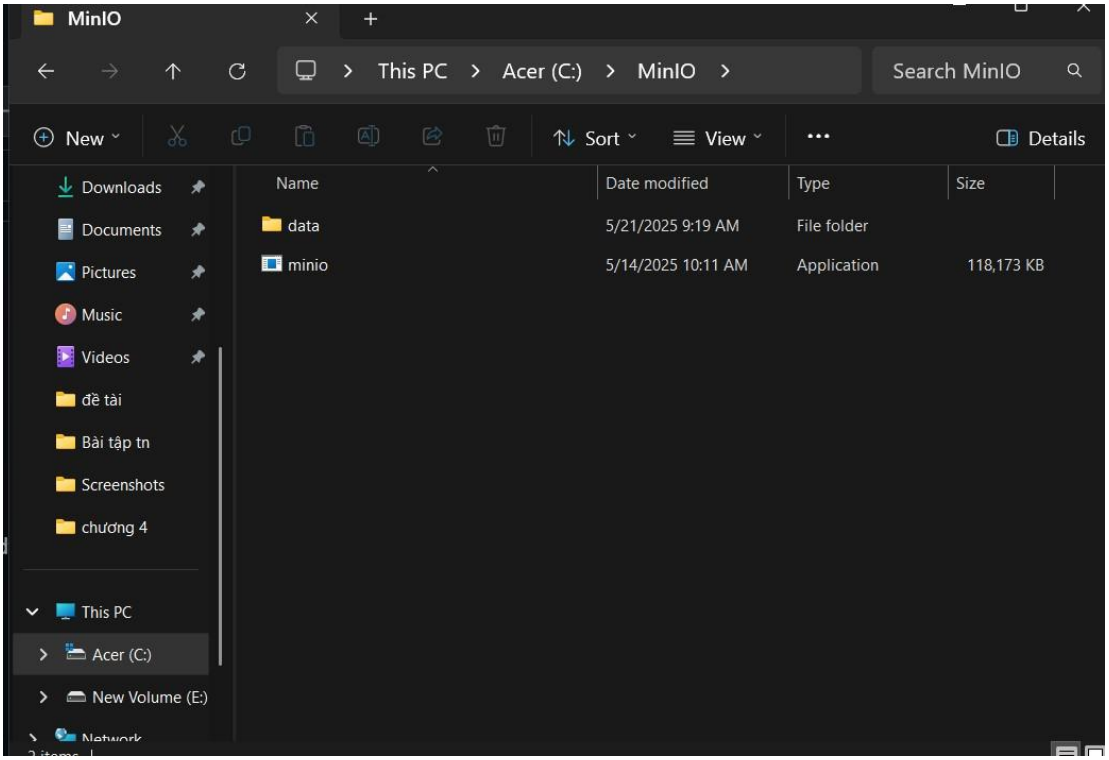
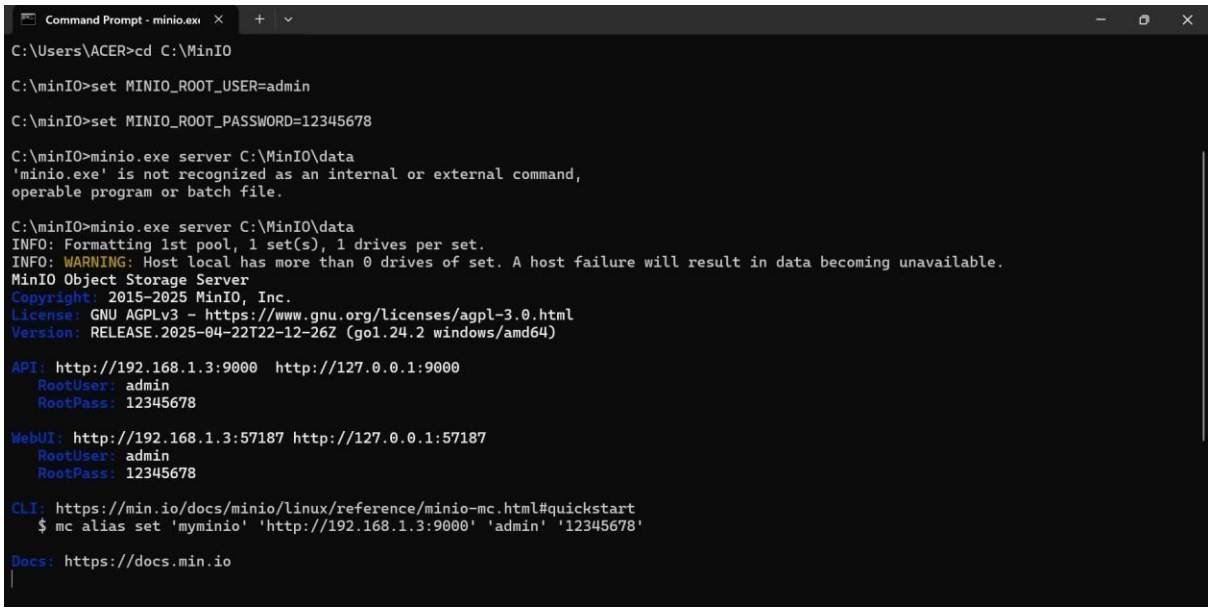
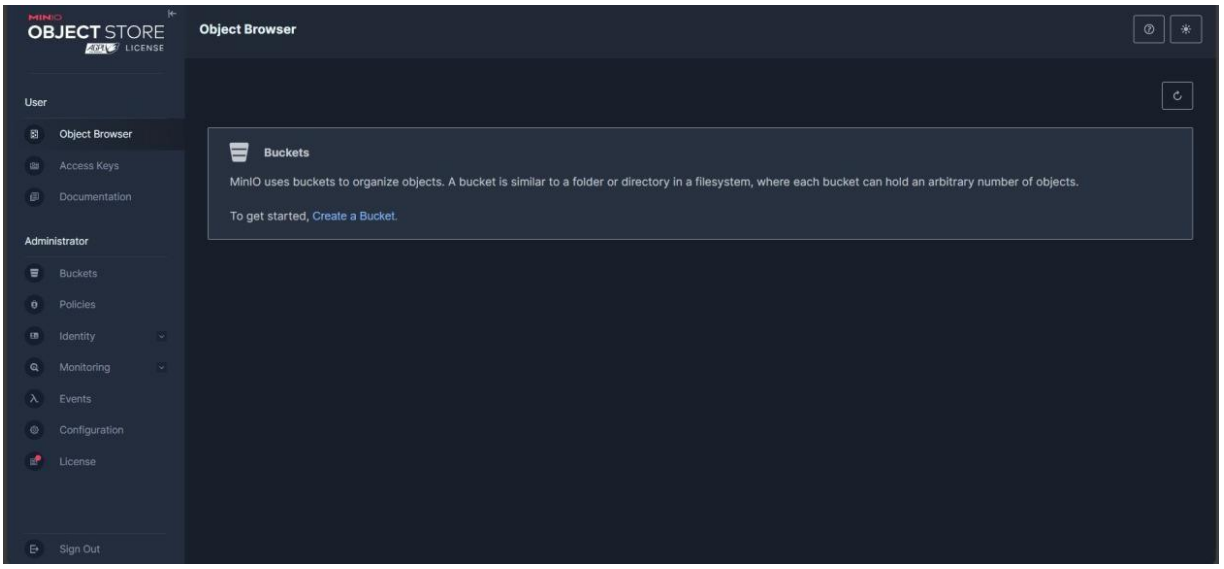
Nguyễn Thị Hà Mây –DHKL16A1HN-MSV:22174600031

