dataiku



Exploitation

Et mise en oeuvre

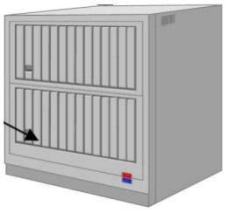


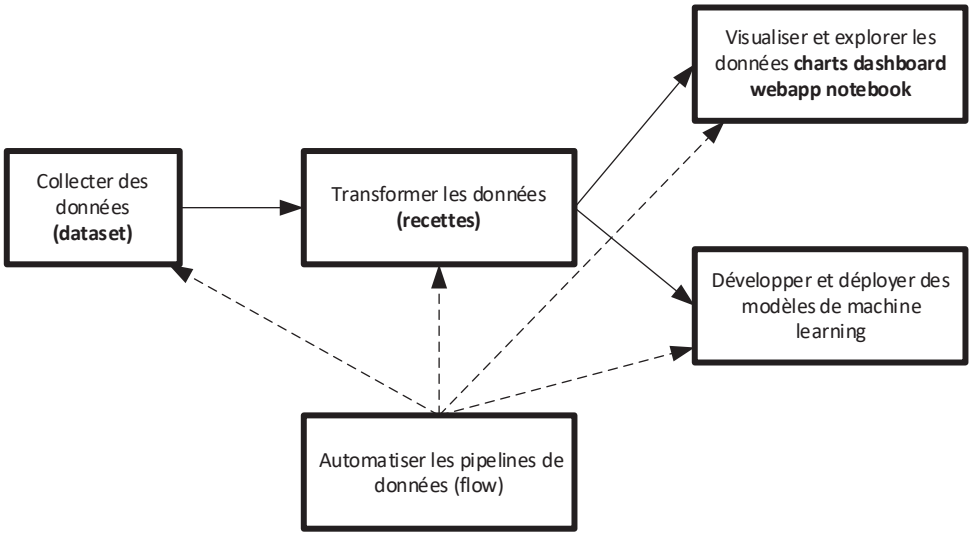
Table des matières

1 Présentation 4
2 Connexion a dataiku 4
3 connexion à minio et à un objet S3 6
3.1 Le connecteur 6
3.2 Mise en place d'un projet 8
4 Dataiq et minio sur le serveurNAS 10
4.1 Minio sur le NAS 10
4.2 Le connecteur 13
4.3 Le projet 14
5 Connexion vers Mysql 17
5.1 Le connecteur 17
5.2 Création d'un projet 18
6 Pour Mysql avec Xamp en local 23
6.1 Les flux et le dataset 25
6.2 Création d'une recette distinct 28
6.3 Création d'une recette prepare avec un geopoint 30
6.4 Exportation du dataset 32
6.5 Création d'un chart 33
6.6 Les scenarios 34
7 MLOPS 37
7.1 Le dataset :importation d'un fichier 37
7.2 Création d'un chart 39
7.3 Création d'un dashboard 40
7.4 Choix du modèle de machine learning et entrainement 42
7.5 Le deep learning 47
8 Mettre en place d'un notebook pour tileserver en mode offline 48
8.1 Mise en place du compilateur 48
8.2 Importation du code environnement dans dataiku 52
8.3 La configuration réseau sur dataiku 58
8.4 La création de la carte sqlite3 mbtile 58
8.5 Intégration de plusieurs cartes sur tileserver 66
8.6 Création du notebook 75
8.7 Le code python 77
8.8 Python pour le folium 80
8.9 Ajouter une image cliquable (via Popup) 84

8.10 ◆ 3. Ajouter une image incrustée directement sur la carte (Overlay) 85
8.11 ◆ 4. Ajouter une légende customisée (fixe en bas de la carte) 85
9 Création d'une cartographie à partir d'un geojson 86
10 Exemple d'intégration de données AIS 91
10.1 Préparation des données 91
10.2 Recipe preparation 94
10.3 Les graphiques 100
10.4 Préparation coordonnées géographiques 102
10.5 Les variables AIS 108
10.6 Création d'un dasboard 113
11 Les scénarios 122
12 Création d'un dossier de stockage 124
13 création d'un webapps 127
14 Annexe 130
14.1 Redémarrage de dataiku 130
14.2 Mise à disposition des fichiers à partir de l'extérieur 130
14.3 Mise en place de virtual radar server 130

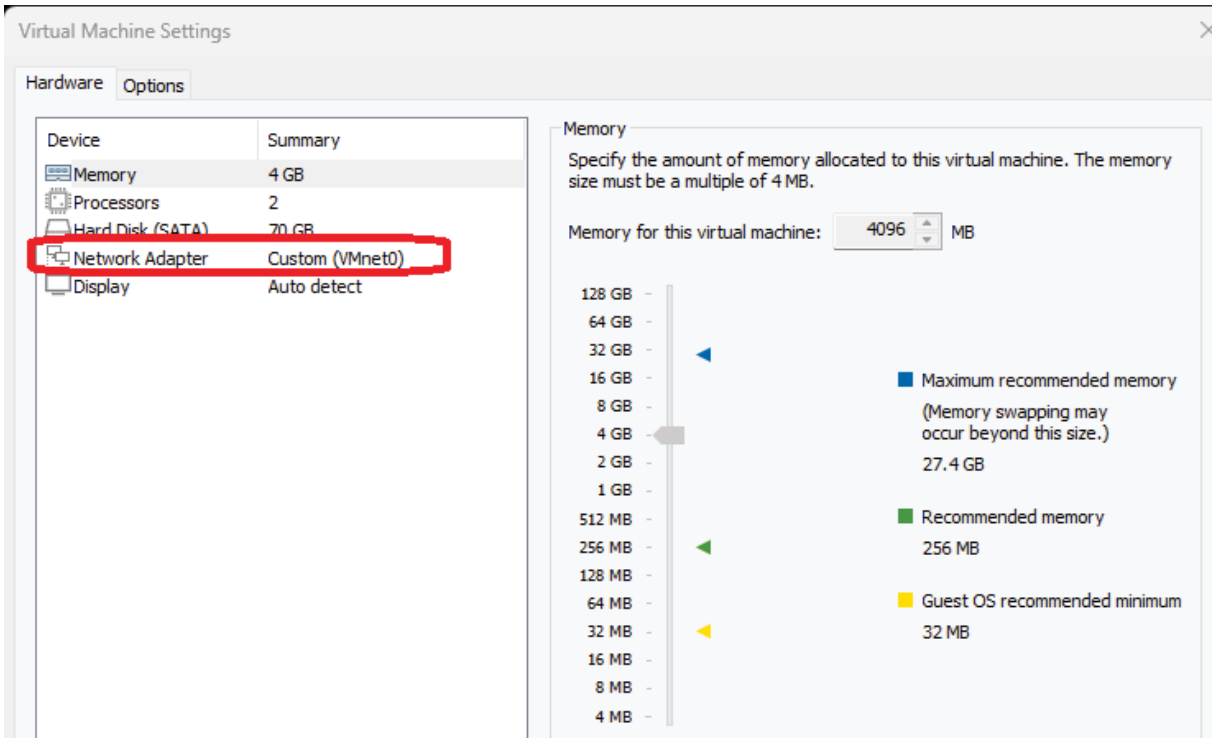
1 Présentation

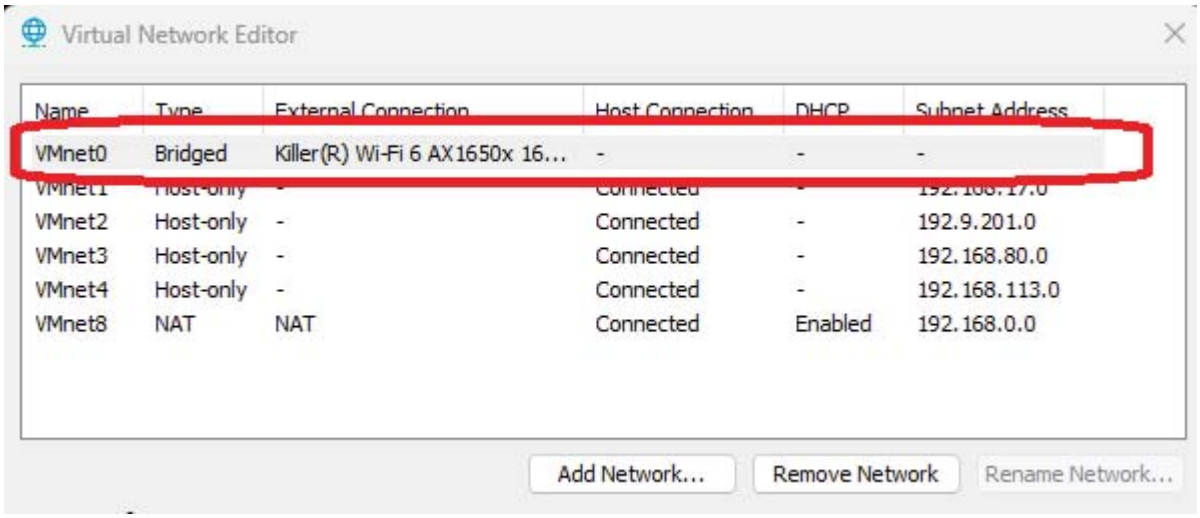
Dataiku DSS (Data Science Studio) est une **plateforme collaborative** conçue pour **simplifier, accélérer et industrialiser** les projets de **data science**, d'**analyse de données**, et de **machine learning**.

