Tutorial session

Setting-up a VESPA service using custom API from MongoDB

Setting up an EPN-TAB service and MongoDB

get instruction from:

https://git.cbk.waw.pl/tomasik/vespa_tutorial

Result expected:

*Running VO server

*Running mongoBD

Add some software to Dachs container

docker exec -it dachs /bin/bash

- apt update
- apt-get install mc l nano python iputils-ping python3-pip screen openssh-server
- pip3 install pymongo pandas flask waitress

Create user and activate ssh

useradd -m -d /home/myuser myuser

usermod -aG sudo myuser

passwd myuser

/etc/init.d/ssh start

now you can ssh to 127.0.0.1:2022 to have an nice console

create our REST API for databases in mongoDB

cd $home

mkdir mongoapi

cd mongoapi

wget --no-check-certificate -O mongo_create_rest_api.py https://git.cbk.waw.pl/tomasik/vespa_tutorial/-/raw/main/mongo_create_rest_api.py?inline=false

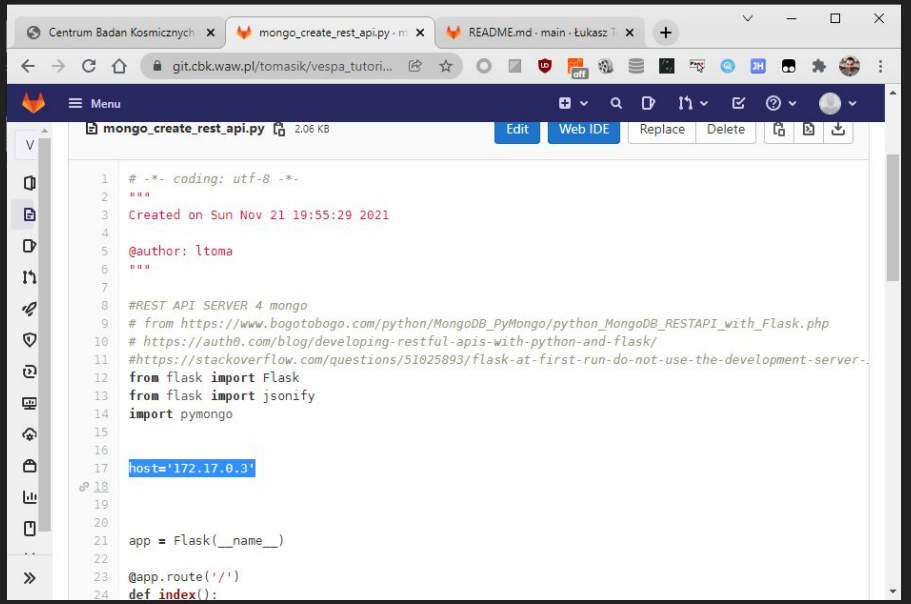
To find your mongoDB IP

run in cmd

docker inspect -f '{{range.NetworkSettings.Networks}}{{.IPAddress}}{{end}}' mongo4vespa

Correct the mongo Ip address

nano +17 mongo_create_rest_api.py



Run the REST API for mongo server

run command

screen -d -m python3 mongo_create_rest_api.py

and see the world:

http://127.0.0.1:5000/

Create our first database in mongoDB

cd $home

mkdir mongodatabase

cd mongodatabase

wget --no-check-certificate -O mongo_create_database.py https://git.cbk.waw.pl/tomasik/vespa_tutorial/-/raw/main/mongo_create_database.py?inline=false

and edit the ip address as well:

```
nano +17 mongo_create_database.py
```

run command

```
python3 mongo_create_database.py
```

Visit the Mars :)

