Name:Malak Ahmed Mohamed Hamido

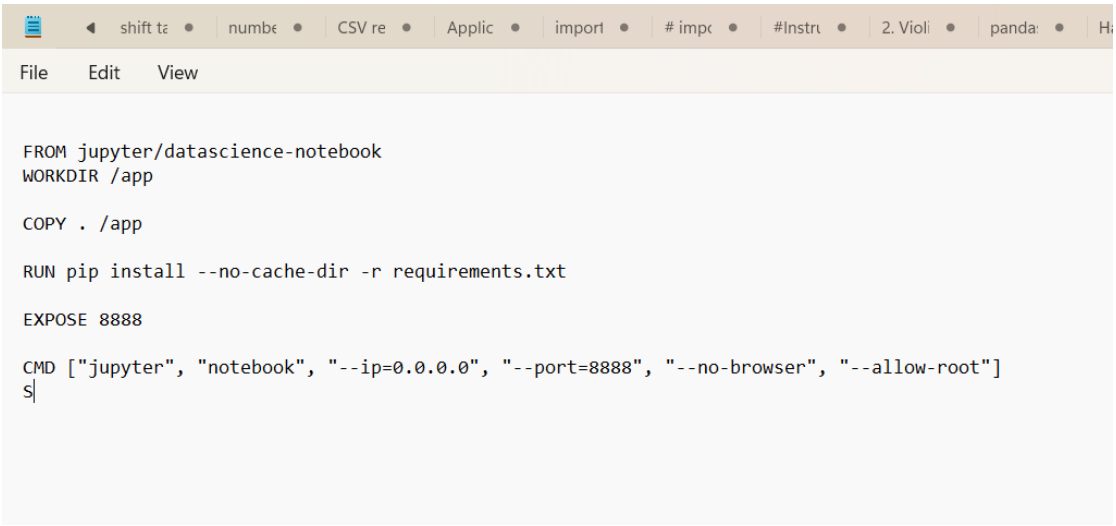
Id:2202125

Assignment 2 cloud section

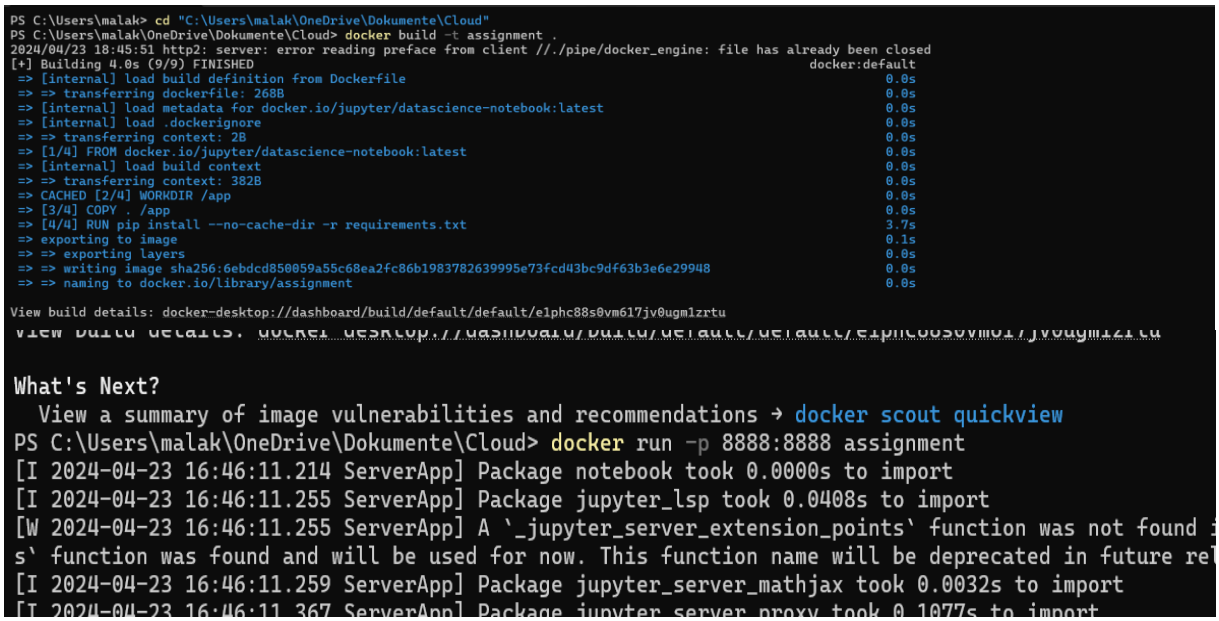
Steps of the docker commands

After pulling the base image which is Jupyter/datascience-notebook

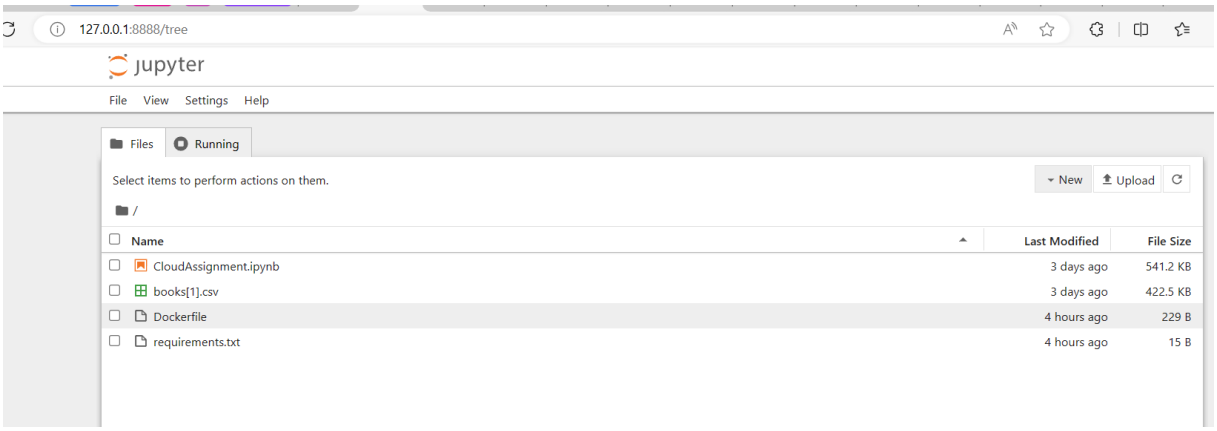
And also creating the Dockerfile



I saved the Docker file in folder named Cloud inside the documents



Now we can access the server inside it ou Notebook,csvfile ,dockerfile



To check the running containers

```
Windows PowerShell
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Install the latest PowerShell for new features and improvements! https://aka.ms/PSWindows

PS C:\Users\malak> docker ps
CONTAINER ID   IMAGE        COMMAND                  CREATED       STATUS                 PORTS                    NAMES
7e6e56f3cd97   assignment   "tini -g -- jupyter …"   4 hours ago   Up 4 hours (healthy)   0.0.0.0:8888->8888/tcp   hardcore_lehmann
PS C:\Users\malak> docker ps _a
"docker ps" accepts no arguments.
See 'docker ps --help'.

Usage:  docker ps [OPTIONS]

List containers
PS C:\Users\malak> docker ps -a
CONTAINER ID   IMAGE                          COMMAND                  CREATED       STATUS                     PORTS                    NAMES