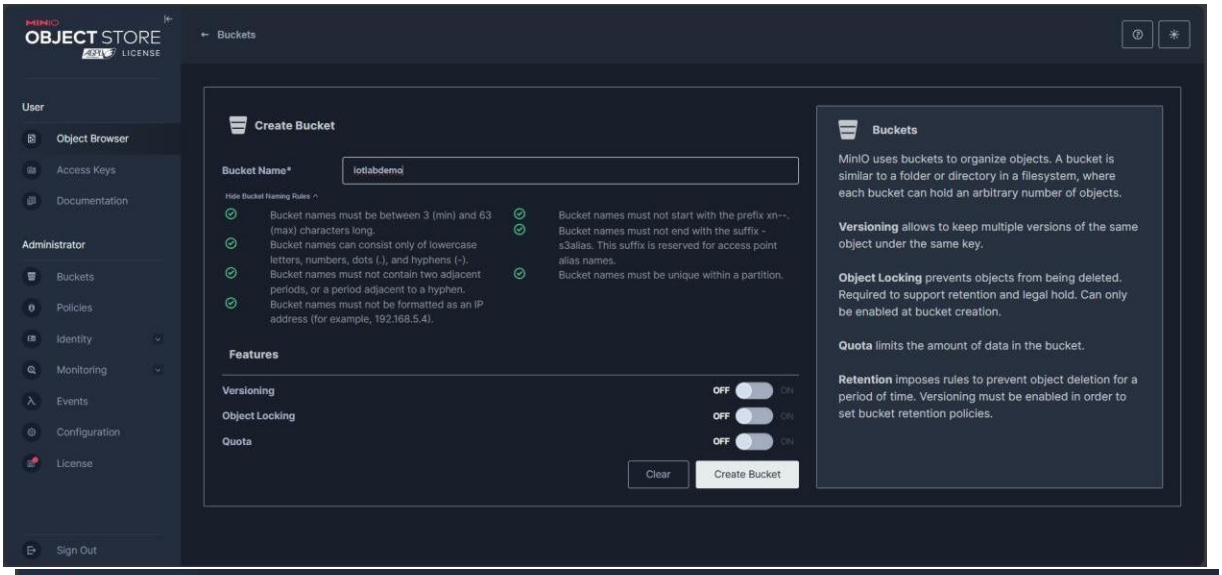
1. CÀI ĐẶT MINIO





2. TẠO BUCKET VA TẢI FILE LÊN


MINIO
OBJECT STORE
AGPL LICENSE
Object Browser
User
Object Browser
Access Keys
Documentation
Administrator
Buckets
Policies
Identity
Monitoring
Events
Configuration
License
Sign Out
Buckets
MinIO uses buckets to organize objects. A bucket is similar to a folder or directory in a filesystem, where each bucket can hold an arbitrary number of objects.
To get started, Create a Bucket.


MINIO
OBJECT STORE
AGPL LICENSE
← Buckets
User
Object Browser
Access Keys
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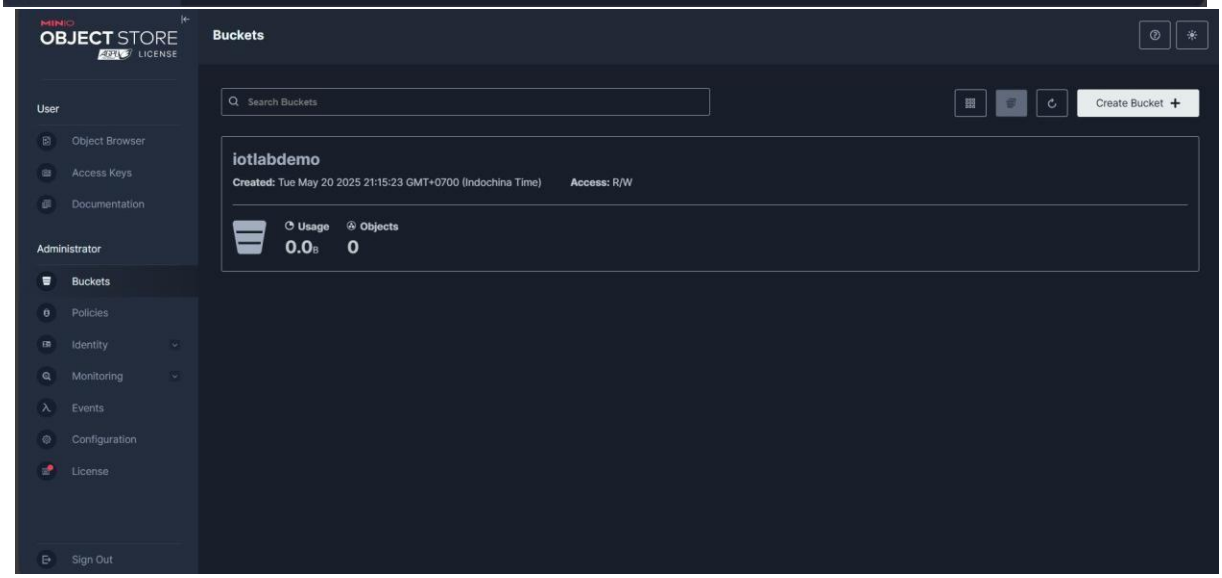
Administrator
Buckets
Policies
Identity
Monitoring
Events
Configuration
License
Sign Out
Create Bucket
Bucket Name*
iotlabdemo
Hide Bucket Naming Rules ^
Bucket names must be between 3 (min) and 63 (max) characters long.
Bucket names can consist only of lowercase letters, numbers, dots (.), and hyphens (-).
Bucket names must not contain two adjacent periods, or a period adjacent to a hyphen.
Bucket names must not be formatted as an IP address (for example, 192.168.5.4).
Bucket names must not start with the prefix xn--.
Bucket names must not end with the suffix -s3alias. This suffix is reserved for access point alias names.
Bucket names must be unique within a partition.
Features
Versioning
OFF ON
Object Locking
OFF ON
Quota
OFF ON
Clear
Create Bucket
Buckets
MinIO uses buckets to organize objects. A bucket is similar to a folder or directory in a filesystem, where each bucket can hold an arbitrary number of objects.
Versioning allows to keep multiple versions of the same object under the same key.
Object Locking prevents objects from being deleted. Required to support retention and legal hold. Can only be enabled at bucket creation.
Quota limits the amount of data in the bucket.
Retention imposes rules to prevent object deletion for a period of time. Versioning must be enabled in order to set bucket retention policies.