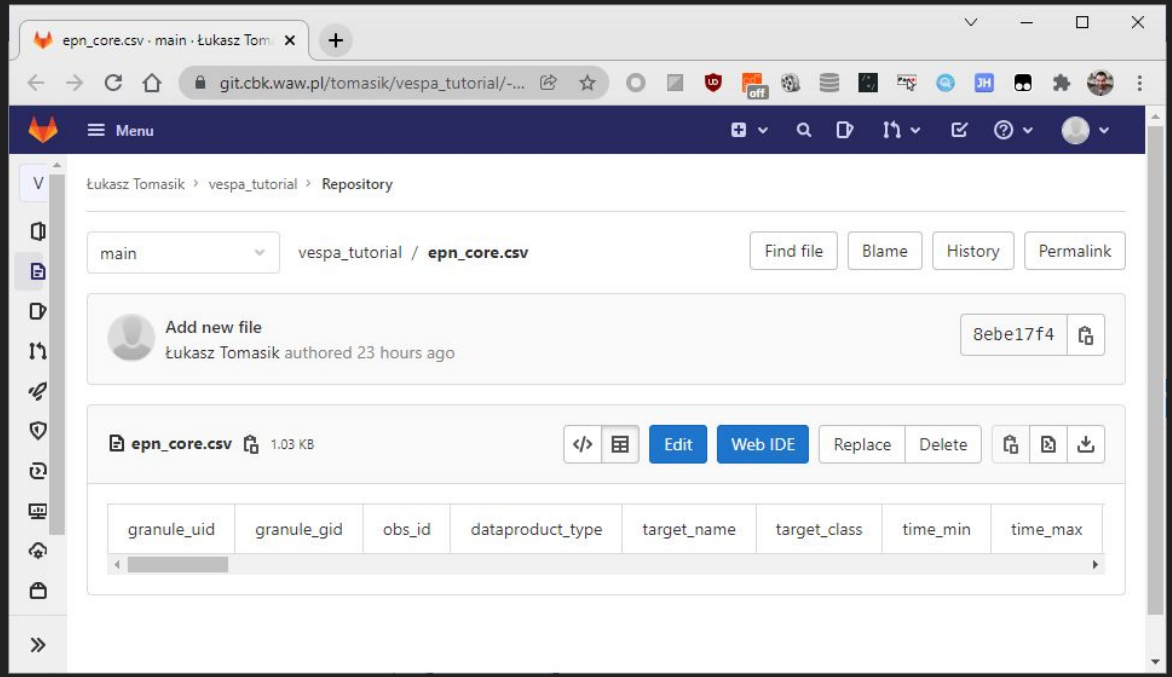
http://127.0.0.1:5000/planet/Mars

Import data using empty csv trik

cd /var/gavo/imputs

mkdir mongoplanet

cd mongoplanet



download files:

wget --no-check-certificate -O epn_core.csv
https://git.cbk.waw.pl/tomasik/vespa_tutorial/-/raw/main/epn_core.csv?inline=false

wget --no-check-certificate -O input_template.json
https://git.cbk.waw.pl/tomasik/vespa_tutorial/-/raw/main/input_template.json?inline=false

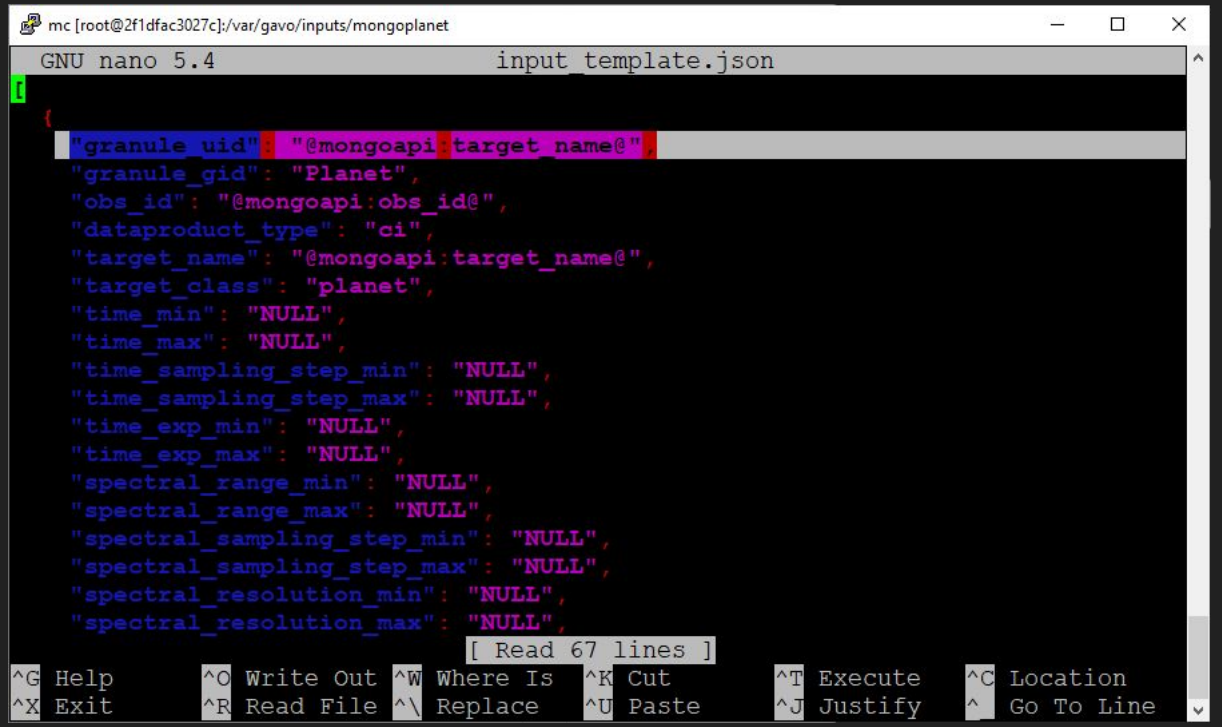
wget --no-check-certificate -O qmongo.rd
https://git.cbk.waw.pl/tomasik/vespa_tutorial/-/raw/main/qmongo.rd?inline=false

wget --no-check-certificate -O mongo2psql.py
https://git.cbk.waw.pl/tomasik/vespa_tutorial/-/raw/main/mongo2psql.py?inline=false

Check the input_template.json

nano input_template.json

it is helping generate query



now set up the mongoplanet:

gavo val qmongo.rd

gavo imp qmongo.rd

dachs serve restart

see your empty table

http://127.0.0.1:8080/__system__/adql/query/form?__nevow_form__=genForm&query=select%20*%20from%20mongoplanet.epn_core

Run the script

python3 mongo2psql.py

and check your mongoplanet page:

http://127.0.0.1:8080/__system__/adql/query/form?__nevow_form__=genForm&query=select%20*%20from%20mongoplanet.epn_core