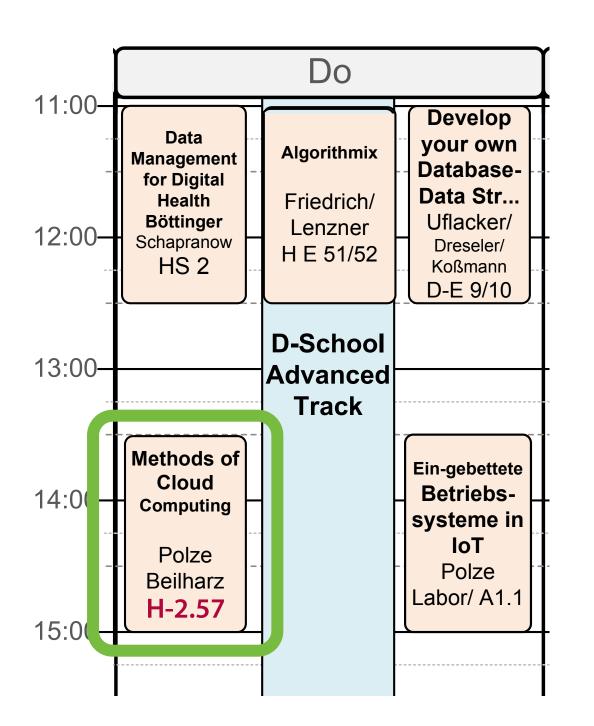


Assignment 1

Sven Köhler Hasso Plattner Institute 2018-11-15



15.11.

06.12.

10.01.

31.01.

> 50 % of points per assignment for exam submission

Organization

Each assignment is due 2-3 weeks later.

They involve long-running experiments and registration processes so

START EARLY

https://www.dcl.hpi.uni-potsdam.de/teaching/mocc/#assignments

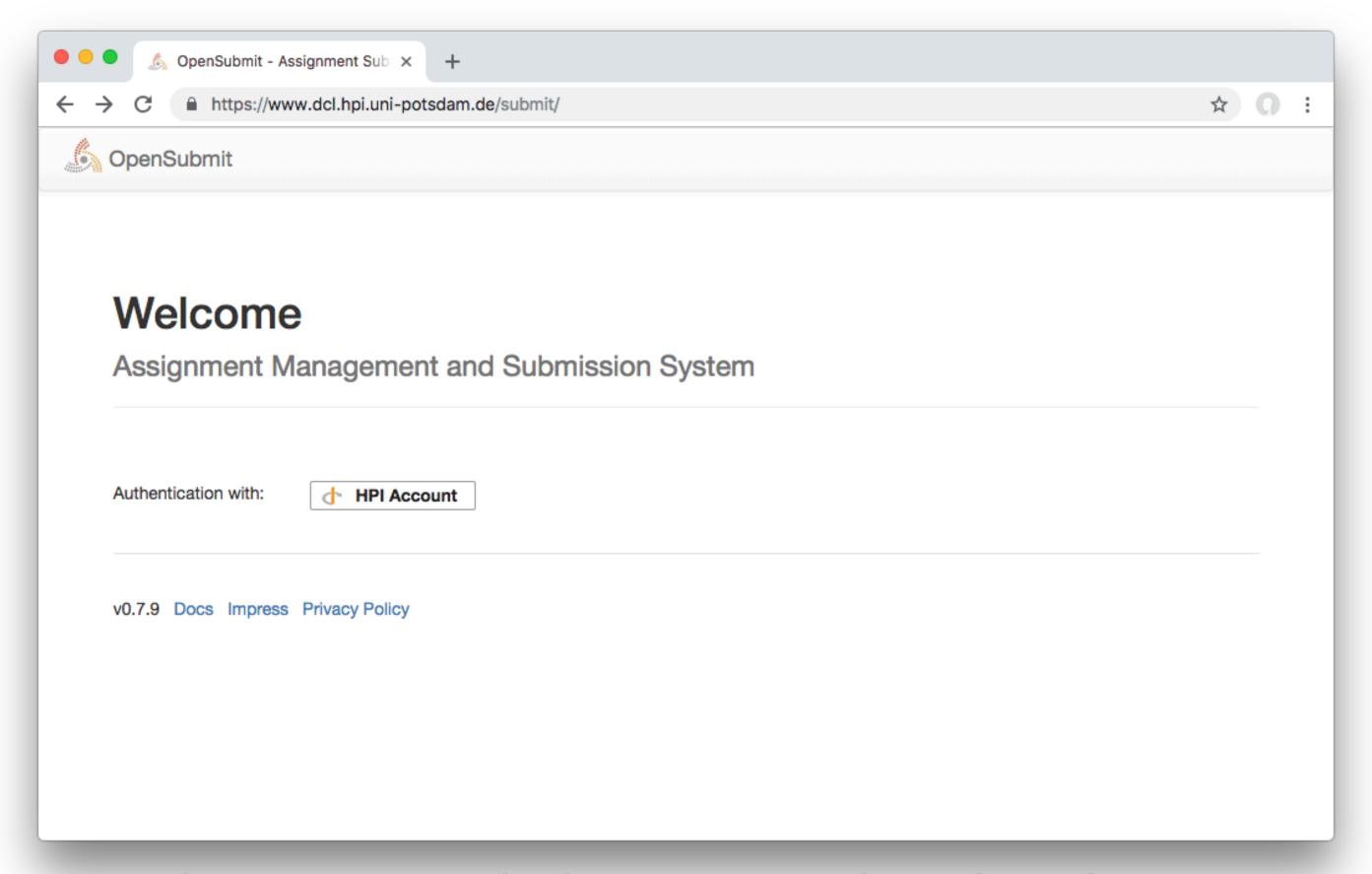
task 1:

FORM GROUPS

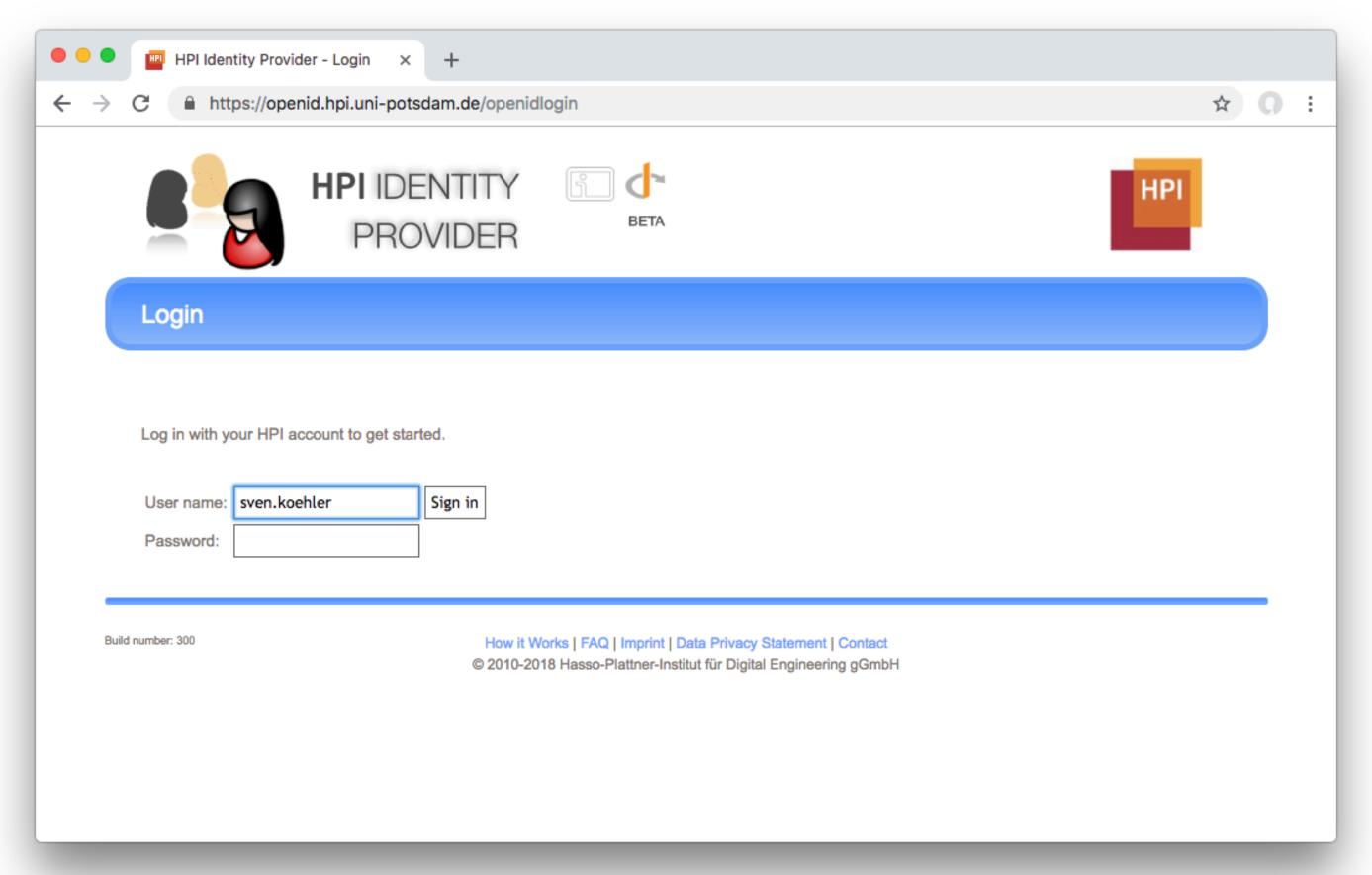
of 2-3 students

level your experience, own at least one credit card.

