Section 2. „Integrating Containers with Host System"

Links:

https://github.com/pythonincontainers/myfirst

http://flask.pocoo.org/

Commands:

```
$ git clone https://github.com/pythonincontainers/myfirst

$ cd myfirst

$ atom .

$ docker create -it --name mypython python

$ docker cp --help

$ docker cp myfirst.py mypython:/tmp/myfirst.py

$ docker start -i mypython
>>>import os
>>>os.listdir('/tmp')
>>>exec(open('/tmp/myfirst.py').read())

$ docker cp myfirst.py mypython:/tmp/myfirst.v2.py
>>>exec(open('/tmp/myfirst.v2.py').read())
>>>exit()

$ docker run -it -v ${PWD}:/app python
>>>exec(open('/app/myfirst.py').read())
>>>exit()

$ docker run -it -v ${PWD}:/app --name myfirst python python
/app/myfirst.py
```

```
$ docker start -i myfirst

$ docker run -it --name mysecond -v ${PWD}:/app python python
/app/mysecond.py

$ docker run -it --name mypython -v ${PWD}:/app python /bin/bash

# python mysecond.py

# pip install Flask

# export FLASK_DEBUG=1

# export FLASK_APP=mythird.py

# flask run --host=0

# exit

$ docker run -it --name mypython -v ${PWD}:/app -p 5001:5000
python /bin/bash

# pip install Flask

# export FLASK_DEBUG=1

# export FLASK_APP=mythird.py

# flask run --host=0

# exit
```