Sergiu Buhatel

OmniSci on NVIDIA DGX A100

Table of Contents

[1 Run 1](#_Toc194746411)

[2 SQL 1](#_Toc194746412)

[3 Import 2](#_Toc194746413)

[4 Basic Commands 2](#_Toc194746414)

[5 omnisql 3](#_Toc194746415)

[6 References 3](#_Toc194746416)

# Run

cd /home/ra2/omnisci

./launch.sh

If is running already, stop it and remove the container and re-launch again.

docker ps -a

docker kill <container>

docker rm <container>

# SQL

Tap into the running docker container

docker exec -it <container> bash

./bin/omnisql

# Import

Tap into the running docker container

docker exec -it <container> bash

./bin/omnisql

# Basic Commands

# Install omnisci on Ubuntu (This can be done once, and it is already done)

sudo docker pull omnisci/core-os-cuda:latest

# List docker images

docker images

# Stop existing OmniSci server in case it is running and you want to running it again

sudo docker ps | grep omnisci

sudo docker kill <container id>

# Check whether OmniSci server is till running

sudo docker ps

# Launch OmniSci server

cd /home/ra2/omnisci

./launch.sh

# If getting an error remove the existing container

sudo docker rm <container id>

# This is the content of launch.sh

sudo -E docker run --runtime=nvidia \

--name omnisci \

-v /home/ra2/omnisci/omnisci-docker-storage:/omnisci-storage \

-v /home/ra2:/mnt/data \

-p 6273-6280:6273-6280 \

omnisci/core-os-cuda:latest

# It mounts /home/ra2/omnisci/omnisci-docker-storage into /omnisci-storage for

# storing the database, and /home/ra2 to /mnt/data for

# having access to the twitter csv files in the /home/ra2/twitter\_tables directory

# Launch a bourne shell inside the running docker container

# Find first the running container id

sudo docker ps | grep omnisci

# Launch the bourse shell inside the docker container

sudo docker exec -it <container id> bash

# This will change the prompt to #

# Change the directory to /omnisci/bin and launch omnisql

cd /omnisci/bin

./omnisql

# Password: HyperInteractive

# Create a dummy table in omnisci and quary the data

# Open a new commad prompt and chnage directory to /home/ra2/omnisci

cd /home/ra2/omnisci

# Activate the virtual enviroment previously created

source env/bin/activate

# If you don't have the virtual enviroment, created as following

python3 -m venv env

# and then activate the virtual environment

source env/bin/activate

# Create a table and display the results

python create\_table.py

python add\_data.py

python display\_table.py

# omnisql

# Launch the bourse shell inside the docker container

sudo docker exec -it <container id> bash

# This will change the prompt to #

# Change the directory to /omnisci/bin and launch omnisql

cd /omnisci/bin

./omnisql

# Password: HyperInteractive

|  |  |
| --- | --- |
| **Command** | **Description** |
| \t | List tables |
| \h | Help |

At omnisql> command prompt, you ca issue SQL commands.

# References

<https://docs.omnisci.com/v5.1.0/4_docker_gpu_os_apt_recipe.html>