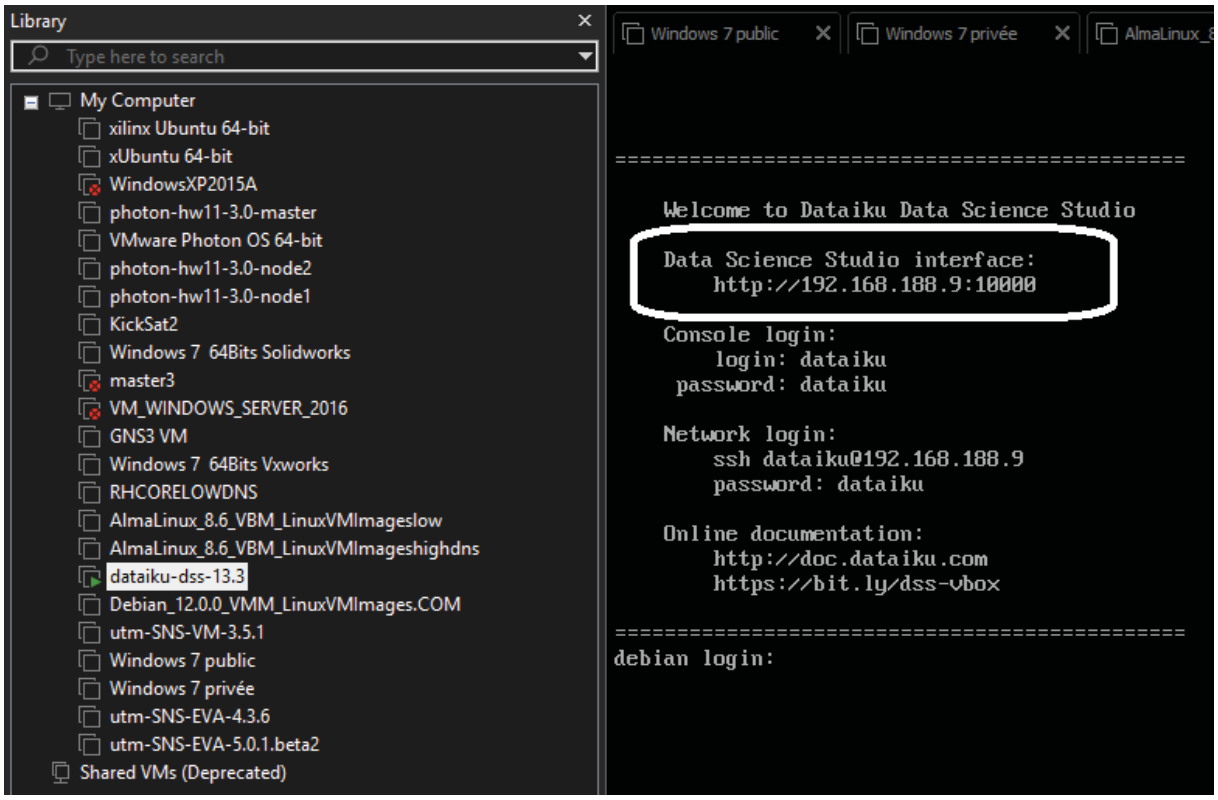


2 Connexion a dataiku

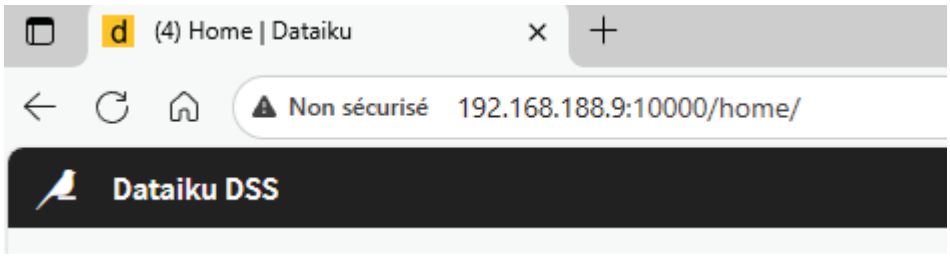
Ouvrir VMware workstation pro et la VM DSS13.3.2

