INSTRUCTIONS FOR THE HANDS-ON OF THE 2021 ONLINE TRAINING COURSE ON HPDA & VISUALISATION

13-16, September, 2021, 2:30pm - 4:30pm CEST

Zoom Link:

https://zoom.us/j/94735251277?pwd=emVtMXRReUg4S1BscE81RmJhWnVYZz09
Meeting ID: 947 3525 1277
Passcode: 514910

To actively take part in the demonstration and hands-on during the training course the following software is required:

VISUALISATION SESSIONS 13-14, September, 2021

Please download and install Paraview, preferably version 5.9,
https://www.paraview.org/download/

Please also download the sample files from
https://swiftbrowser.dkrz.de/public/dkrz_8656c91ce0734327b6dc867fc5b6b068/ESiWACE2-Public/
you can do this by using the make scripts in `Training2021/Session1/` and `Training2021/Session2/` of the gitlab repository at
`https://github.com/ESiWACE/hpda-vis-training.git`
(see below)

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A Docker image with the complete software stack (Ophidia, Jupyter Notebook, Python modules, etc.) for the HPDA hands-on is provided. More information about the image can be found at: https://hub.docker.com/r/ophidiabigdata/ophidia-training

Requirements:

- Docker engine: https://docs.docker.com/get-docker/
- Git (command line recommended)
- Linux OS is recommended
- 3GB of disk space, 2GB of memory and 2 cores are recommended

Instructions:

To download the image from Dockerhub run the following command:

```
docker pull ophidiabigdata/ophidia-training:latest
```

Then you can download the material from the GitHub repository:

```
git clone https://github.com/ESiWACE/hpda-vis-training.git
```

Please note that the complete training material will be uploaded in the next few days before the sessions.

To check if the setup is working, you can start the container from the `hpda-vis-training/Training2021` folder in the repository with the following command:

```
docker run --rm -it -v $PWD:/home/ophidia/notebooks
ophidiabigdata/ophidia-training:latest
```

If started correctly you should something like the following in the terminal log:

```
[I 20:43:36.116 NotebookApp] Writing notebook server cookie secret to
/usr/local/ophidia/.local/share/jupyter/runtime/notebook_cookie_secret
[I 20:43:36.539 NotebookApp] Serving notebooks from local directory: /home/ophidia
[I 20:43:36.539 NotebookApp] Jupyter Notebook 6.4.0 is running at:
[I 20:43:36.540 NotebookApp] http://172.17.0.2:8888/
[I 20:43:36.540 NotebookApp] Use Control-C to stop this server and shut down all kernels
(twice to skip confirmation).
```

Simply copy the URL in the browser (e.g., http://172.17.0.2:8888/) to open the Jupyter Notebook UI and type ‘ophidia’ as password when prompted.