7e6e56f3cd97   assignment                     "tini -g -- jupyter …"   4 hours ago   Up 4 hours (healthy)       0.0.0.0:8888->8888/tcp   hardcore_lehmann
34bfe6faac94   jupyter/datascience-notebook   "tini -g -- start-no…"   3 days ago    Exited (0) 3 days ago                               amazing_dijkstra
b725a84044ce   python:alpine                  "python3"                6 days ago    Exited (0) 6 days ago                               friendly_goldstine
c09f55583793   alpine                         "/bin/sh"                6 days ago    Exited (0) 6 days ago                               naughty_wilson
61a06e791467   hello-world                    "/hello"                 6 days ago    Exited (0) 6 days ago                               elegant_cartwright
PS C:\Users\malak> docker images
REPOSITORY                     TAG       IMAGE ID       CREATED         SIZE
assignment                     latest    6ebdcd850059   4 hours ago     5.92GB
ubuntu                         latest    7af9ba4f0a47   13 days ago     77.9MB
python                         alpine    f44387b48281   2 weeks ago     57.1MB
alpine                         latest    05455a08881e   2 months ago    7.38MB
jupyter/datascience-notebook   latest    f78a42f3bc9a   6 months ago    5.92GB
hello-world                    latest    d2c94e258dcb   11 months ago   13.3kB
PS C:\Users\malak>
```