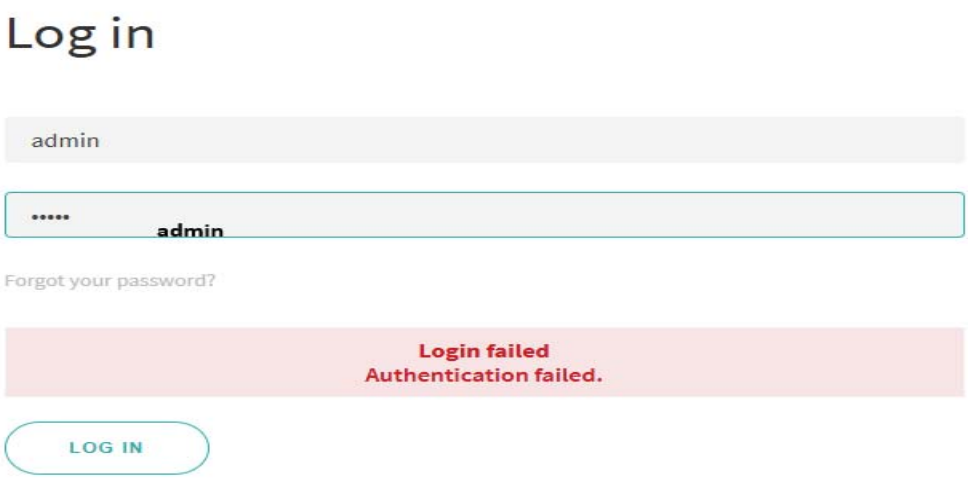






Sur firefox naviguez sur l'adresse IP suivante

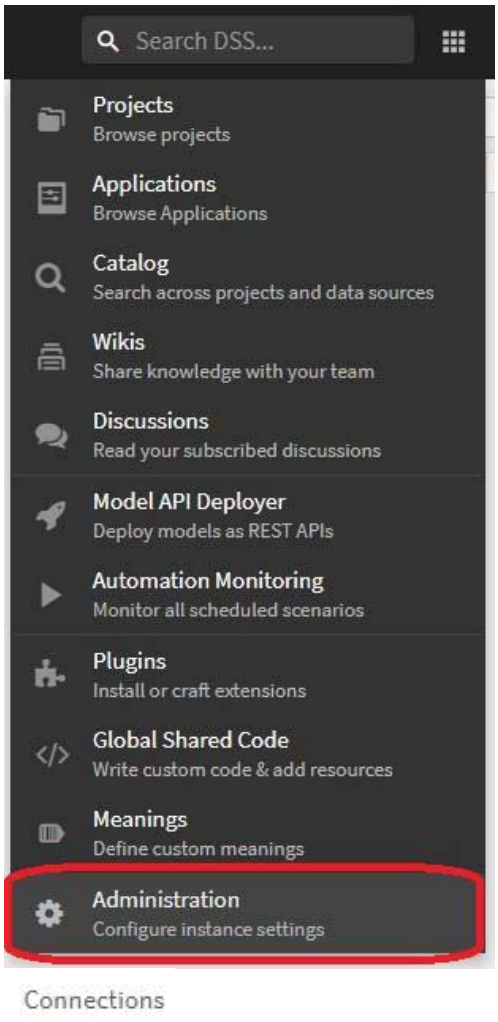




3 connexion à minio et à un objet S3

3.1 Le connecteur

Sur dataiku Mettre en place un connecteur

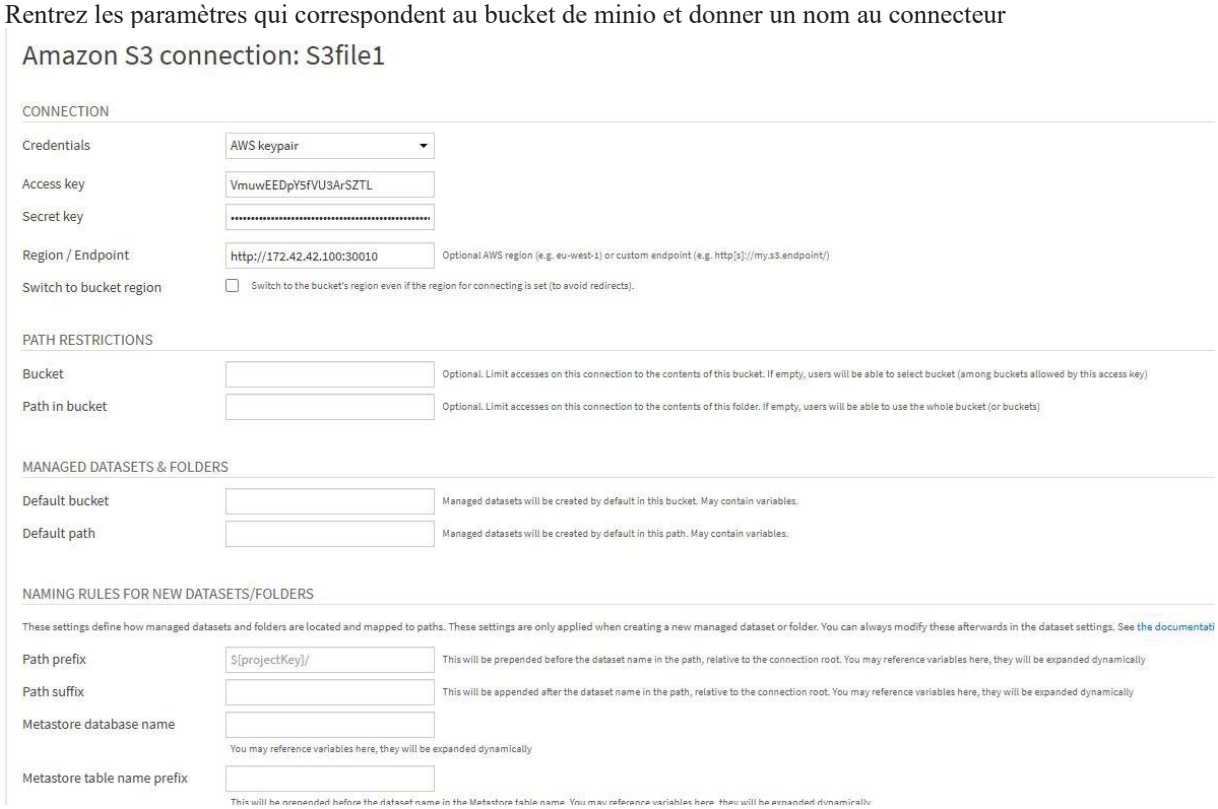




Choisir un objet du type amazon S3



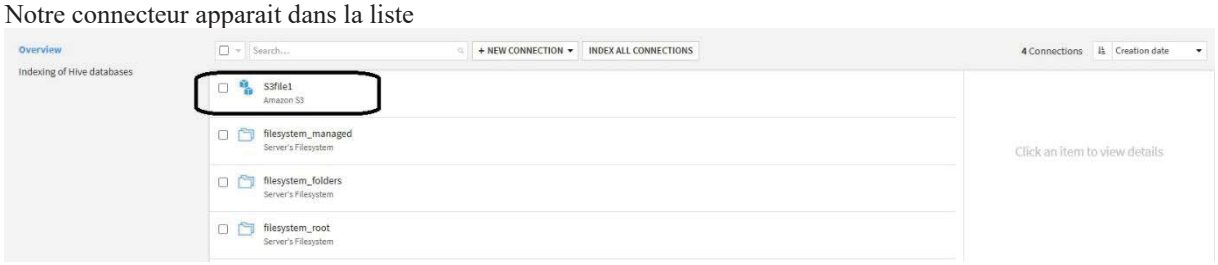
Rentrez les paramètres qui correspondent au bucket de minio et donner un nom au connecteur



