

4. Übung zur Vorlesung „Distributed Systems“

Lab 1

Abgabe am Donnerstag, 07. November 2019 - 14:15

Please find here the [labs presentation](#), the [lab 1 instructions](#), as well as additional information on [REST APIs](#).

Please find the code skeleton [here](#).

To setup the machine for the skeleton, please install pip (*sudo apt install python-pip*), as well as the Bottle and Requests packages (*pip install bottle requests*). After that, you should be able to run our skeleton script.

The skeleton is composed of two important files: *start_topology.py*, and *server/server.py*. *start_topology.py* is a mininet script, it starts a network with 8 servers. At startup, this script also calls *server/server.py* from all 8 servers. *server/server.py* is a (Bottle) web server. It uses a template present in *server/templates/*. This is the file you should modify to implement your distributed blackboard.

To start, go to *code/skeleton/*, and run *sudo python start_topology.py*. If everything goes nicely, you should see 8 terminals popping up, each running one web server. If not, you might have a problem with mininet. You can try to use *sudo mn -c* to clean up mininet, and start *start_topology.py* again.

Then, simply start firefox, and connect to 10.1.0.1 (ou 10.1.0.2, ..., 10.1.0.8).

We are available during the exercise sessions and by mail if you have any questions.

(29 Oct) The *start_topology.py* script has been updated to patch a bug when a network could not be created. In case mininet complains about some file already present, you can use *sudo mn -c* to clean its state.

Problem 1 - Lab 1 submission

10 points

Upload a zip file with code and your presentation (pptx, pdf, ...). Please make sure that your code is complete, i.e., is runnable and includes all files including html etc.