After clicking Control c we interrupt the kernel so the container is no longer running

```
    To access the server, open this file in a browser:
        file:///home/jovyan/.local/share/jupyter/runtime/jpserver-7-open.html
    Or copy and paste one of these URLs:
        http://7e6e56f3cd97:8888/tree?token=96f82c2d1958743b5bb8c833b5f7e81e80fe20da0a05b6b2
        http://127.0.0.1:8888/tree?token=96f82c2d1958743b5bb8c833b5f7e81e80fe20da0a05b6b2
[I 2024-04-23 16:46:15.710 ServerApp] Skipped non-installed server(s): bash-language-server, dockerfile-language-server-nodejs, j
rver, jedi-language-server, julia-language-server, pyright, python-language-server, python-lsp-server, r-languageserver, sql-lang
ript-language-server, unified-language-server, vscode-css-languageserver-bin, vscode-html-languageserver-bin, vscode-json-languag
server
[W 2024-04-23 16:46:31.046 ServerApp] Clearing invalid/expired login cookie username-localhost-8888
[I 2024-04-23 16:46:31.047 JupyterNotebookApp] 302 GET /notebooks/Titanic.ipynb (@172.17.0.1) 1.97ms
0.00s - Debugger warning: It seems that frozen modules are being used, which may
0.00s - make the debugger miss breakpoints. Please pass -Xfrozen_modules=off
0.00s - to python to disable frozen modules.
0.00s - Note: Debugging will proceed. Set PYDEVD_DISABLE_FILE_VALIDATION=1 to disable this validation.
[I 2024-04-23 20:50:50.013 ServerApp] Interrupted...


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| | | |_ __   __ _ _ __ __| | __ _| |_ ___
| | | | '_ \ / _` | '__/ _` |/ _` | __/ _ \
 \___/| .__/\__,_|_|  \__,_|\__,_|\__\___|
      |_|

Read the migration plan to Notebook 7 to learn about the new features and the actions to take if you are using extensions.

https://jupyter-notebook.readthedocs.io/en/latest/migrate_to_notebook7.html

Please note that updating to Notebook 7 might break some of your extensions.

PS C:\Users\malak\OneDrive\Dokumente\Cloud> ^C
PS C:\Users\malak\OneDrive\Dokumente\Cloud> docker ps
CONTAINER ID   IMAGE     COMMAND   CREATED   STATUS    PORTS     NAMES
PS C:\Users\malak\OneDrive\Dokumente\Cloud>
```
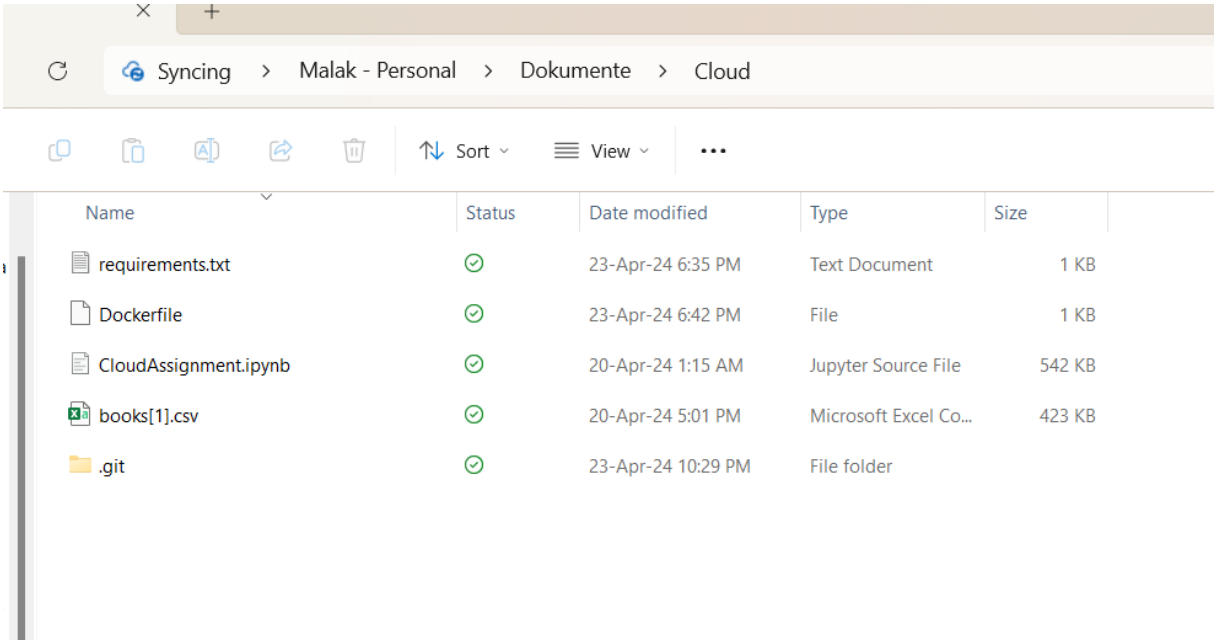