MINIO
OBJECT STORE
AGPL LICENSE
Buckets
User
Object Browser
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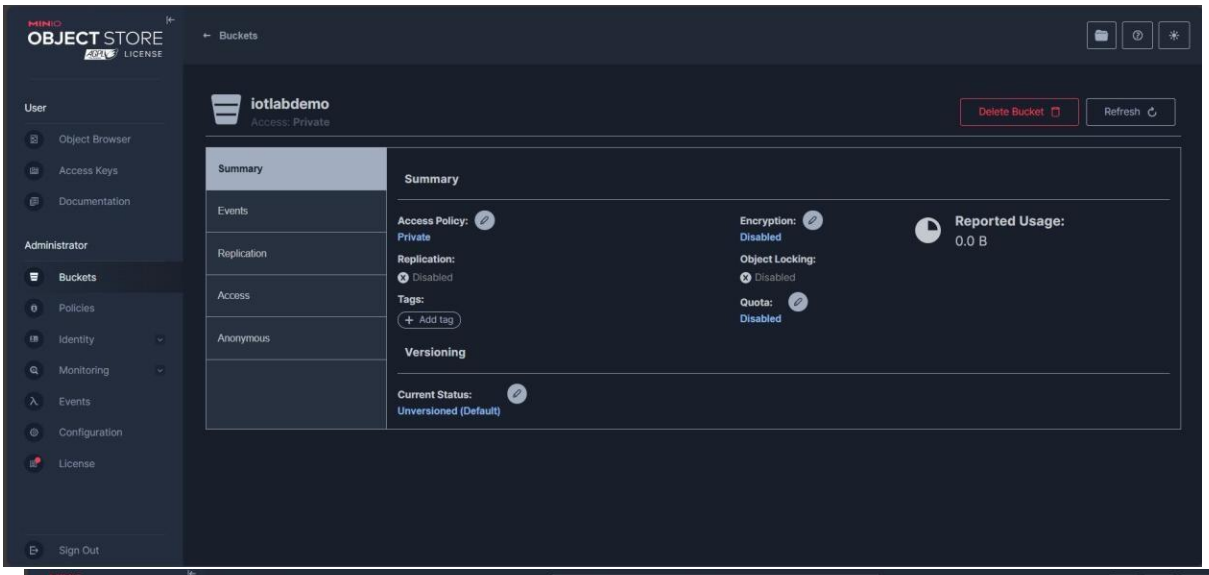
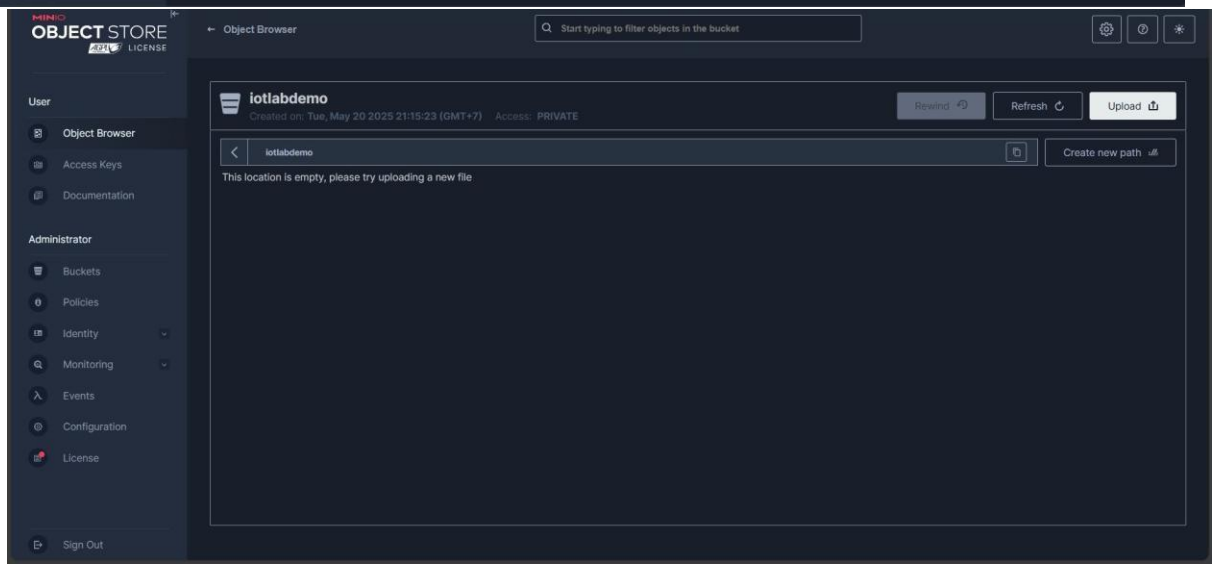
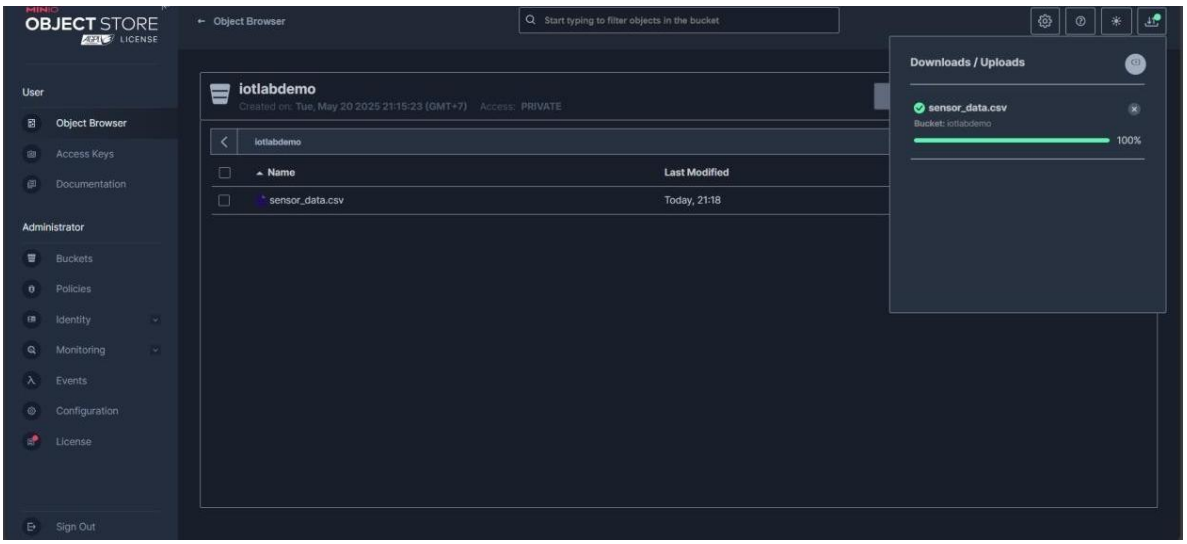
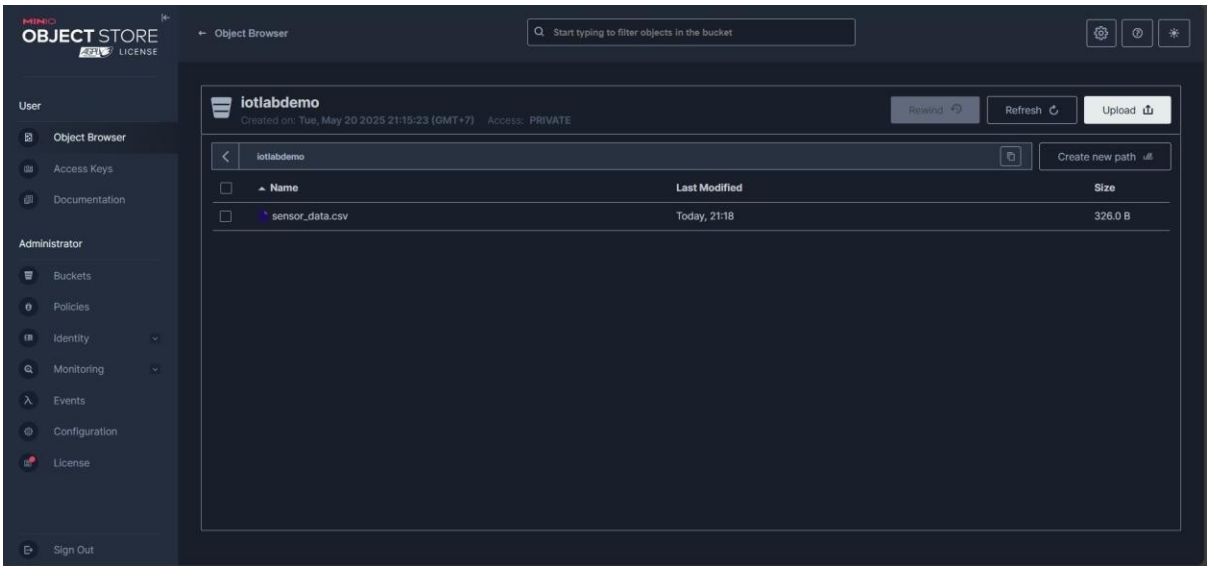
Administrator
Buckets
Policies
Identity
Monitoring
Events
Configuration
License
Sign Out
Search Buckets
Create Bucket +
iotlabdemo
Created: Tue May 20 2025 21:15:23 GMT+0700 (Indochina Time)
Access: R/W
Usage
0.0B
Objects
0

