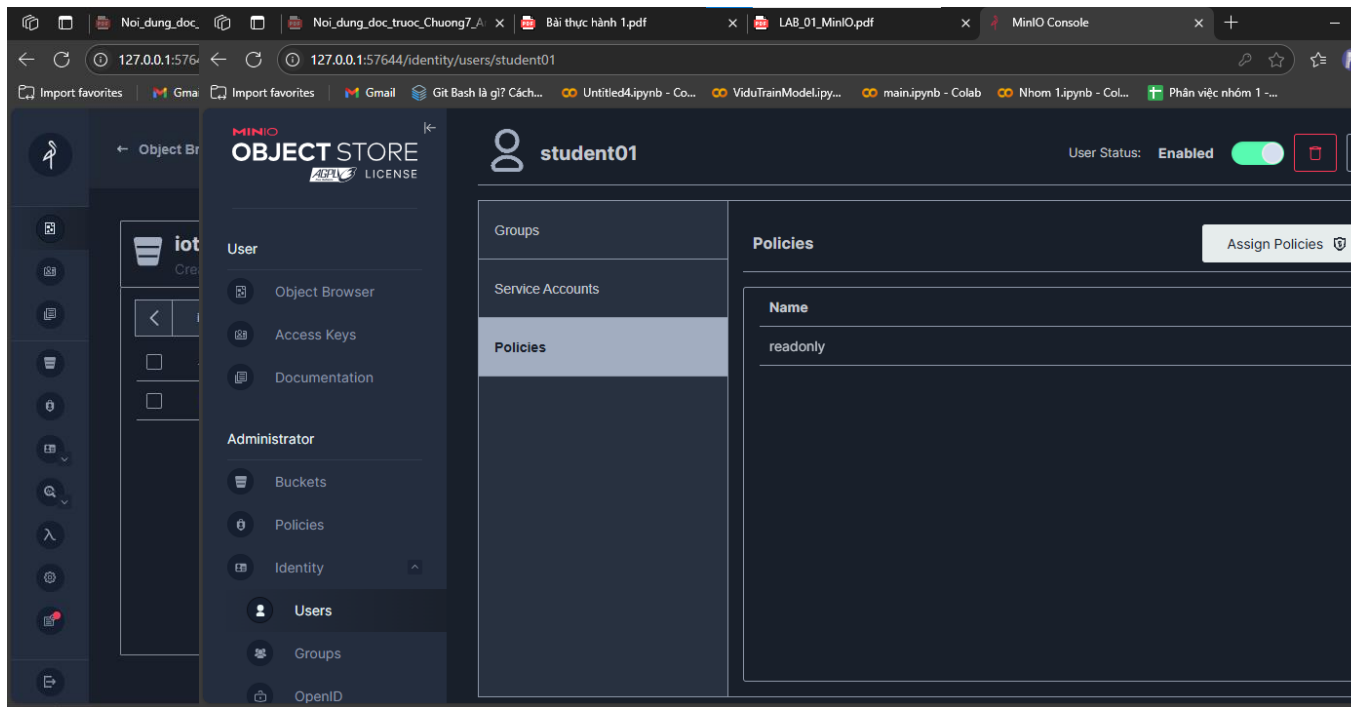


- Đăng nhập với tài khoản: admin, mật khẩu: 12345678.