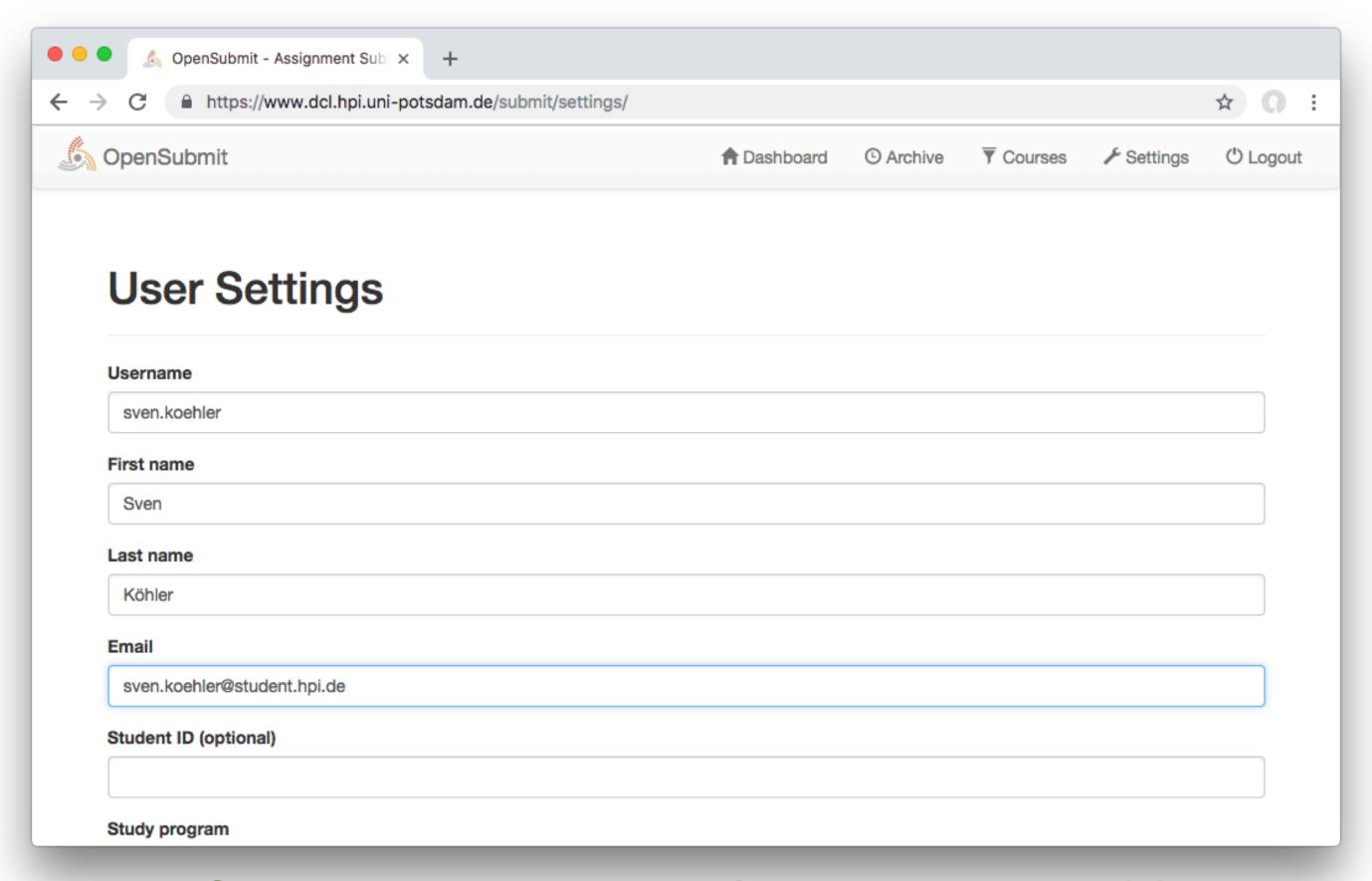




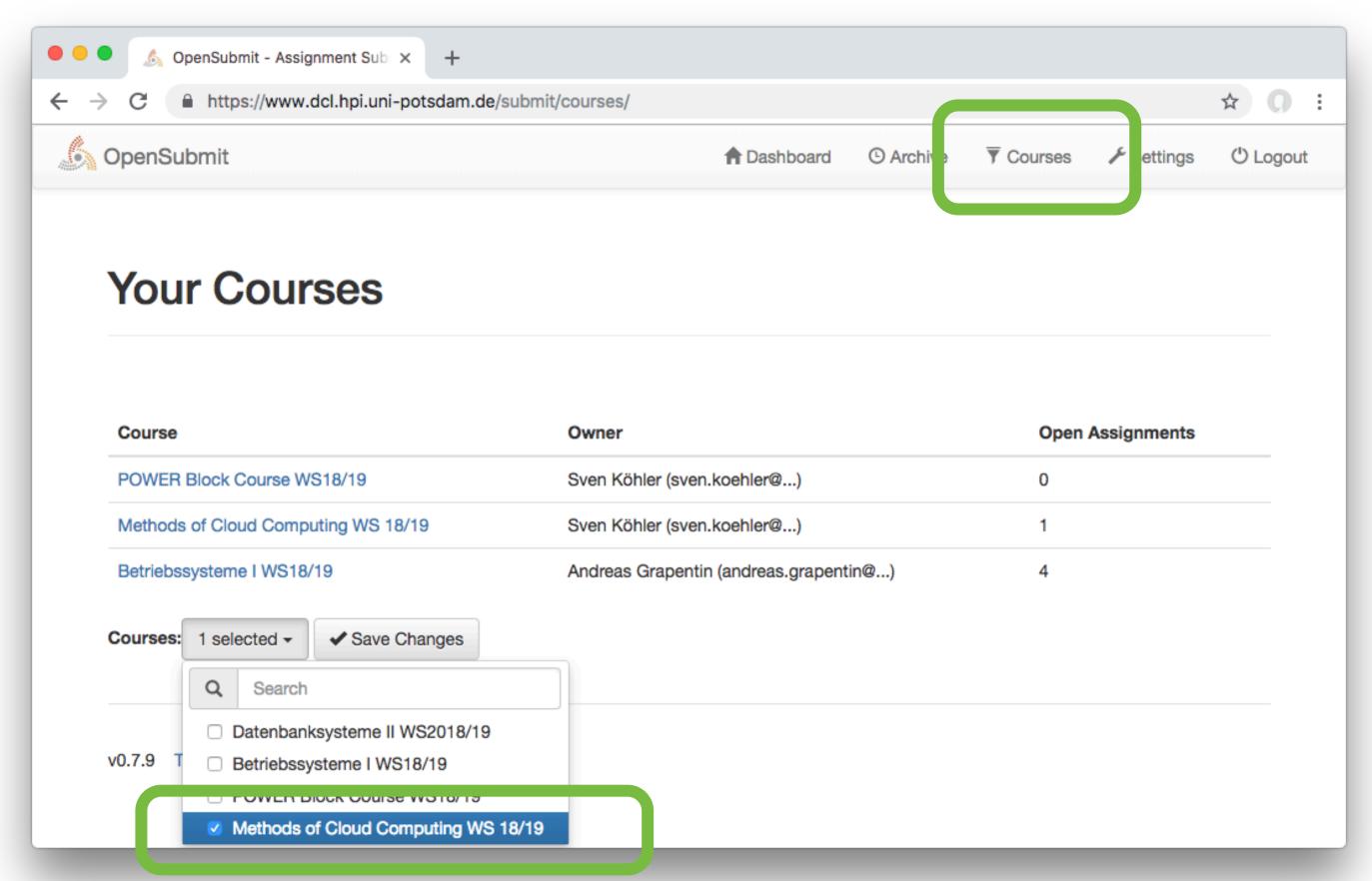
https://www.dcl.hpi.uni-potsdam.de/submit



