MoCC

Assignment 1

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Hasso Plattner Institute

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Do			
Algorithmix Friedrich/ Göbel H E.51	**Big Data Systeme** Rabl HS 2	**Advanced Visual Media Enhancement** Trapp, Semmo, Pasewaldt, Shekhar A 2.1	**Software Analysieren,Testen und Verifizieren** Lambers A-1.1

D-School Advanced Track

Process Mining
Weske/ Leopold/ Pufahl
A-1.1

Programming Experience

Hirschfeld Lincke
H E.52

Methods of Cloud Computing
Polze

Beilharz

HS 2

> 50 % of points per assignment
for exam submission

Organization

1

Each assignment is due 2-3 weeks later.

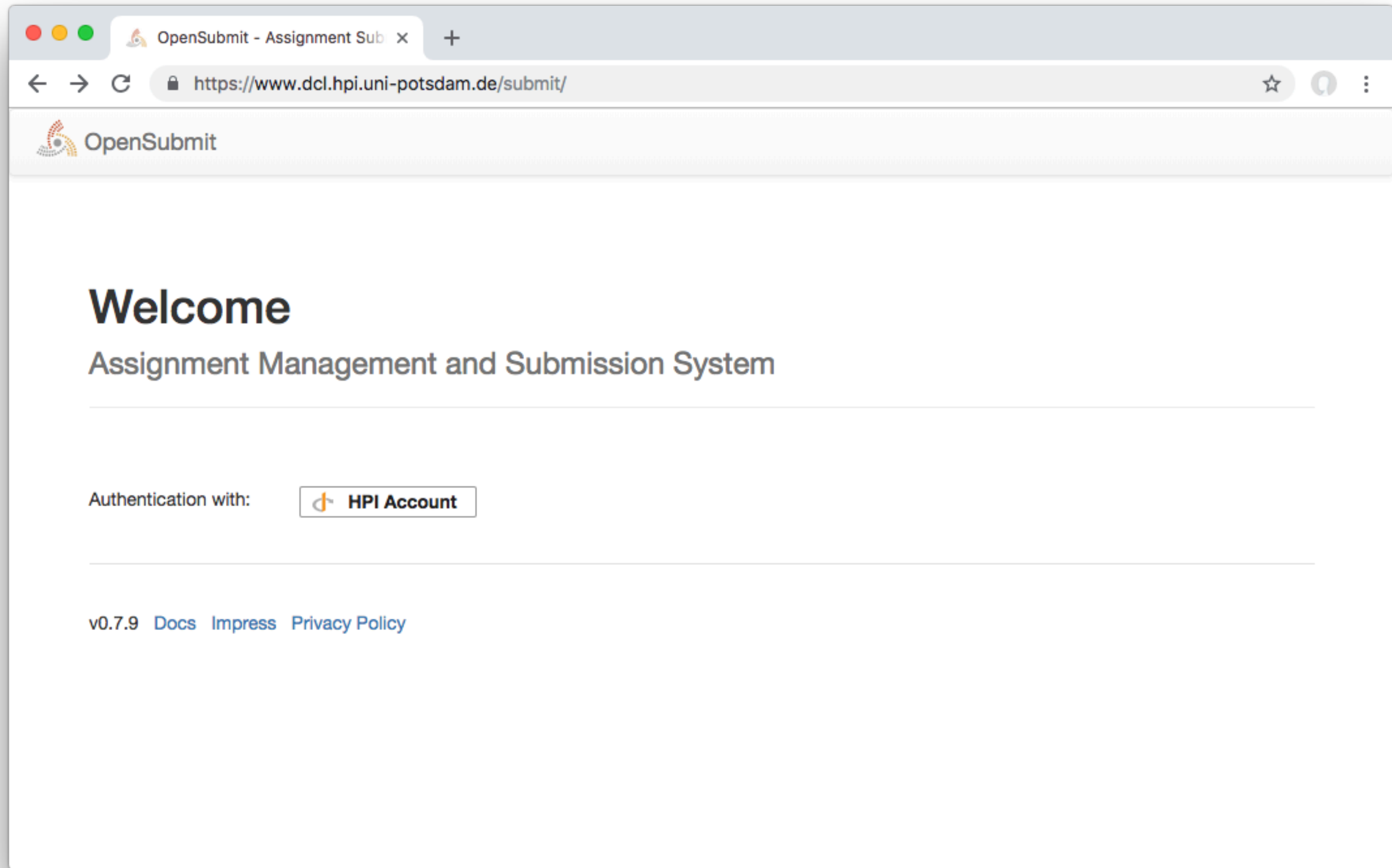They involve long-running experiments and registration processes so

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.

Submission System

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

Only **one person** submits.

Add your group members when uploading

your solution.