Cliquez sur sauvegardez

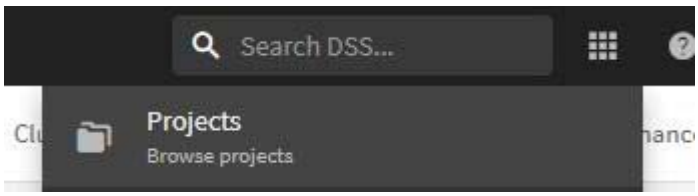


Notre connecteur apparait dans la liste

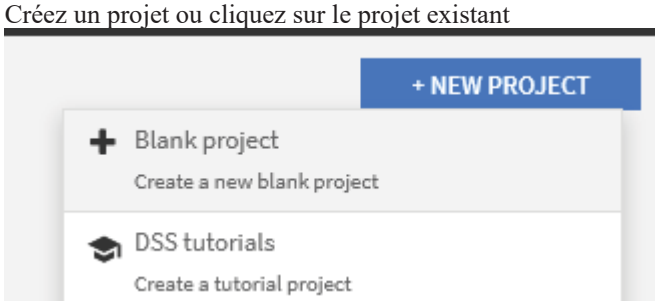


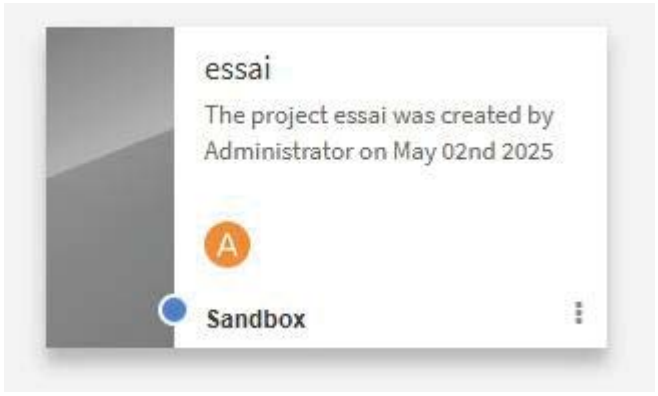
3.2 *Mise en place d'un projet*

Dans la mosaïque cliquez sur projet



Créez un projet ou cliquez sur le projet existant



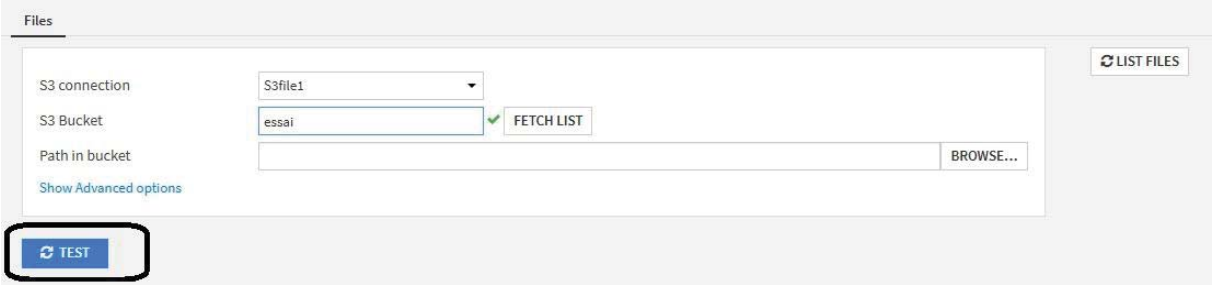


Importer notre premier dataset

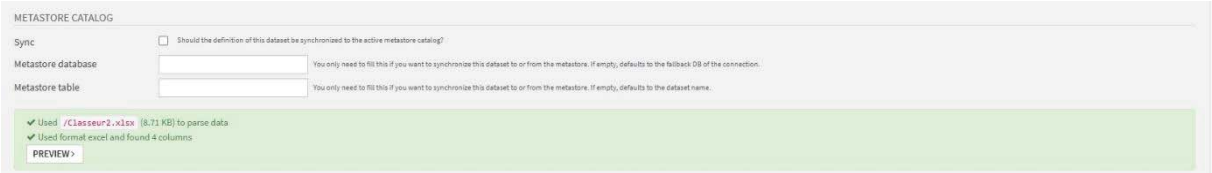


Choisir l'amazon S3 et notre connecteur créé précédemment

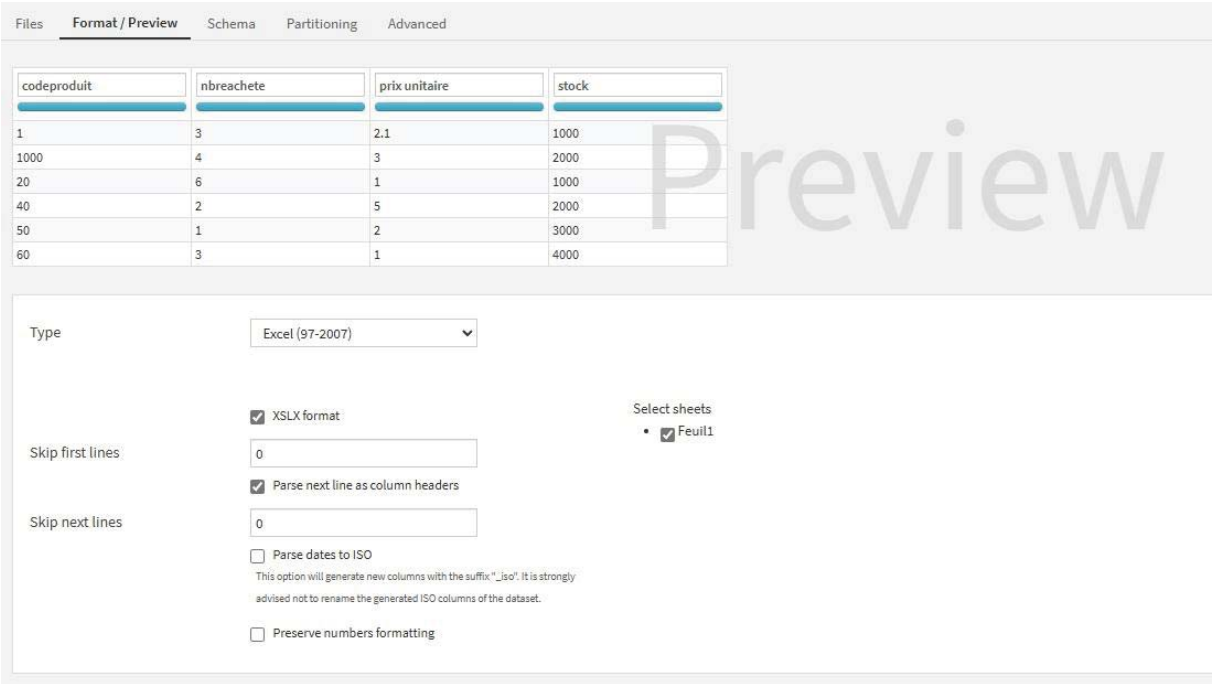




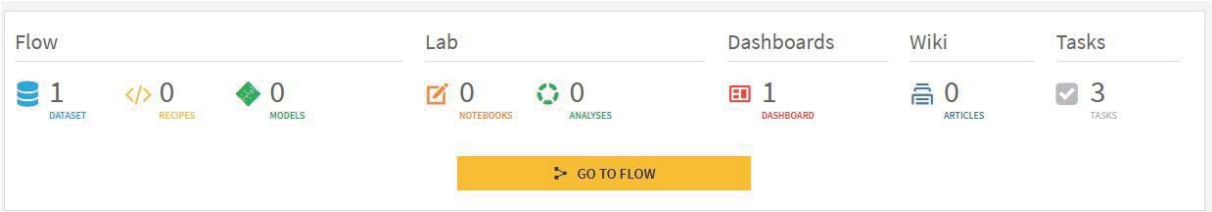
On voit l'intérieur de notre bucket



Sur l'onglet format preview



Revenir à notre projet

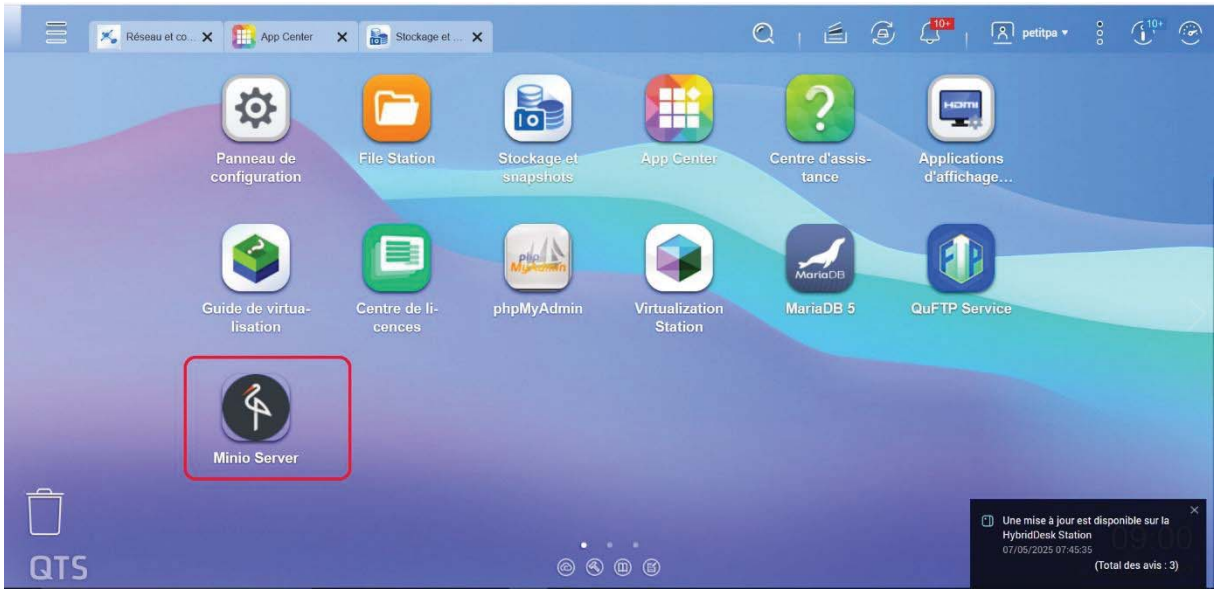


Cliquez sur le dataset

4 Dataiq et minio sur le serveurNAS

4.1 Minio sur le NAS

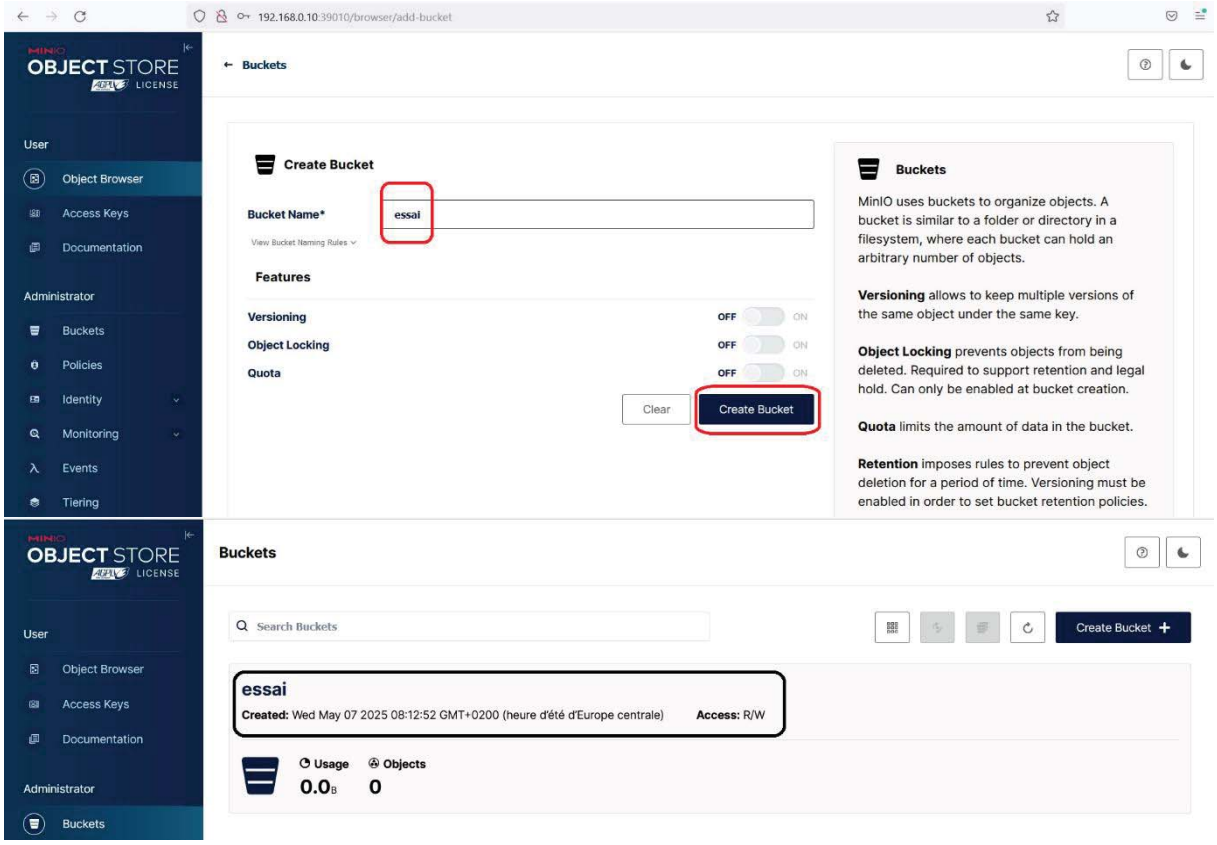
Sur le NAS on a intégré le serveur MINIO (en attente des API sur le port 9000)
Site web sur le port 39010