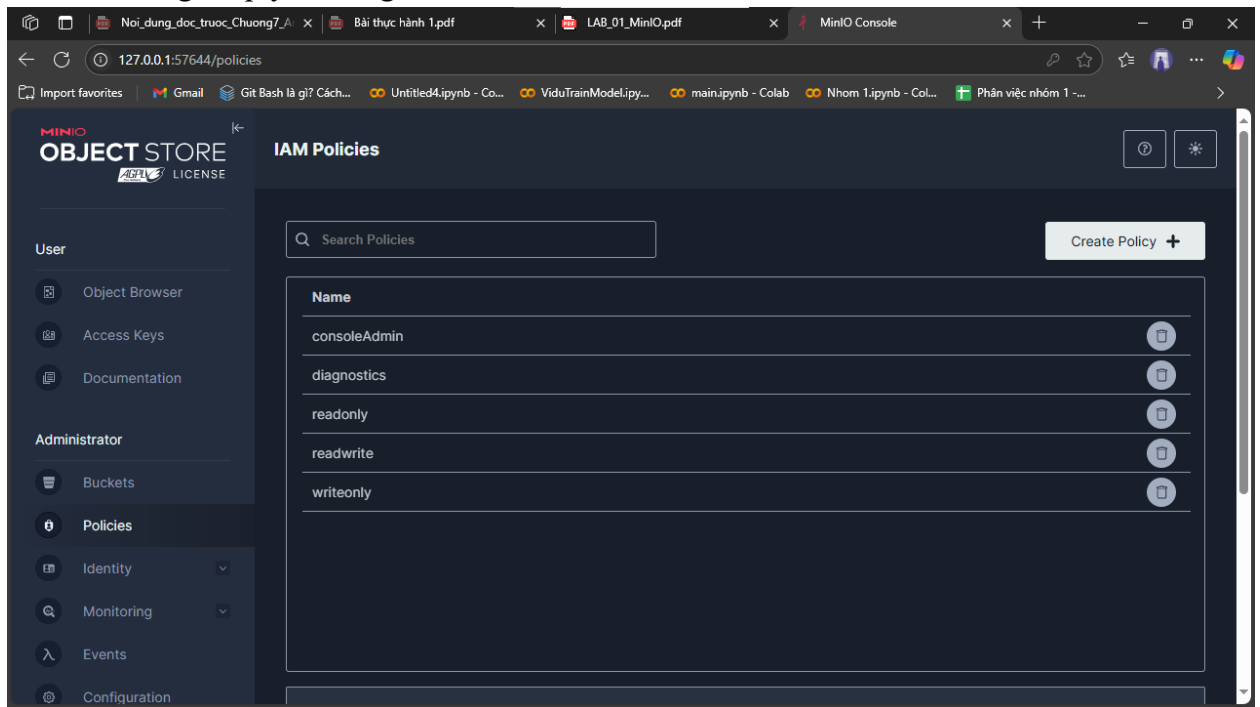
- Chọn Create Bucket → đặt tên (ví dụ: iot-lab-demo)