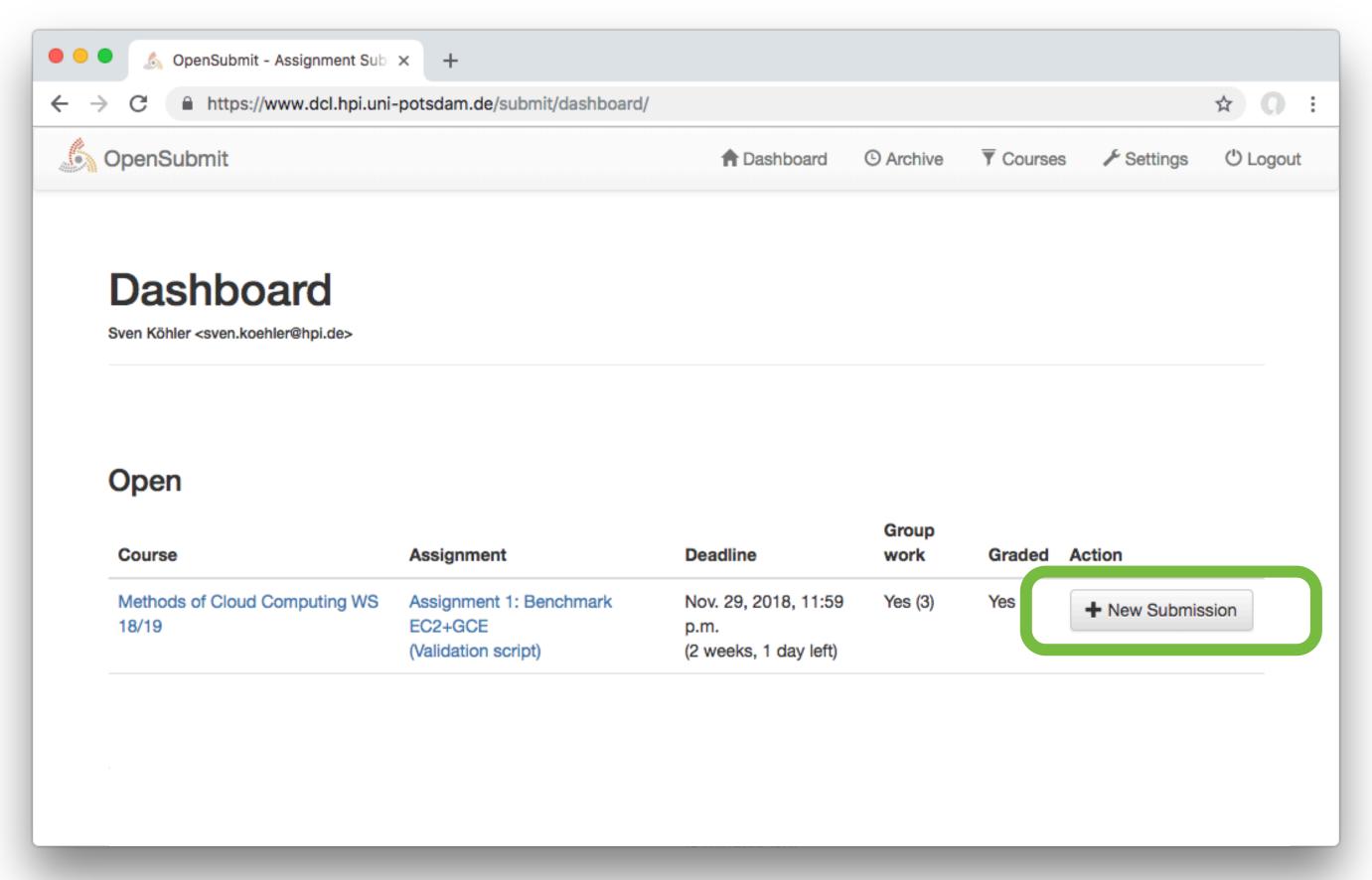
Log-In using your HPI-credentials.