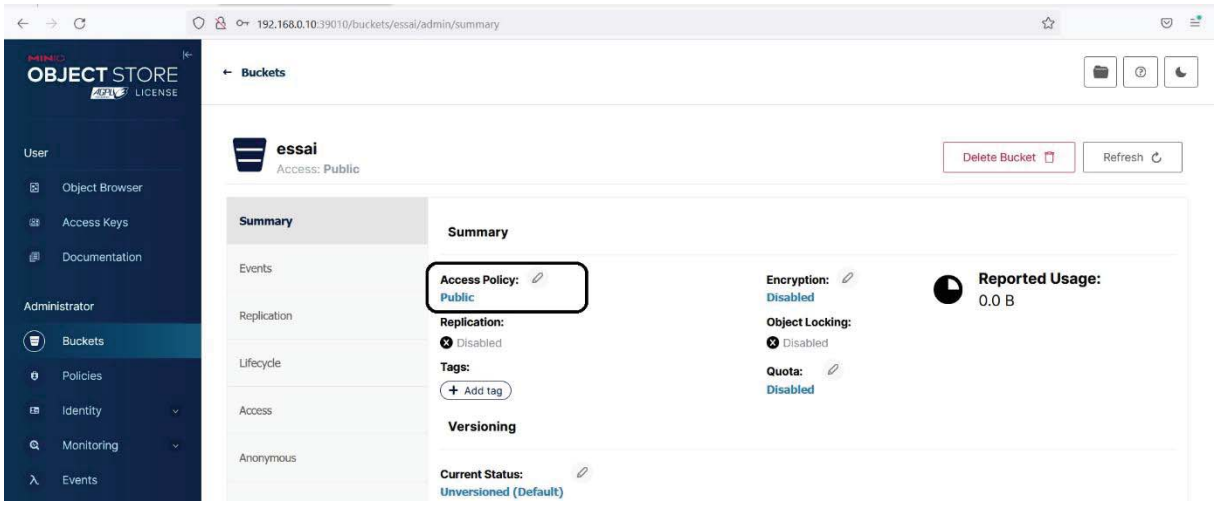


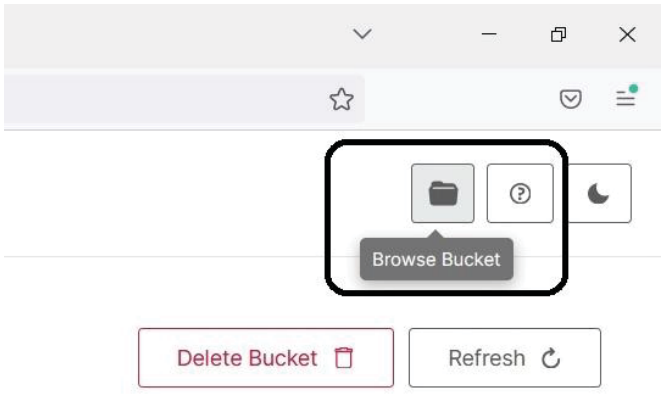
Login :admin

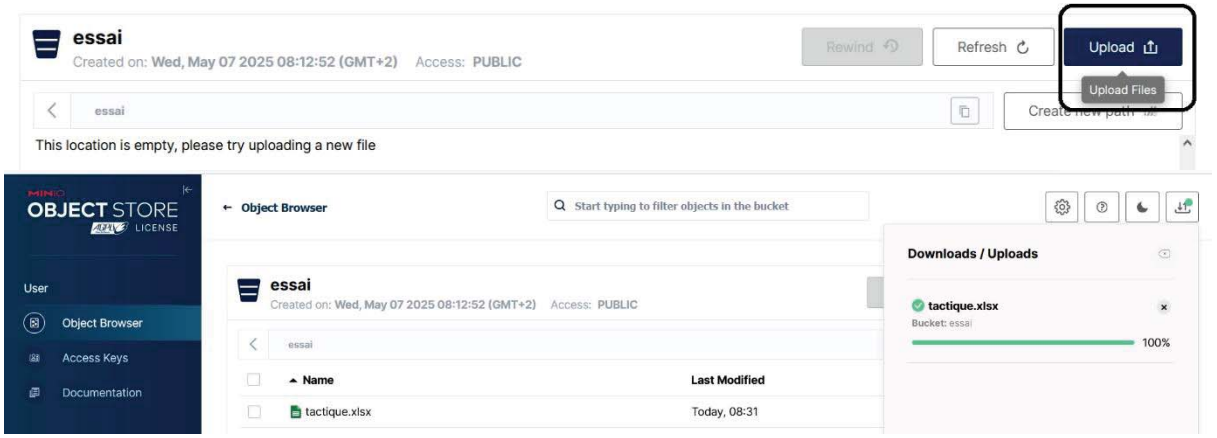
Password : password

On va créer un bucket nommé essai

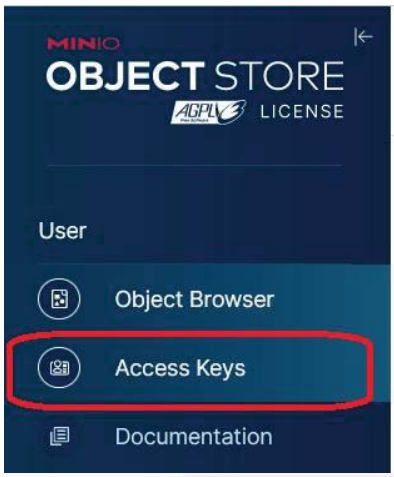


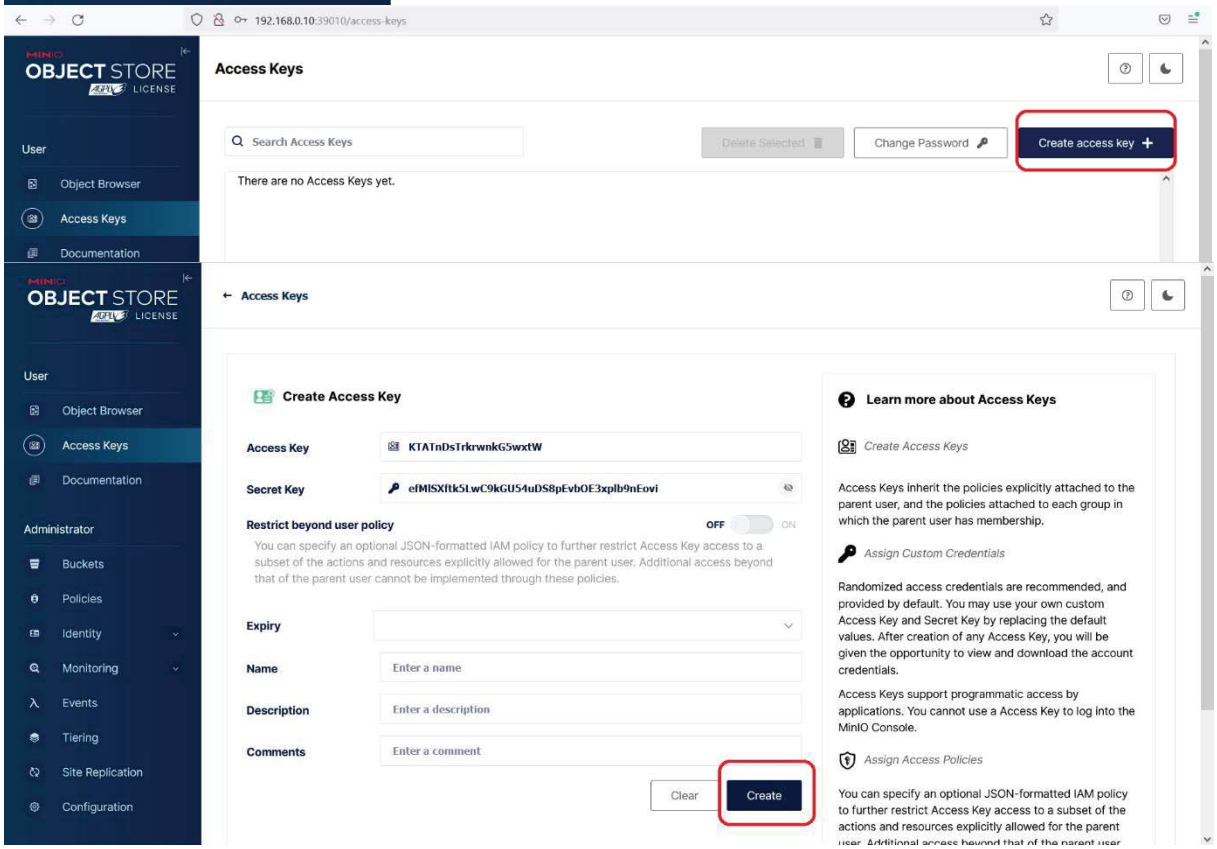

192.168.0.10:39010/buckets/essai/admin/summary
OBJECT STORE
LICENSE
Buckets
User
Object Browser
Access Keys
Documentation
Administrator
Buckets
Policies
Identity
Monitoring
Events
essai
Access: Public
Delete Bucket
Refresh
Summary
Events
Replication
Lifecycle
Access
Anonymous
Summary
Access Policy:
Public
Replication:
Disabled
Tags:
Add tag
Encryption:
Disabled
Object Locking:
Disabled
Quota:
Disabled
Reported Usage:
0.0 B
Versioning
Current Status:
Unversioned (Default)


Browse Bucket
Delete Bucket
Refresh

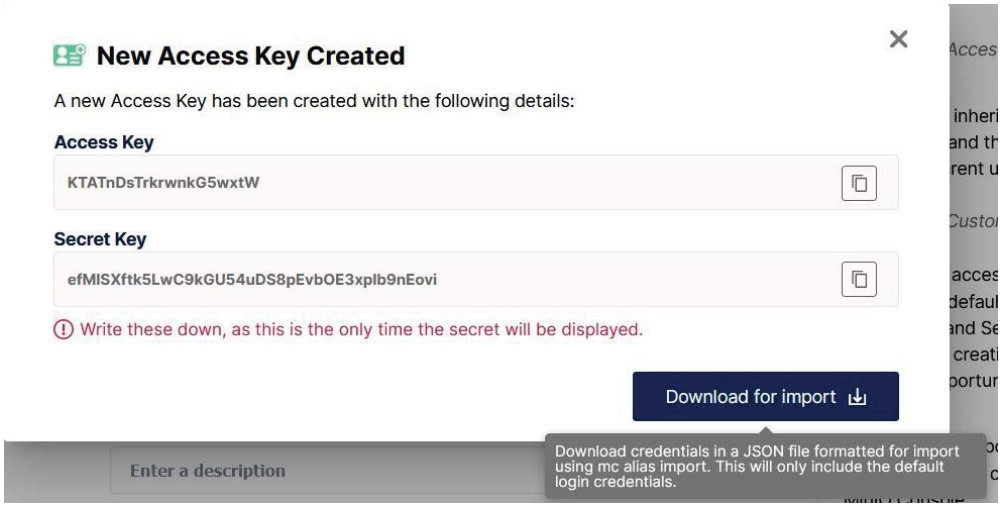

essai
Created on: Wed, May 07 2025 08:12:52 (GMT+2) Access: PUBLIC
Rewind
Refresh
Upload
Upload Files
essai
This location is empty, please try uploading a new file

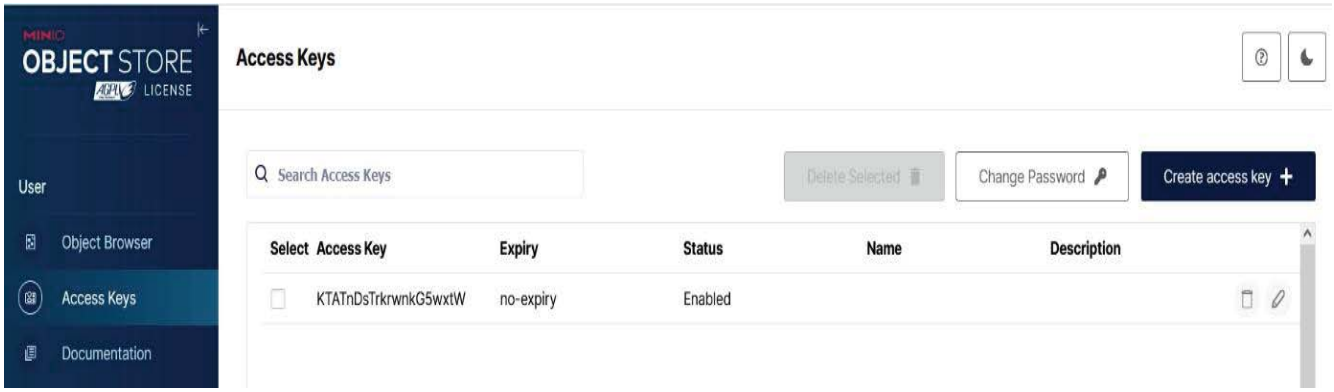
OBJECT STORE
LICENSE
Object Browser
Start typing to filter objects in the bucket
User
Object Browser
Access Keys
Documentation
essai
Created on: Wed, May 07 2025 08:12:52 (GMT+2) Access: PUBLIC
Downloads / Uploads
tactique.xlsx
Bucket: essai
100%
Name
Last Modified
tactique.xlsx
Today, 08:31


MINIO
OBJECT STORE
AGPLV3 LICENSE
User
Object Browser
Access Keys
Documentation


192.168.0.10:39010/access-keys
OBJECT STORE
LICENSE
User
Object Browser
Access Keys
Documentation
Access Keys
Search Access Keys
Delete Selected
Change Password