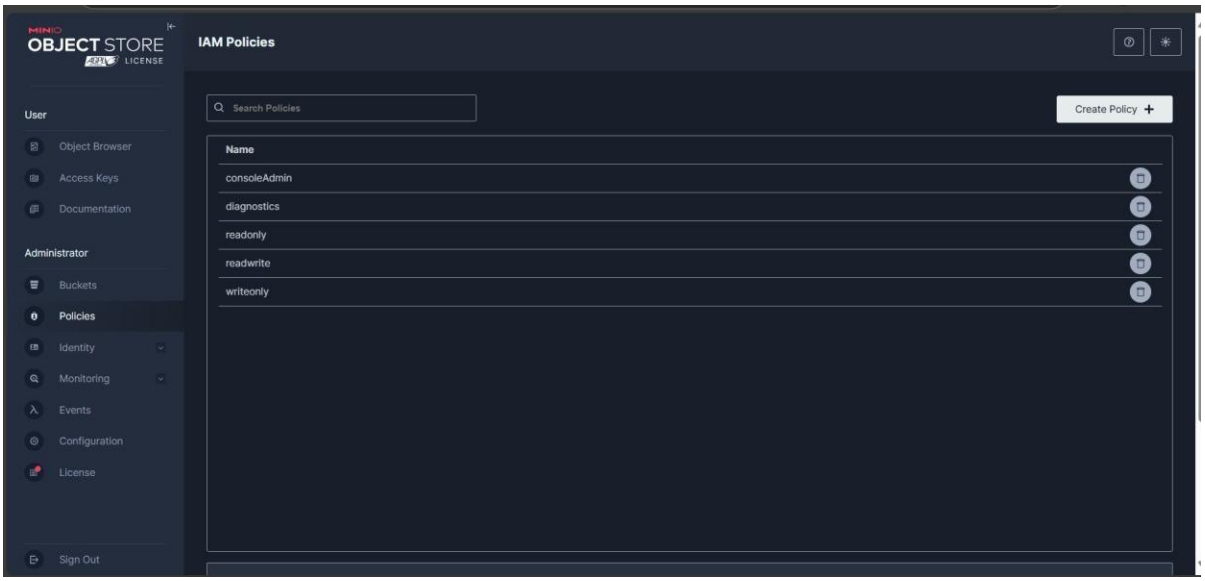

OBJECT STORE
LICENSE
Buckets
User
Object Browser
Access Keys
Documentation
Administrator
Buckets
Policies
Identity
Monitoring
Events
Configuration
License
Sign Out
iotlabdemo
Access: Private
Delete Bucket
Refresh
Summary
Events
Replication
Access
Anonymous
Summary
Access Policy:
Private
Encryption:
Disabled
Reported Usage:
0.0 B
Replication:
Disabled
Object Locking:
Disabled
Tags:
Add tag
Quota:
Disabled
Versioning
Current Status:
Unversioned (Default)

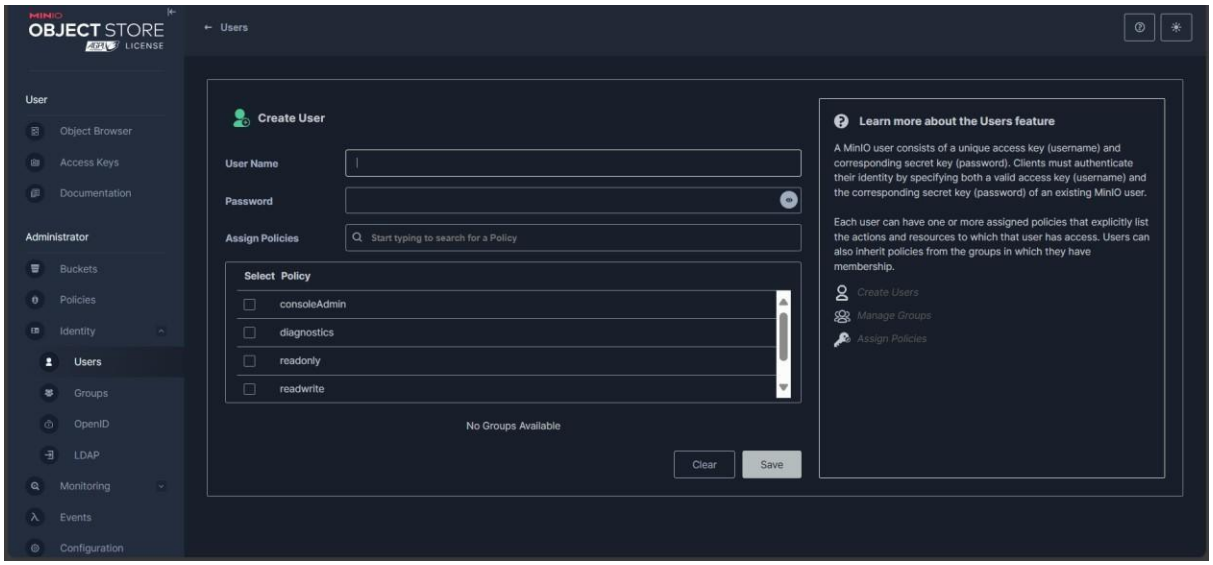

OBJECT STORE
LICENSE
Object Browser
Start typing to filter objects in the bucket
User
Object Browser
Access Keys
Documentation
Administrator
Buckets
Policies
Identity
Monitoring
Events
Configuration
License
Sign Out
iotlabdemo
Created on: Tue, May 20 2025 21:15:23 (GMT+7)
Access: PRIVATE
Rewind
Refresh
Upload
iotlabdemo
Create new path
This location is empty, please try uploading a new file