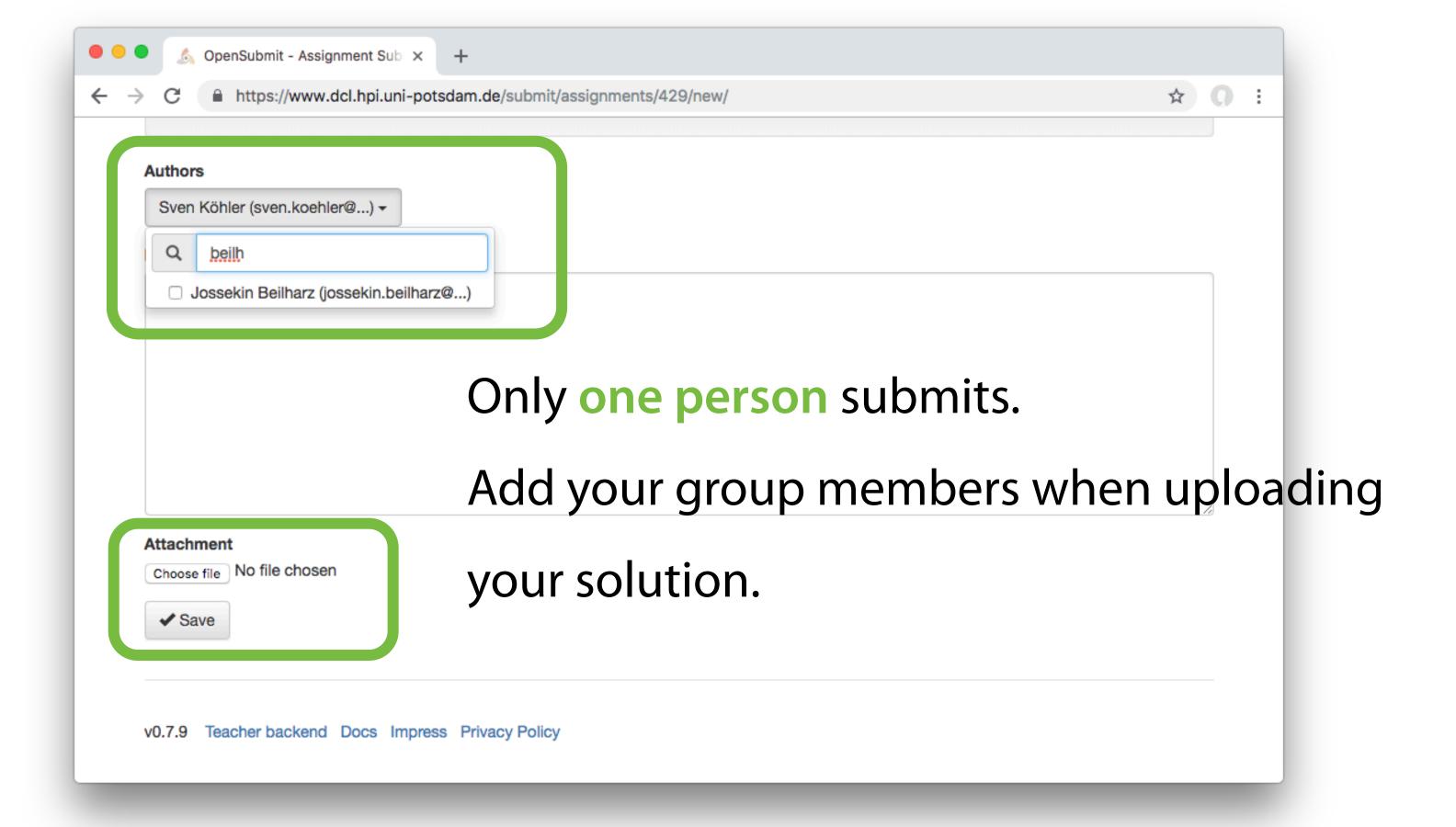
Use firstname.lastname and your HPI mail address!