Create access key +
There are no Access Keys yet.

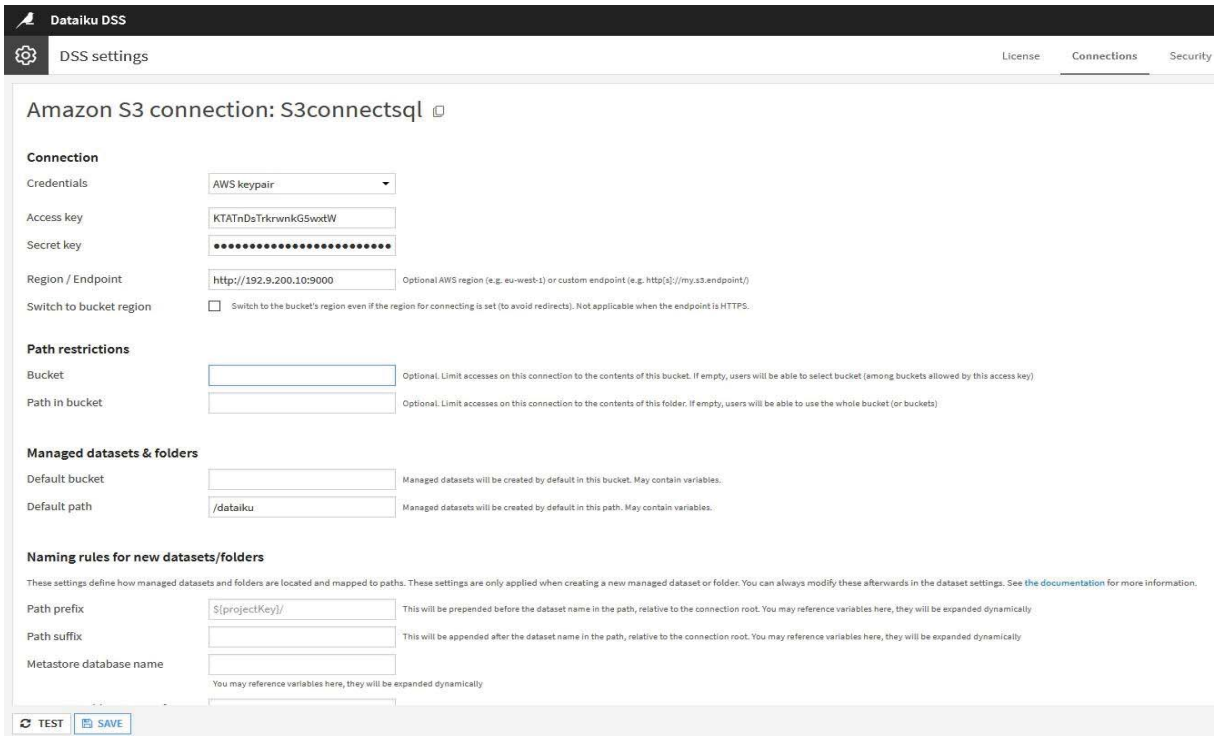
OBJECT STORE
LICENSE
User
Object Browser
Access Keys
Documentation
Administrator
Buckets
Policies
Identity
Monitoring
Events
Tiering
Site Replication
Configuration
Access Keys
Create Access Key
Access Key
KTATnDsTrkrwnkG5wxtW
Secret Key
efMlSXftk5LwC9kGU54uDS8pEvbOE3xplb9nEovi
Restrict beyond user policy
OFF
ON
You can specify an optional JSON-formatted IAM policy to further restrict Access Key access to a subset of the actions and resources explicitly allowed for the parent user. Additional access beyond that of the parent user cannot be implemented through these policies.
Expiry
Name
Enter a name
Description
Enter a description
Comments
Enter a comment
Clear
Create
Learn more about Access Keys
Create Access Keys
Access Keys inherit the policies explicitly attached to the parent user, and the policies attached to each group in which the parent user has membership.
Assign Custom Credentials
Randomized access credentials are recommended, and provided by default. You may use your own custom Access Key and Secret Key by replacing the default values. After creation of any Access Key, you will be given the opportunity to view and download the account credentials.
Access Keys support programmatic access by applications. You cannot use a Access Key to log into the MinIO Console.
Assign Access Policies
You can specify an optional JSON-formatted IAM policy to further restrict Access Key access to a subset of the actions and resources explicitly allowed for the parent