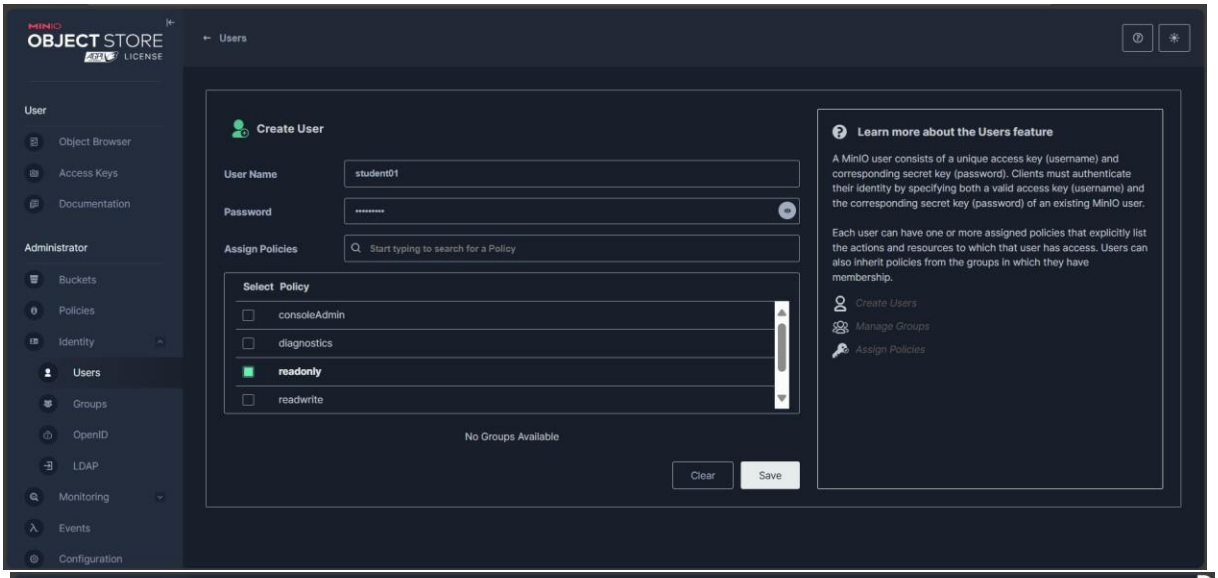

OBJECT STORE
LICENSE
Object Browser
Start typing to filter objects in the bucket
User
Object Browser
Access Keys
Documentation
Administrator
Buckets
Policies
Identity
Monitoring
Events
Configuration
License
Sign Out
iotlabdemo
Created on: Tue, May 20 2025 21:15:23 (GMT+7)
Access: PRIVATE
iotlabdemo
Name
Last Modified
sensor_data.csv
Today, 21:18
Downloads / Uploads
sensor_data.csv
Bucket: iotlabdemo
100%