You can filter to only see MOCC assignments



Create new submissions from dashboard







Google Compute Engine

Assignment

In this assignment you will:

- Set up VMs in Amazon EC2 and Google CE
- Run 48 hours of benchmarks (CPU/memory/disks)
- Document your steps
- Evaluate your measurements

You can find help:

- On the assignment sheets
- In the linked online resources of Amazon and Google
- Stack Overflow/Google
- By asking your fellow students

due: **29.11.2019**



pay-as-you-go: per cpu hour, submitted data, issued requests

Recommended: Amazon AWS Educate Starter

- You receive a small number of credits to use EC2 virtual machines
- Limited feature set, but enough to solve assignments
- (only us-east-1c region)

Alternative: full Amazon AWS Educate account

- You receive 100\$ AWS credits for FULL AWS usage (more than enough to solve all assignments)
- Requires credit card!
 It will not be charged if you follow our instructions. You are responsible!

Always shut down your VMs when you are done!
You can share an Amazon AWS account using IAM
https://aws.amazon.com/iam/

Google Cloud: Education Grants

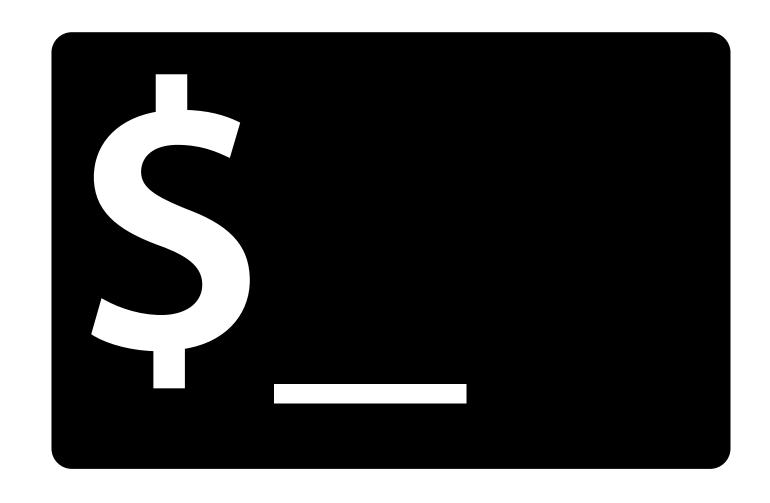
We provide **each person** with 50\$ coupons for education purpose. Should be enough for all assignments. But **do not cash in** all coupons in your group **at once**, in case you mess up.

Most newly created accounts receive an additional 300\$ credits. Google Cloud requires a credit card for ID purpose (not charged).

https://www.dcl.hpi.uni-potsdam.de/teaching/mocc/assignments/gcp-coupon

SHUT DOWN YOUR VMS

(if you don't need them to prevent burning your credits)



Setup your VMs using CLI tools

aws gcloud

Document your entered commands, mask out keys/ids/etc.