My cloud folder:



Uploading to github:

```
PS C:\Users\malak> git config --global user.name "Malakkhamido"
PS C:\Users\malak> git config --global user.email "malakahmedhamido2004@gmail.com"
PS C:\Users\malak> cd "C:\Users\malak\OneDrive\Dokumente\Cloud"
PS C:\Users\malak\OneDrive\Dokumente\Cloud> git init
Initialized empty Git repository in C:/Users/malak/OneDrive/Dokumente/Cloud/.git/
PS C:\Users\malak\OneDrive\Dokumente\Cloud> git add .
warning: in the working copy of 'CloudAssignment.ipynb', LF will be replaced by CRLF the next time Git touches it
warning: in the working copy of 'books[1].csv', LF will be replaced by CRLF the next time Git touches it
PS C:\Users\malak\OneDrive\Dokumente\Cloud> git commit -m "Initial commit with Dockerfile,  HarryPotterJupyter Notebook, booksdataset, and analysis results"
[master (root-commit) 9ff09ef] Initial commit with Dockerfile,  HarryPotterJupyter Notebook, booksdataset, and analysis results
 4 files changed, 5691 insertions(+)
 create mode 100644 CloudAssignment.ipynb
 create mode 100644 Dockerfile
 create mode 100644 books[1].csv
 create mode 100644 requirements.txt
PS C:\Users\malak\OneDrive\Dokumente\Cloud> git remote add origin

PS C:\Users\malak\OneDrive\Dokumente\Cloud> git remote add origin https://github.com/Malakkhamido/CloudProject
PS C:\Users\malak\OneDrive\Dokumente\Cloud>  git remote add origin https://github.com/Malakkhamido/CloudProject.git
error: remote origin already exists.
PS C:\Users\malak\OneDrive\Dokumente\Cloud> git branch -M main
PS C:\Users\malak\OneDrive\Dokumente\Cloud> git push -u origin main
info: please complete authentication in your browser...
Enumerating objects: 6, done.
Counting objects: 100% (6/6), done.
Delta compression using up to 16 threads
Compressing objects: 100% (5/5), done.
Writing objects: 100% (6/6), 418.22 KiB | 7.34 MiB/s, done.
Total 6 (delta 0), reused 0 (delta 0), pack-reused 0 (from 0)
To https://github.com/Malakkhamido/CloudProject
 * [new branch]      main -> main
branch 'main' set up to track 'origin/main'.
PS C:\Users\malak\OneDrive\Dokumente\Cloud>
```