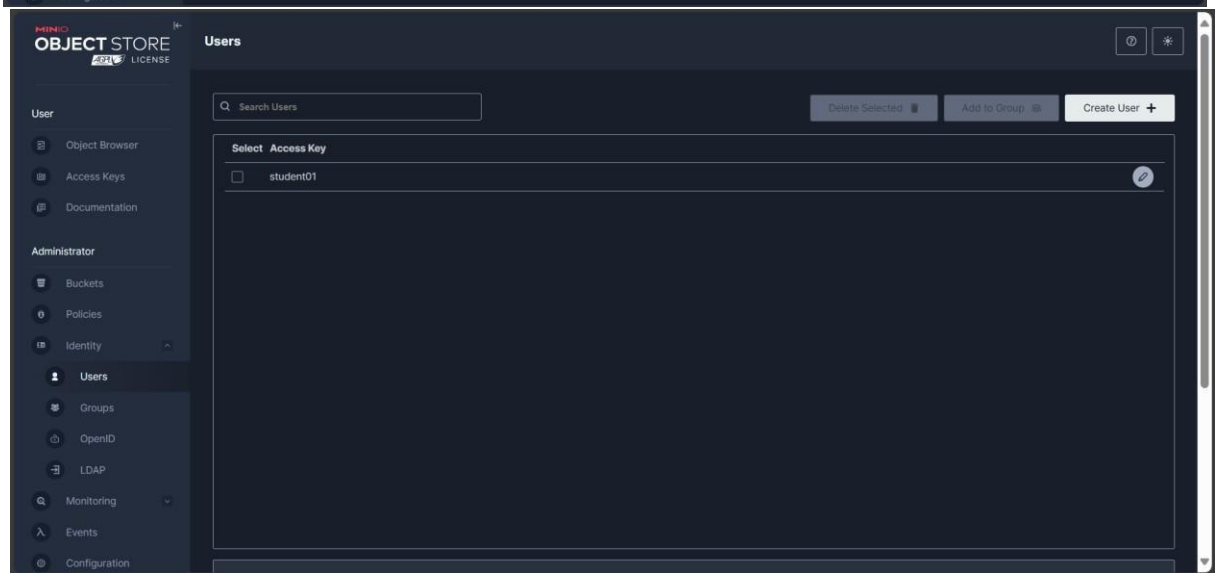


3. TẠO USER VÀ GÁN QUYỀN BẰNG POLICIES

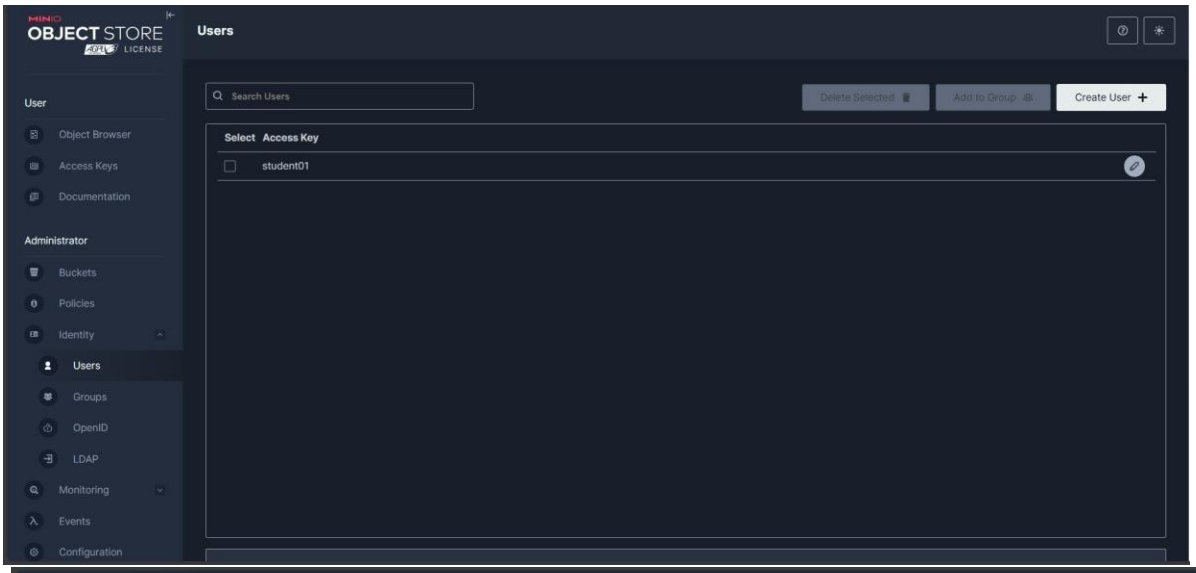


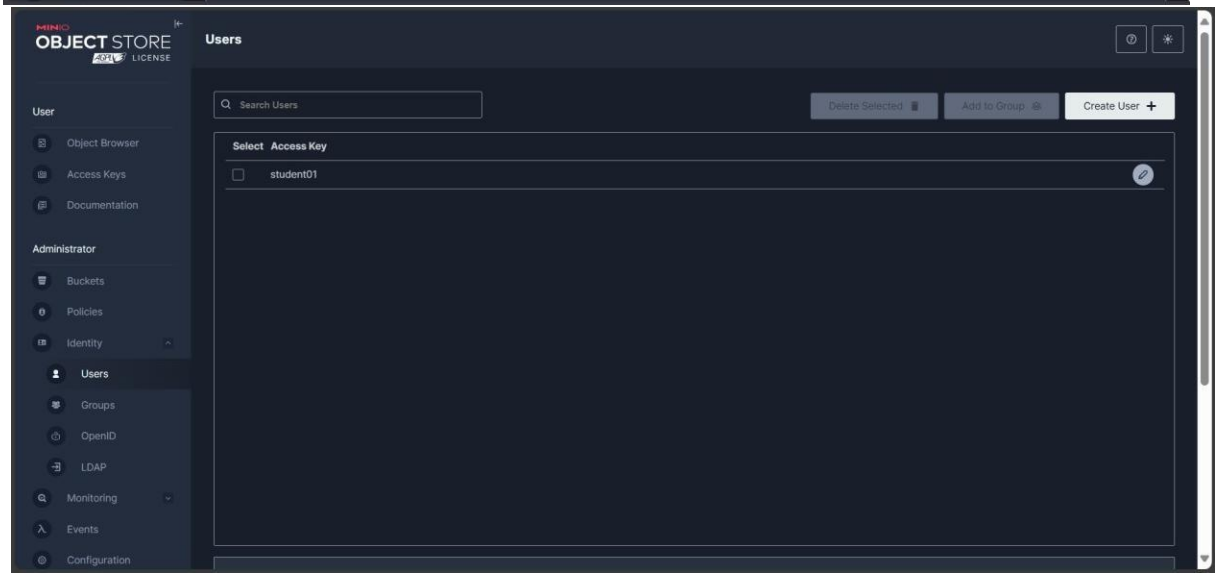


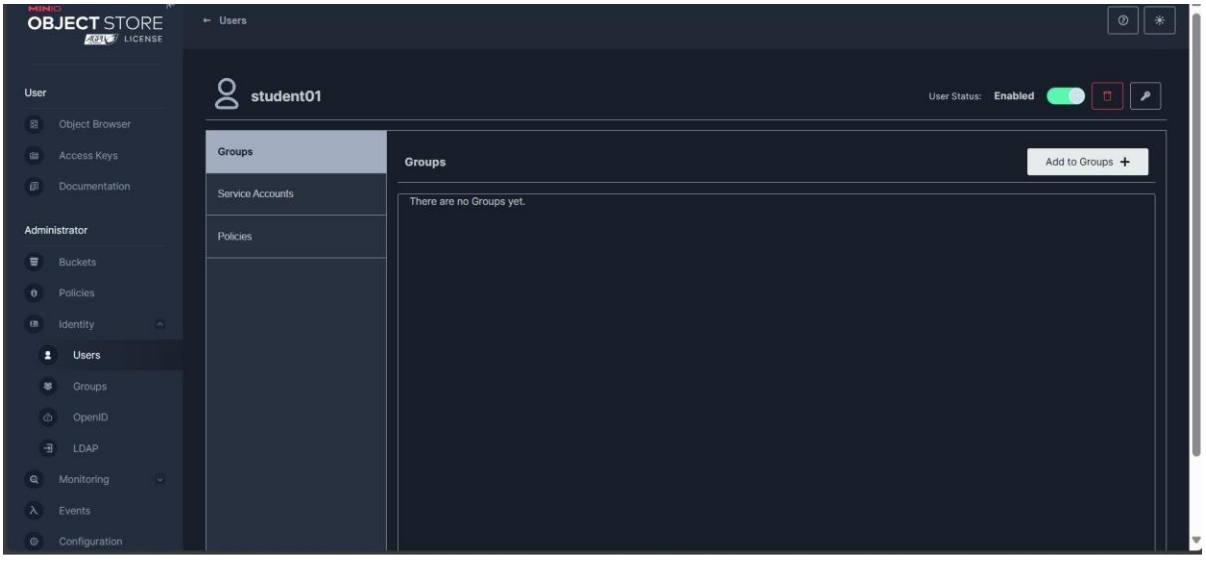


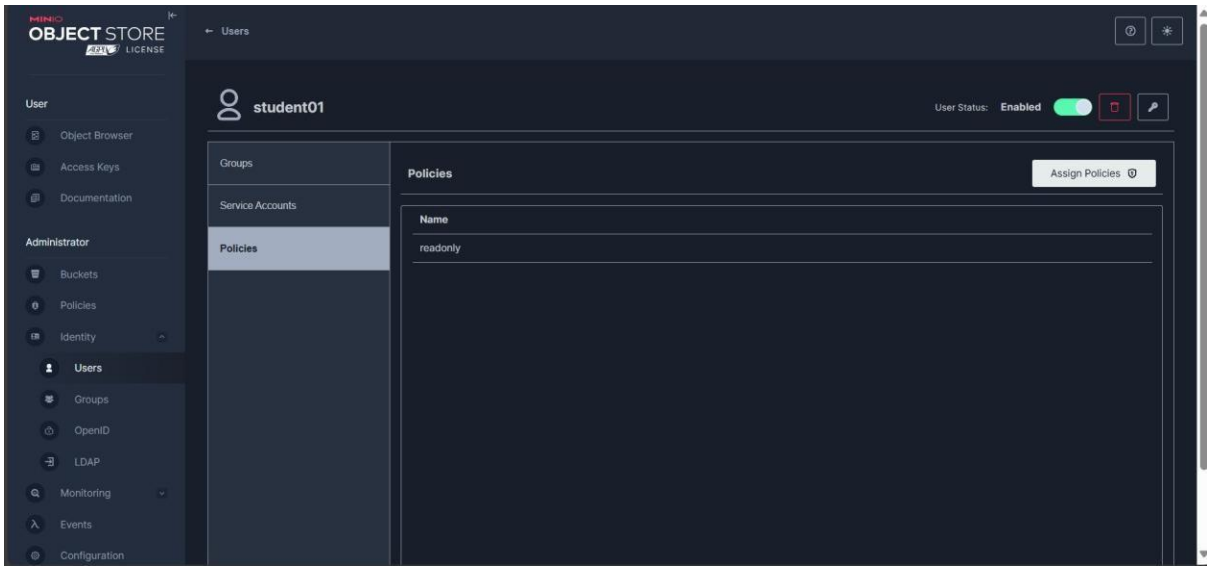


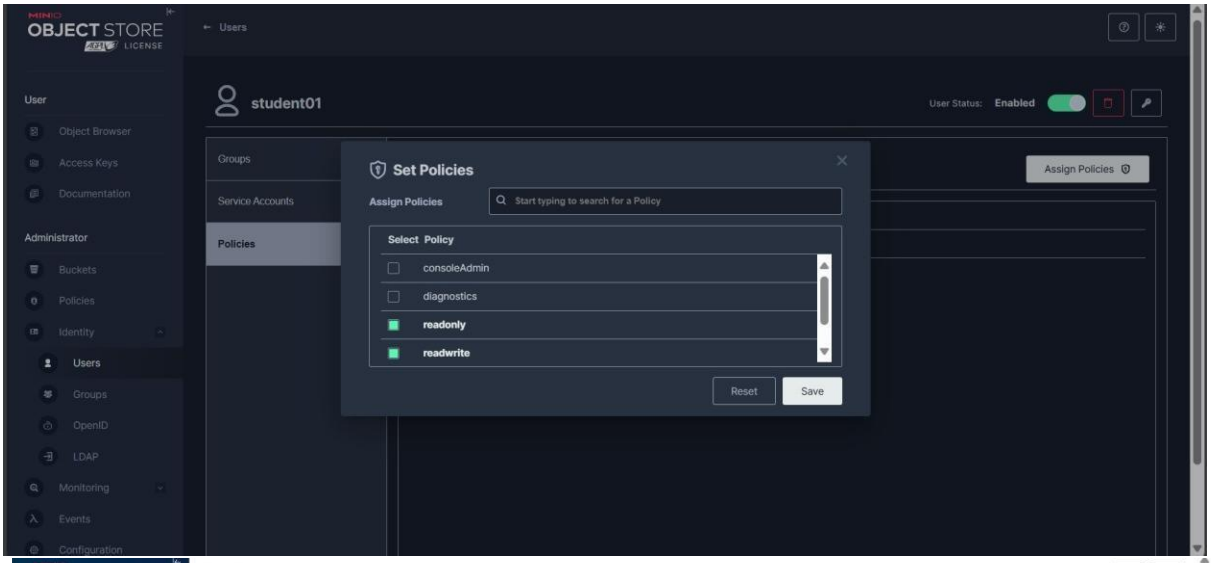
4. DOWNLOAD FILE QUA GUI BẰNG TÀI KHOẢN MỚI

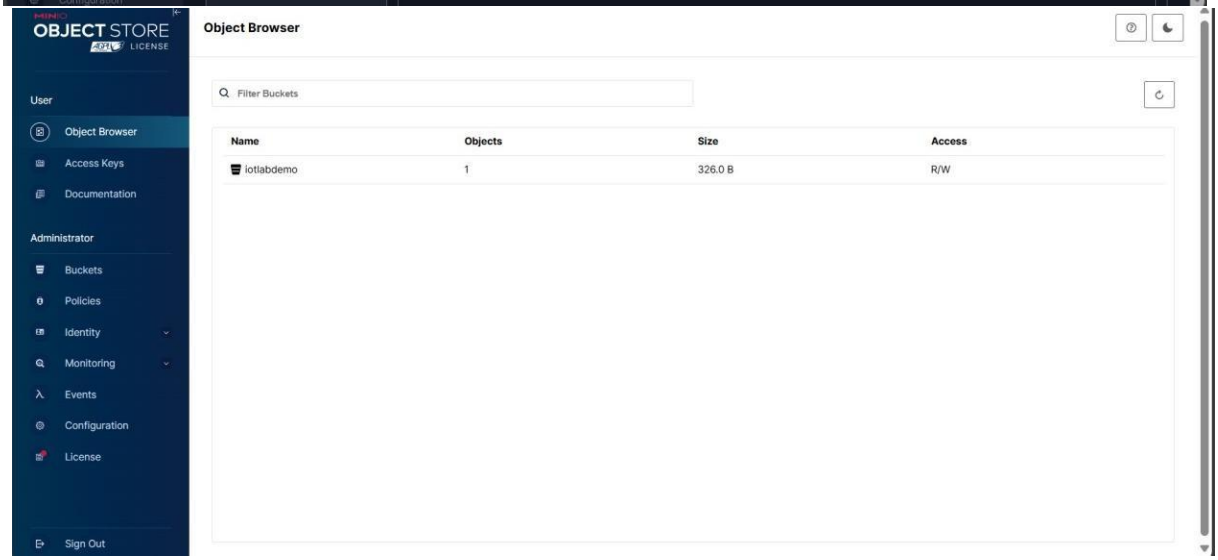

MINIO
OBJECT STORE
AGPL LICENSE
Users
User
Object Browser
Access Keys
Documentation
Administrator