Tips: script, awk, sed, cut, cron



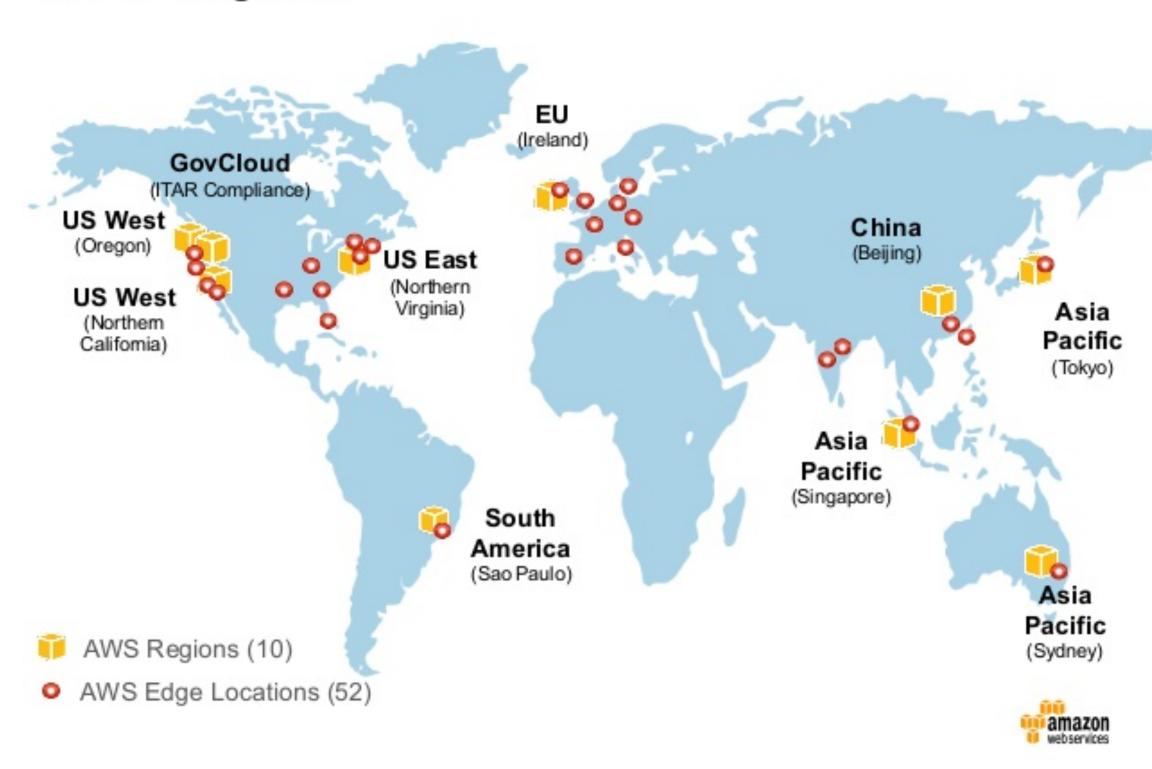
https://xkcd.com/293/

Docs linked in the assignment

Pain story:

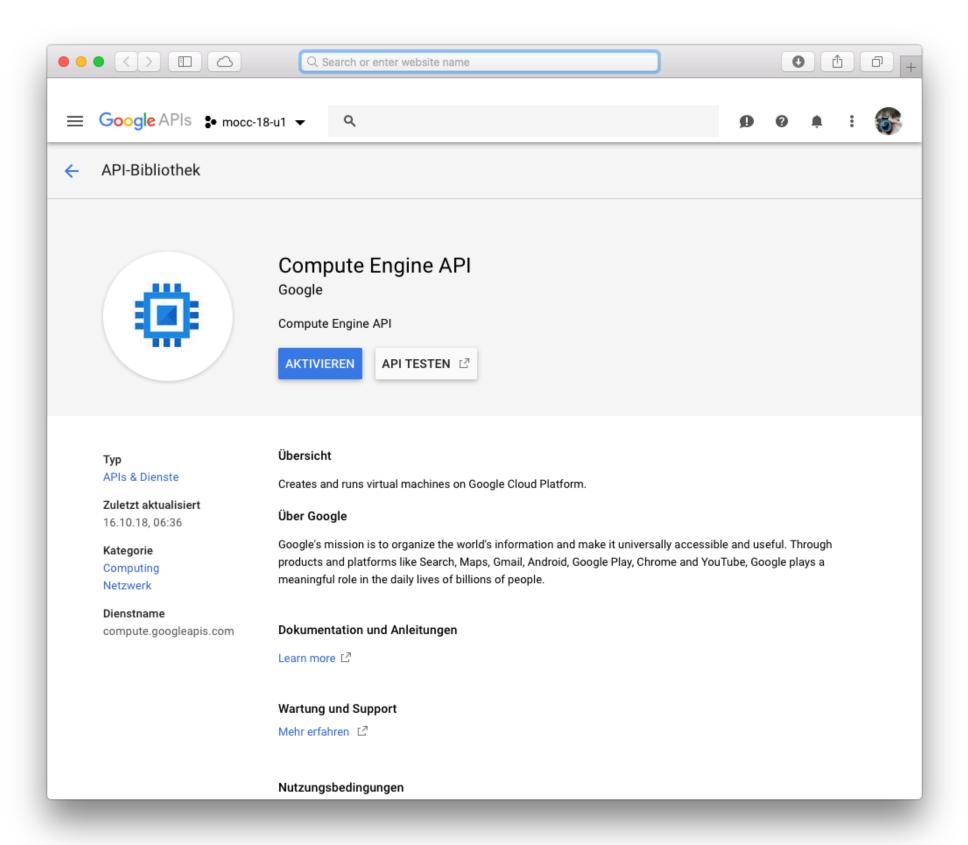
AWS Educate Starter is us-east-1c only.

AWS Regions



Pain story:

You need to explicitly activate Google Compute Engine in the web interface first.





open questions

SHUT DOWN YOUR VMS