New Access Key Created
A new Access Key has been created with the following details:
Access Key
KTATnDsTrkrwnkG5wxtW
Secret Key
efMlSXftk5LwC9kGU54uDS8pEvbOE3xplb9nEovi
Write these down, as this is the only time the secret will be displayed.
Download for import
Download credentials in a JSON file formatted for import using mc alias import. This will only include the default login credentials.
Enter a description

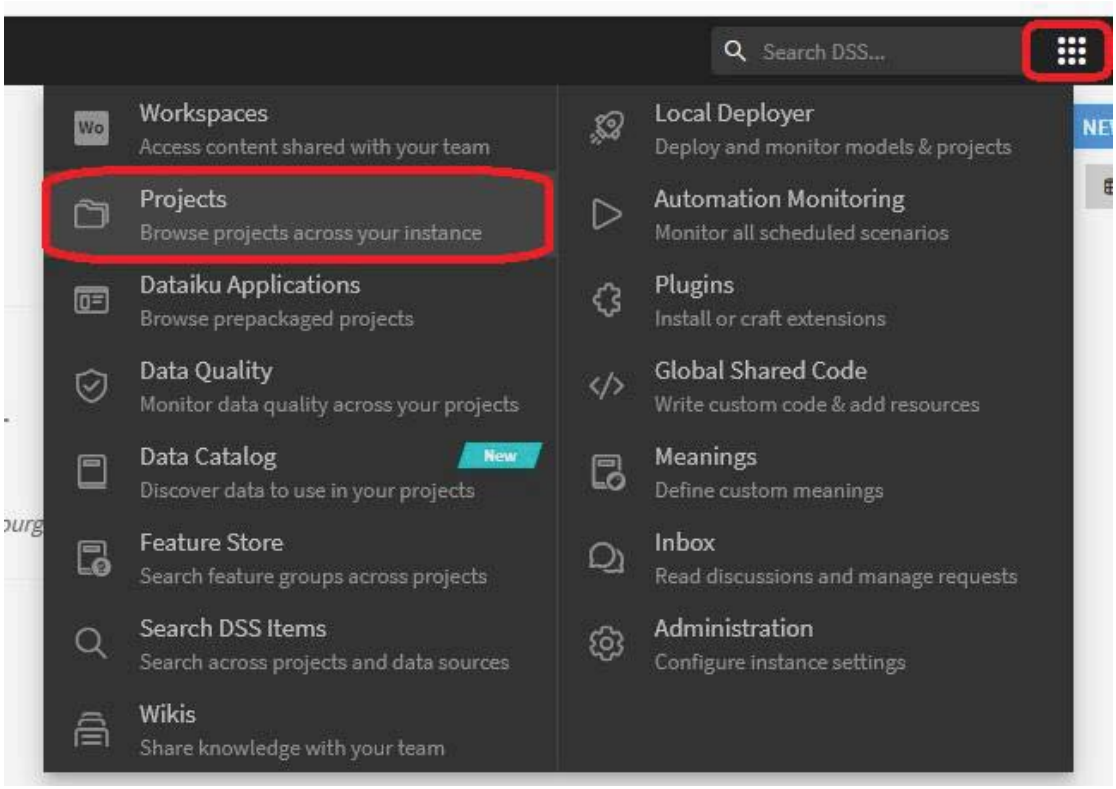


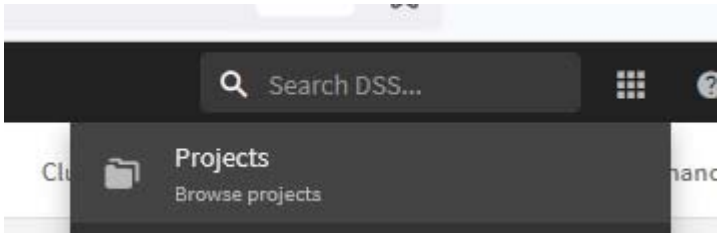
4.2 *Le connecteur*

Sur dataiku dans paramètre connexion

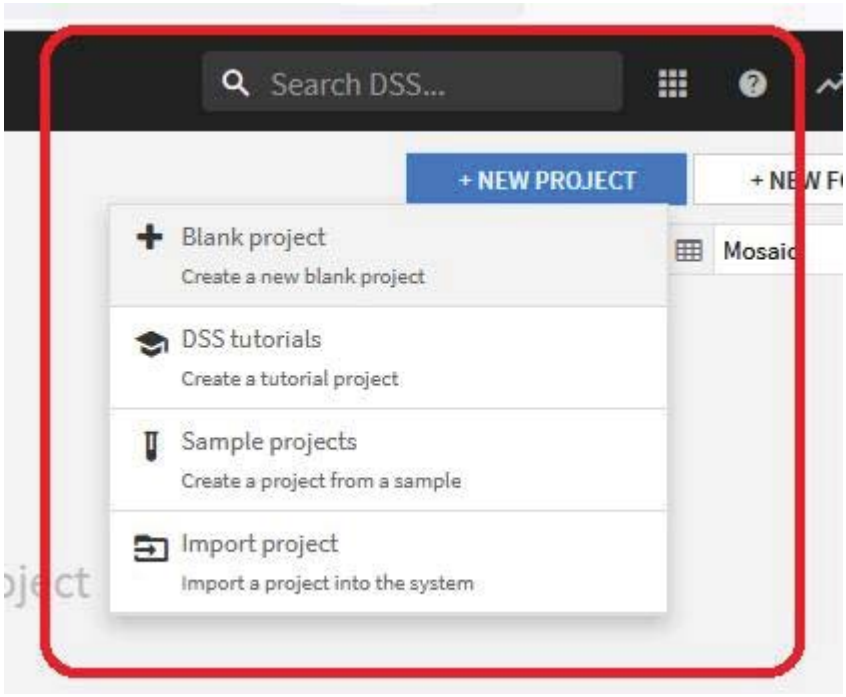


4.3 *Le projet*

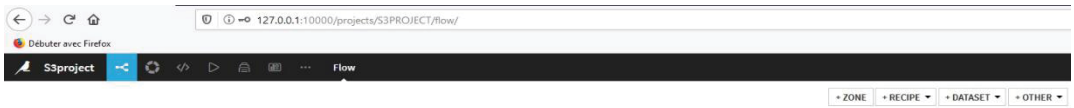

Search DSS...
Workspaces
Access content shared with your team
Projects
Browse projects across your instance
Dataiku Applications
Browse prepackaged projects
Data Quality
Monitor data quality across your projects
Data Catalog
New
Discover data to use in your projects
Feature Store
Search feature groups across projects
Search DSS Items
Search across projects and data sources
Wikis
Share knowledge with your team
Local Deployer
Deploy and monitor models & projects
Automation Monitoring
Monitor all scheduled scenarios
Plugins
Install or craft extensions
Global Shared Code
Write custom code & add resources
Meanings
Define custom meanings
Inbox
Read discussions and manage requests
Administration
Configure instance settings