Buckets
Policies
Identity
Users
Groups
OpenID
LDAP
Monitoring
Events
Configuration
Search Users
Delete Selected
Add to Group
Create User +
Select Access Key
student01

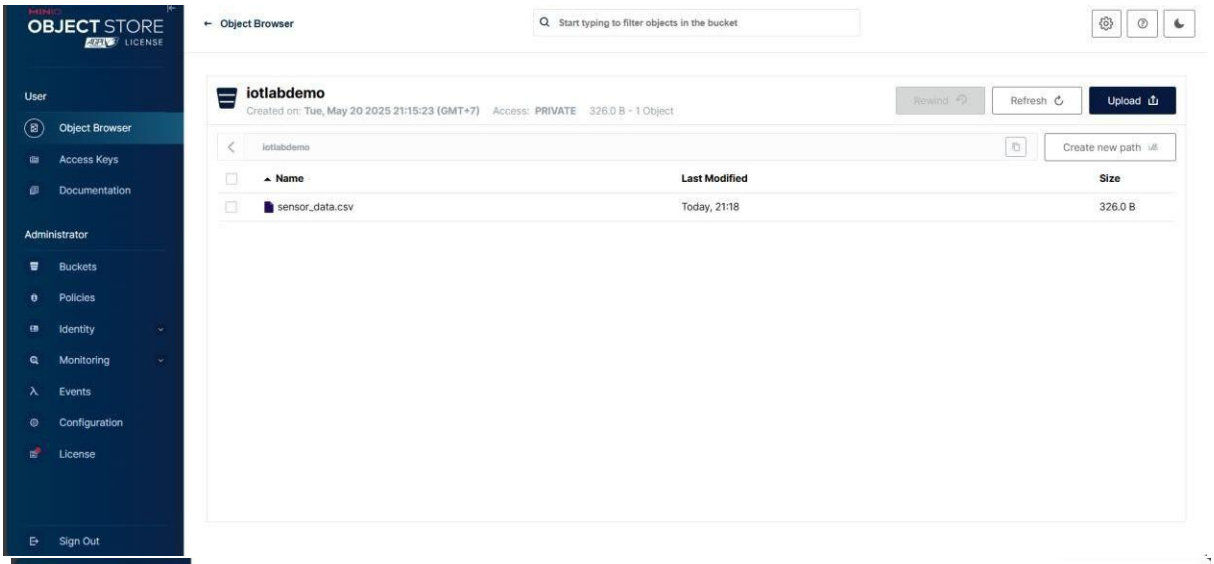

MINIO
OBJECT STORE
AGPL LICENSE
Users
User
Object Browser
Access Keys
Documentation
Administrator
Buckets
Policies
Identity
Users
Groups
OpenID
LDAP
Monitoring
Events
Configuration
Search Users
Delete Selected
Add to Group
Create User +
Select Access Key
student01