- Upload file sensor_data.csv



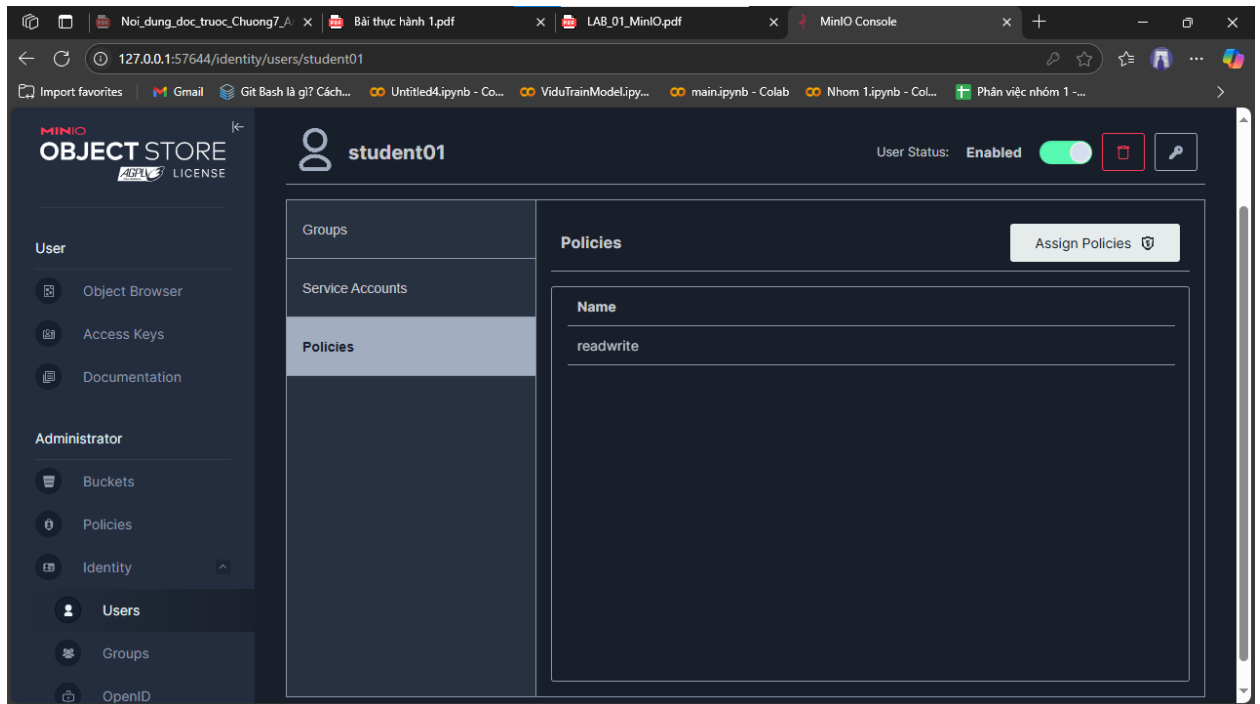
3. Tạo user và gán quyền bằng Policies



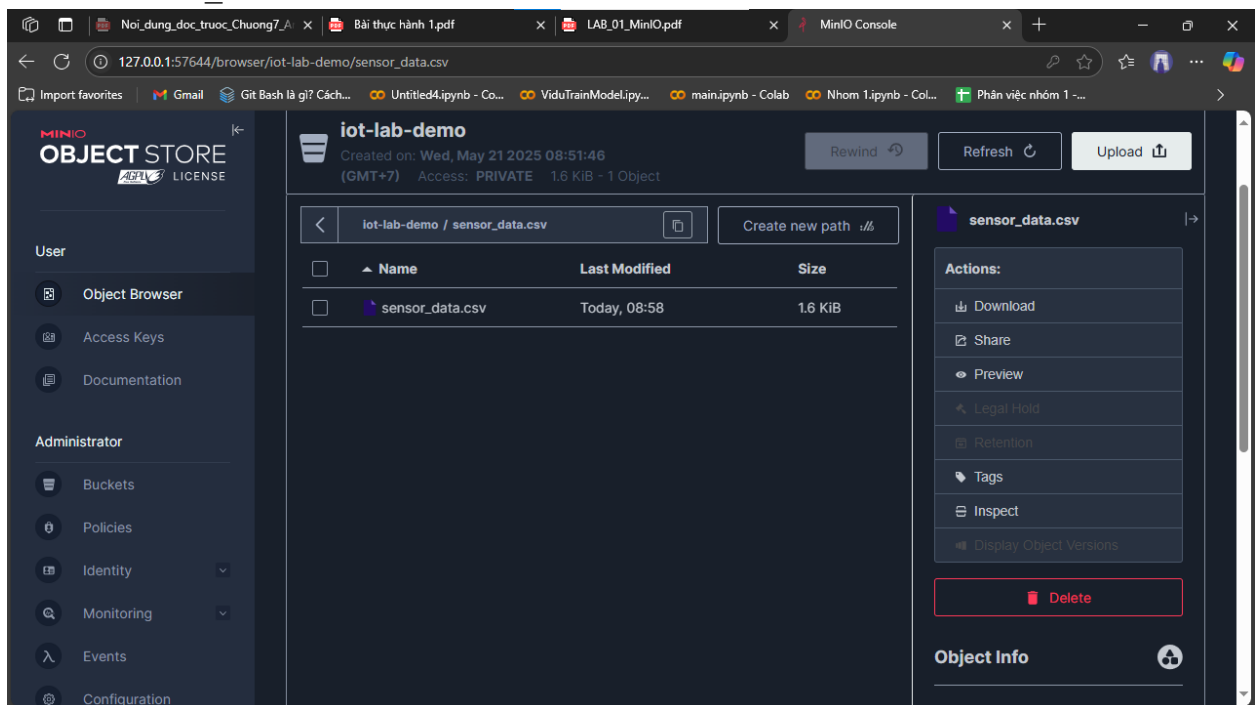
4. Tạo user mới:
 - Access Key: student01
 - password: abc12345
 - Policy: readonly

5. Download file qua GUI bằng tài khoản mới

- Gán quyền readwrite



- Tải file sensor_data.csv



6. Truy xuất file bằng Python (boto3)

