

## Executing a BIAFLOWS workflow without BIAFLOWS server

It is possible to run a workflow image independently of any BIAFLOWS server. This can for instance be useful to process a local folder of images. For this, first install [Docker](#) on the target workstation, then:

- Get the docker image of the workflow from Dockerhub:  
`docker pull {remote_image}`  
  
Or, alternatively, build workflow Docker image from source (GitHub repository)  
Inside repository folder: `docker build -t {local_image} .`
- Prepare an empty folder {DATA\_PATH} with a subfolder **/data** and subfolders:
  - **{DATA\_PATH}/data/in**: add input images to this folder\*
  - **{DATA\_PATH}/data/out**: workflow results are exported to this folder
  - **{DATA\_PATH}/data/gt**: leave empty

\* Images should be 8/16-bit TIFF (2D) or 8/16-bit single file OME-TIFF (C,Z,T).

The string **\_lbl** is forbidden in image name since it is used to identify ground truth annotation images.

- Run the workflow with the local flag:

```
docker run -v {DATA_PATH}/data:/data -it {image_name}  
{WORKFLOW_PARAMETERS} --infolder /data/in --gtfolder /data/gt --  
outfolder /data/out --local
```

### **Notes:**

`--local (-l)`: do not download nor upload any content from / to BIAFLOWS. The images (input and ground truth) are read from specified folders. Metrics are optionally displayed to standard output.

For a more fine-grained control over BIAFLOWS interactions:

`--no_download (-nd)`: images and ground truth are not downloaded from BIAFLOWS  
`--no_annotations_upload (-nau)`: annotations are not uploaded to BIAFLOWS  
`--no_metrics_computation (-nmc)`: metrics are not computed  
`--no_metrics_upload (-nmu)`: metrics are not uploaded to BIAFLOWS.