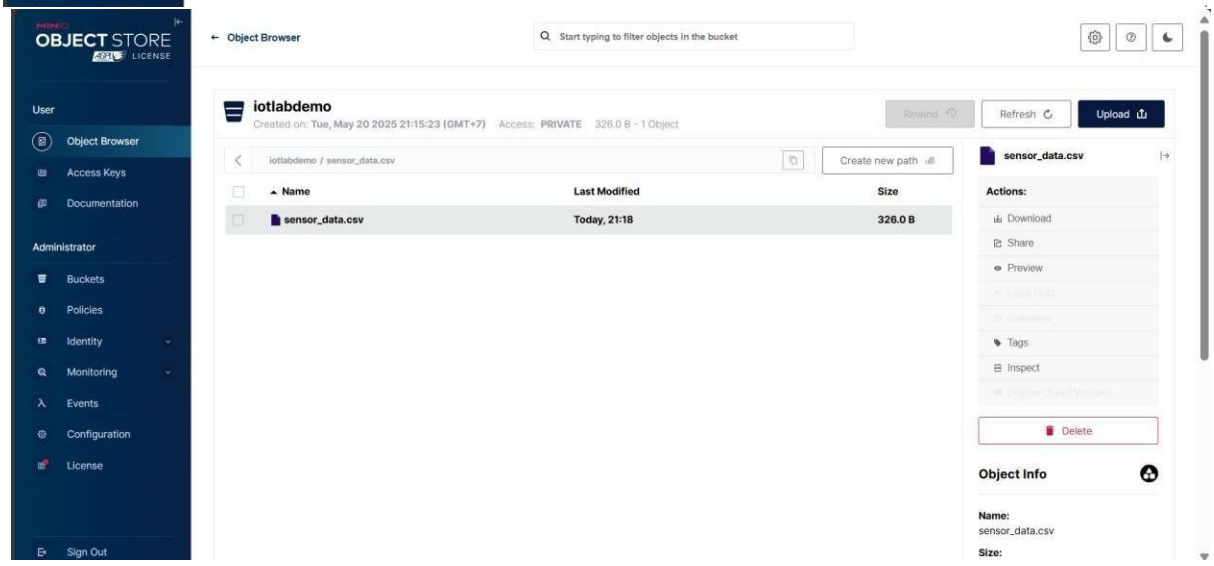

MINIO
OBJECT STORE
AGPL LICENSE
← Users
User
Object Browser
Access Keys
Documentation
Administrator
Buckets
Policies
Identity
Users
Groups
OpenID
LDAP
Monitoring
Events
Configuration
student01
User Status: Enabled
Groups
Service Accounts
Policies
Groups
Add to Groups +
There are no Groups yet.


OBJECT STORE
Users
User
Object Browser
Access Keys
Documentation
Administrator
Buckets
Policies
Identity
Users
Groups
OpenID
LDAP
Monitoring
Events
Configuration
student01
User Status: Enabled
Groups
Service Accounts
Policies
Policies
Assign Policies
Name
readonly

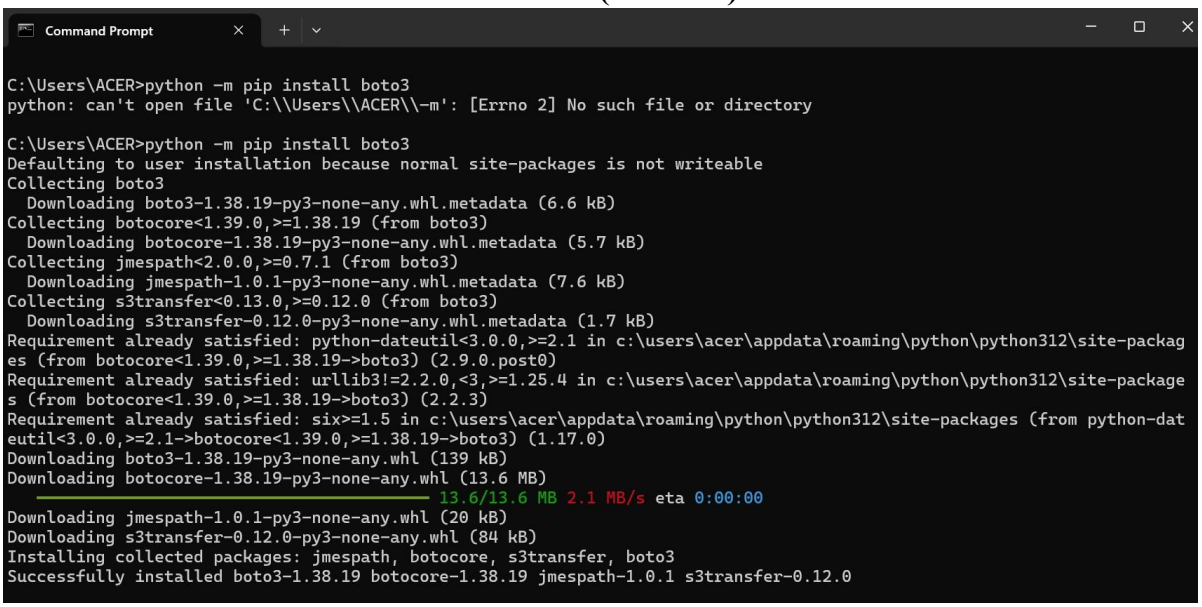

OBJECT STORE
Users
User
Object Browser
Access Keys
Documentation
Administrator
Buckets
Policies
Identity
Users
Groups
OpenID
LDAP
Monitoring
Events
Configuration
student01
User Status: Enabled
Groups
Service Accounts
Policies
Assign Policies
Set Policies
Assign Policies
Start typing to search for a Policy
Select Policy
consoleAdmin
diagnostics
readonly
readwrite
Reset
Save


OBJECT STORE
Object Browser
User
Object Browser
Access Keys
Documentation
Administrator
Buckets
Policies
Identity
Monitoring
Events
Configuration
License
Sign Out
Filter Buckets
Name
Objects
Size
Access
iotlabdemo
1
326.0 B
R/W

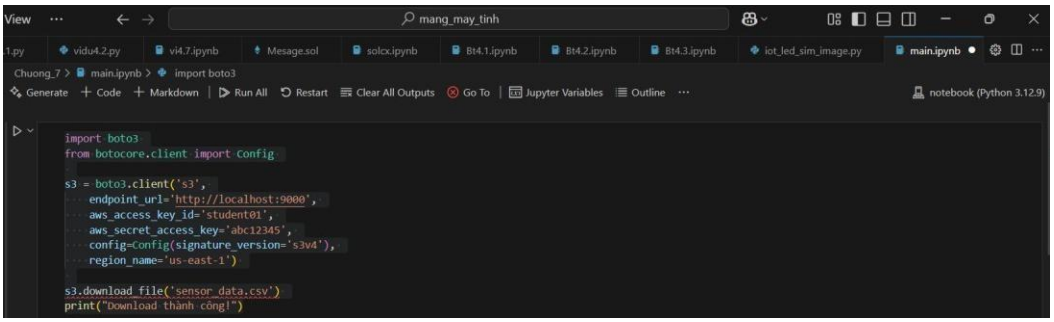




5. TRUY XUẤT FILE BẰNG PYTHON (BOTO3)



B2. GÕ ĐOẠN CODE CHẠY BẰNG PYTHON


View
mang_may_tinh
1.py
vidu4.2.py
vi4.7.ipynb
Mesage.sol
solcx.ipynb
Bt4.1.ipynb
Bt4.2.ipynb
Bt4.3.ipynb
iot_led_sim_image.py
main.ipynb
Chuong_7 > main.ipynb > import boto3
Generate
Code
Markdown
Run All
Restart
Clear All Outputs
Go To
Jupyter Variables
Outline
notebook (Python 3.12.9)
import boto3
from botocore.client import Config
s3 = boto3.client('s3',
endpoint_url='http://localhost:9000',
aws_access_key_id='student01',
aws_secret_access_key='abc12345',
config=Config(signature_version='s3v4'),
region_name='us-east-1')
s3.download_file('sensor_data.csv')
print("Download thành công!")