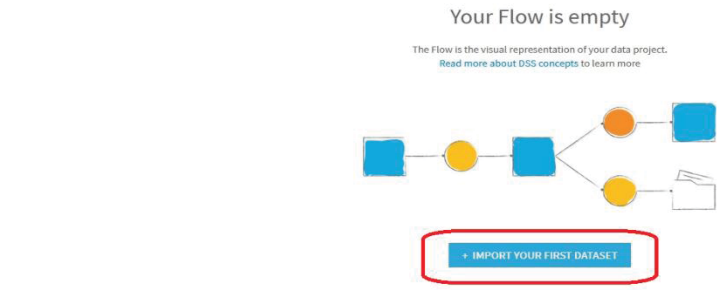

Search DSS...
Projects
Browse projects

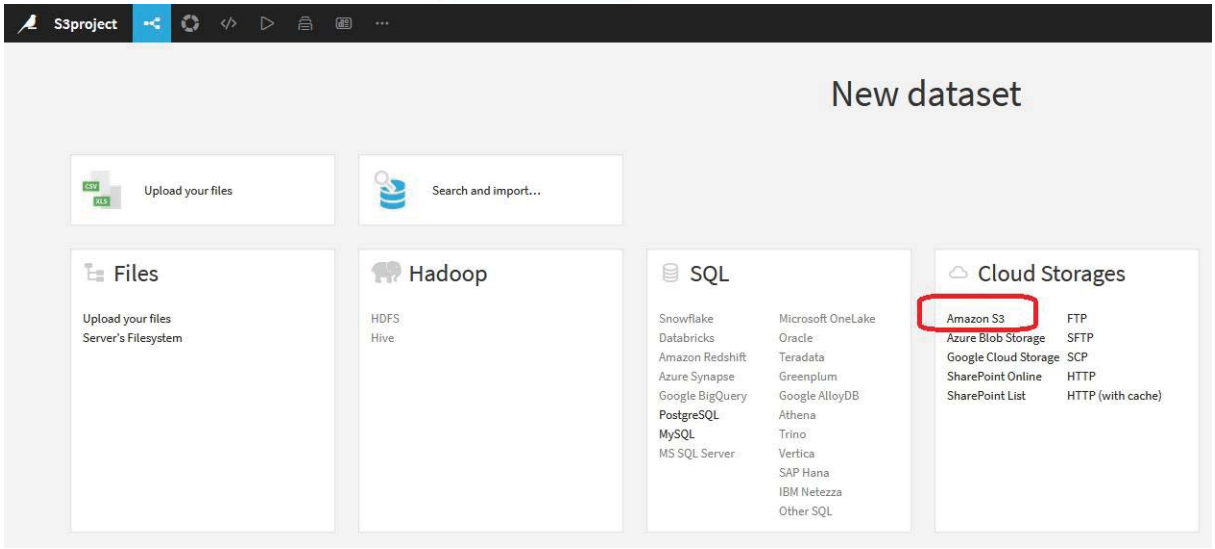

Dataiku DSS
Search DSS...
HOME > PROJECTS
+ NEW PROJECT
+ NEW FOLDER
Search projects...
Status
Tags
Users
Project Name
Mosaic

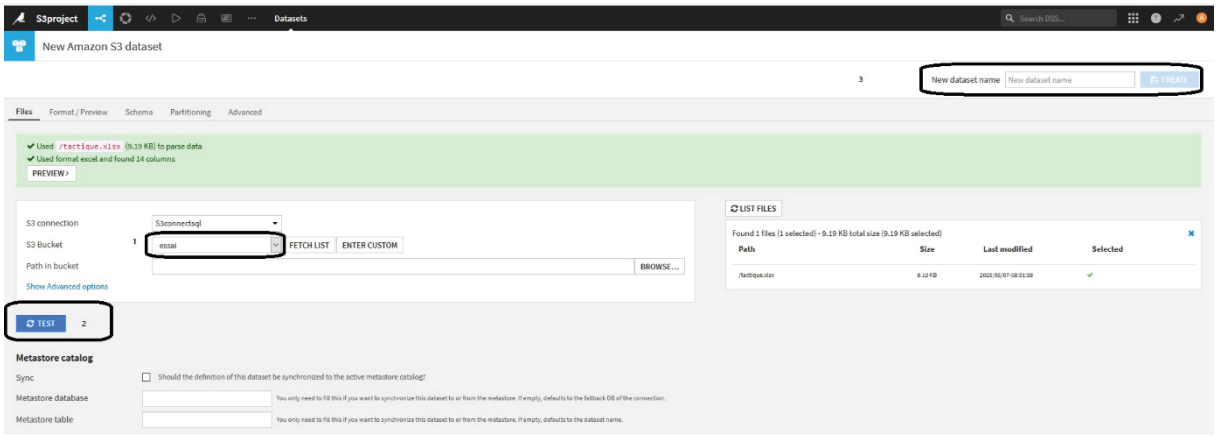


Allez sur le flow

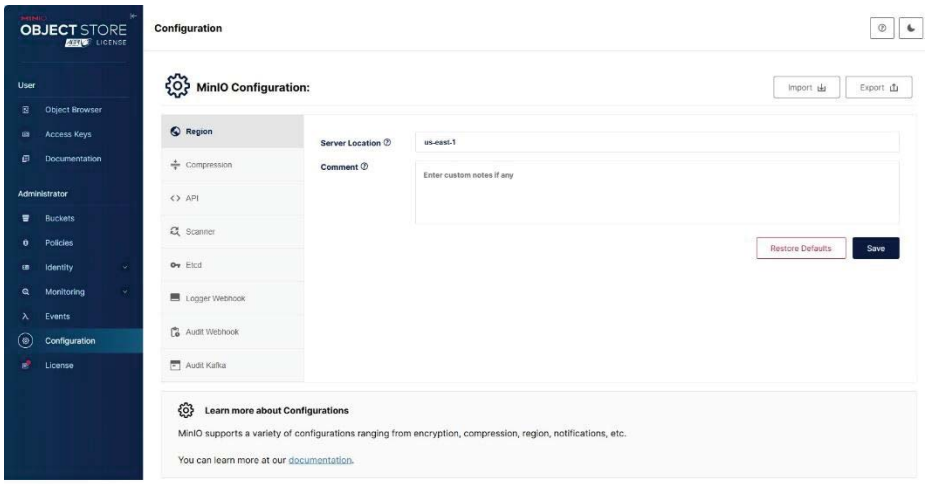


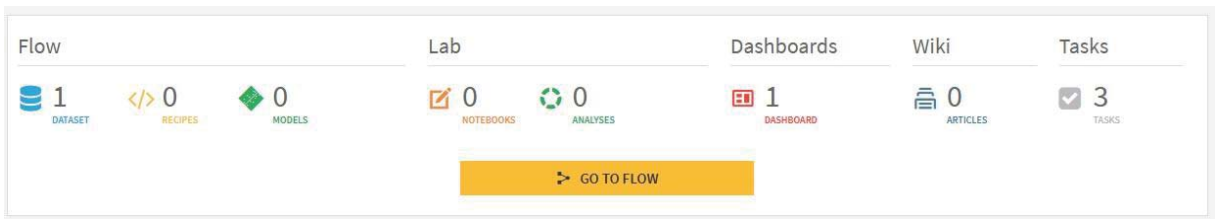





S3project
Datasets
New Amazon S3 dataset
New dataset name
CREATE
Files
Format / Preview
Schema
Partitioning
Advanced
PREVIEW
S3 connection
S3connectsql
S3 Bucket
essai
FETCH LIST
ENTER CUSTOM
Path in bucket
BROWSE...
Show Advanced options
TEST
LIST FILES
Path
Size
Last modified
Selected
Metastore catalog
Sync
Metastore database
Metastore table


New dataset name
S3NAS
CREATE


OBJECT STORE
Configuration
User
Object Browser
Access Keys
Documentation
Administrator
Buckets
Policies
Identity
Monitoring
Events
Configuration
License
MinIO Configuration:
Import
Export
Region
Compression
API
Scanner
Etcd
Logger Webhook
Audit Webhook
Audit Kafka
Server Location
us-east-1
Comment
Enter custom notes if any
Restore Defaults
Save
Learn more about Configurations
MinIO supports a variety of configurations ranging from encryption, compression, region, notifications, etc.
You can learn more at our documentation.


Flow
1
DATASET
0
RECIPES
0
MODELS
Lab
0
NOTEBOOKS
0
ANALYSES
Dashboards
1
DASHBOARD
Wiki
0
ARTICLES
Tasks
3
TASKS
GO TO FLOW