

Lab1: Data lakes and data integration in Azure

Create a virtual environment

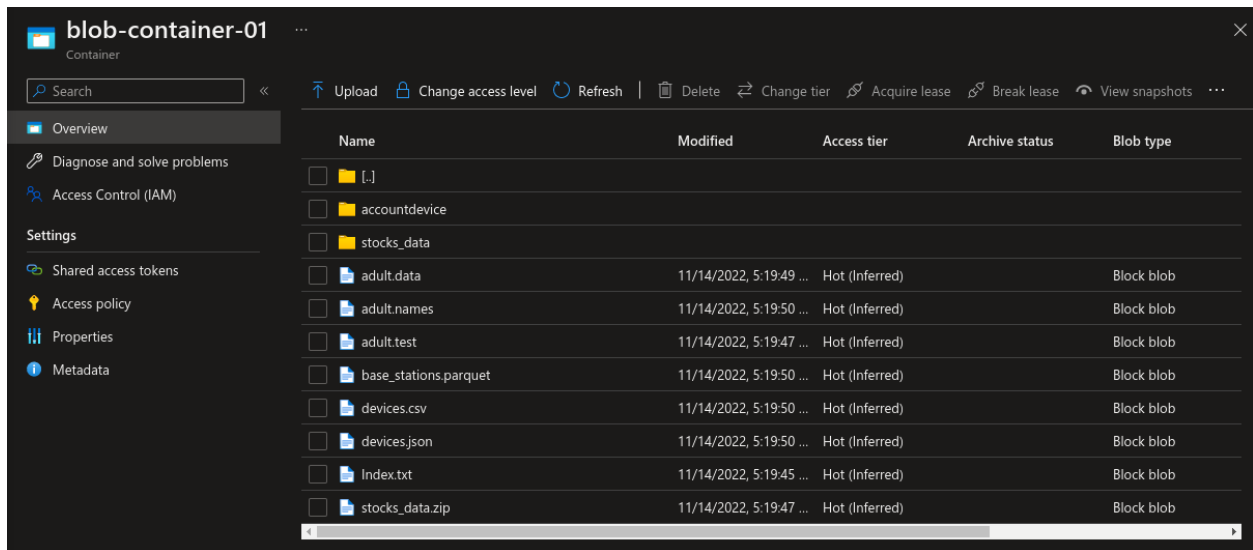
```
python -m venv .venv  
source .venv/bin/activate
```

Install the azure dependencies

```
pip install -r requirements.text
```

Upload our unstructured data files

I used the BlobServiceClient to upload local data in the Azure Storage Account blob container



Data is well stored as a data lake inside our “blob-container-01”.

```
Listing blobs...
data/datalakes-files/accountdevice/part-00000-f3b62dad-1054-4b2e-81fd-26e54c2ae76a.csv
data/datalakes-files/adult.data
data/datalakes-files/adult.names
data/datalakes-files/adult.test
data/datalakes-files/base_stations.parquet
data/datalakes-files/devices.csv
data/datalakes-files/devices.json
data/datalakes-files/stocks_data.zip
data/datalakes-files/stocks_data/AMAZON.csv
data/datalakes-files/stocks_data/APPLE.csv
data/datalakes-files/stocks_data/FACEBOOK.csv
data/datalakes-files/stocks_data/GOOGLE.csv
data/datalakes-files/stocks_data/MICROSOFT.csv
data/datalakes-files/stocks_data/TESLA.csv
data/datalakes-files/stocks_data/ZOOM.csv
```

Download blobs in the local directory

Remove the data lake and data locally

```
Deleting blob container...
Deleting the local source and downloaded files...
Done
['downloads/']
```

Home > pythonazurestorage12144

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Name	Last modified	Public access level	Lease state
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