EC2
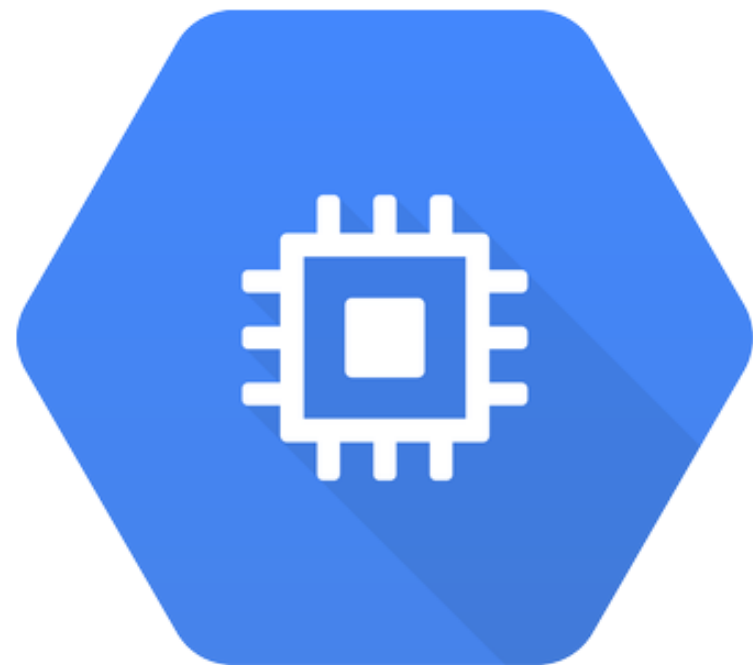
Google Compute Engine

Assignment 3

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: **21.11.2019**

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 may require 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`

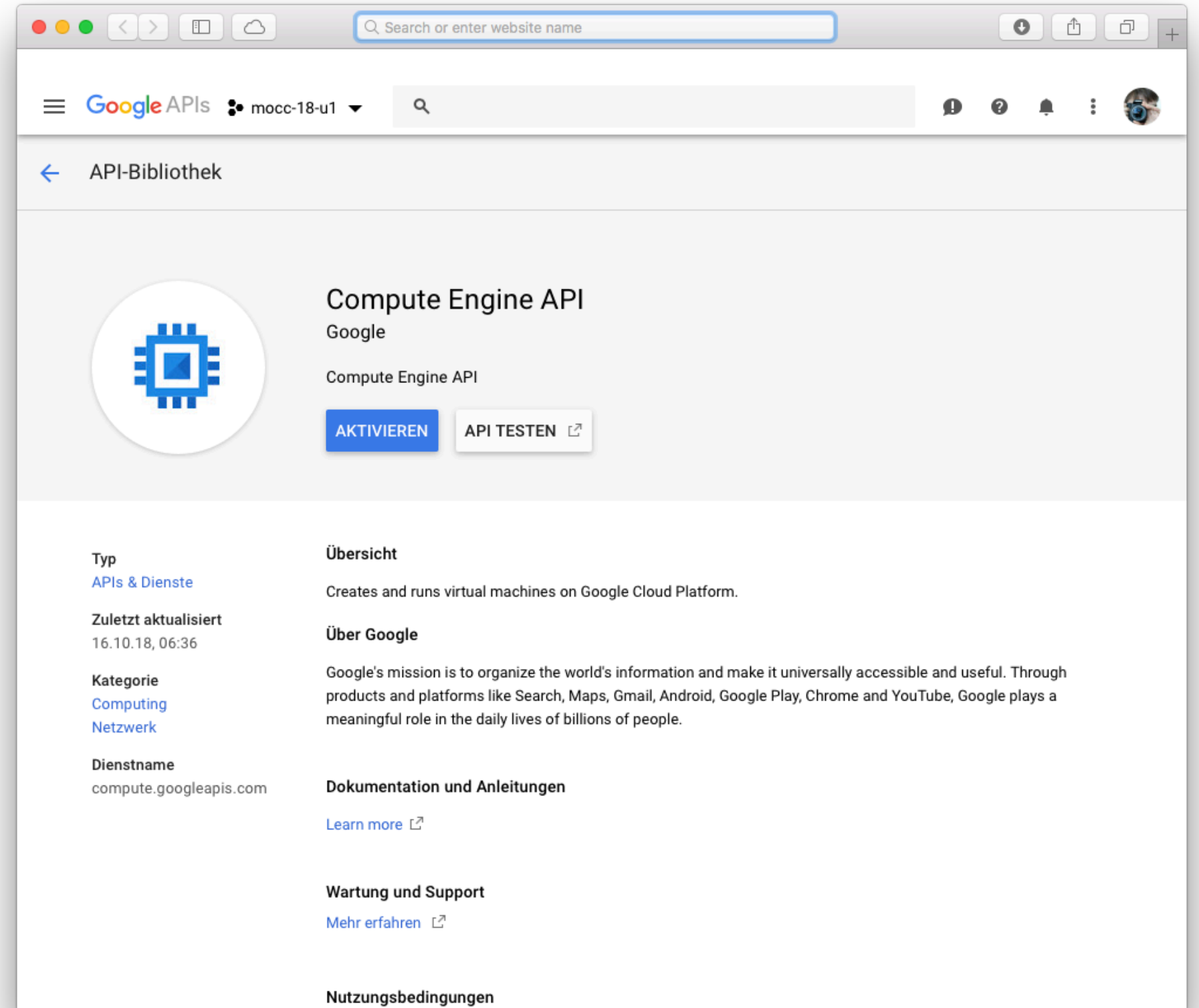Docs linked in the assignment

https://xkcd.com/293/

Pain story:

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

Pain story:

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

?

open questions

SHUT DOWN YOUR VMS

end