How to get a voucher for Azure.. (I)

• Create a gitlab repository on gitlab.ethz.ch (not gitlab.vis.ethz.ch)
• Name it “asl-fall18-project” and give us access to it
How to get a voucher for Azure.. (II)

- Have a Microsoft account: One that you can log in to Azure.
- Fill out this web form by 30.09.2018: http://tiny.cc/vyzqyy
- After that we will create a lab in the Azure Education Hub and assign credit to you.

Azure Education Hub: https://aka.ms/startEdu
Azure Tutorial

1. Accept the Azure invitation for the lab, sent to your e-mail.
2. Use the template script provided to create VMs.
3. SSH into a server VM and install memcached and memtier.
How to get a subscription (I)

Go to Education Hub: https://aka.ms/startEdu
You should see an invite to a new lab.
How to get a subscription (II)

After the lab is setup switch to the “Courses” tab. You should see a class.
How to get a subscription (III)

Once you click on the class, you will see the lab you assigned to and the amount of credit assigned and consumed:
How to get a subscription (IV)

1. Go to
   https://portal.azure.com/#blade/Microsoft_Azure_Billing/ModernBillingMenuBlade/Subscriptions
2. Under subscriptions, check if the lab is there.
3. You will use this subscription when deploying VMs.
Use the template to create VMs

1. Launch Template Deployment on Azure.
2. Name for the VMs, network interface, vnet already given.
3. Generate a public SSH key and copy it to the template.
4. Put in your nethz (it will be used as unique DNS name and admin username).
5. Give an admin password.
Use the template to create VMs (I)

1.
Use the template to create VMs (II)
Use the template to create VMs (III)

4. Copy&Paste the provided template
5. Use the template to create VMs (IV)

Select subscription of the lab (might be called Lab 0 <your name>)
Create a resource group
Give your username
Agree to the “Terms & Conditions” and click “Purchase”
Use the template to create VMs (V)
Don’t forget to stop the VMs, when not running experiments!!!
Connecting to the VM

DNS name for connecting to the VM

klaarsteformeurope1.westeurope.cloudapp.azure.com
SSH into a server VM

- sudo apt-get install memcached git unzip ant openjdk-8-jdk
- wget https://github.com/RedisLabs/memtier_benchmark/archive/master.zip
- unzip master.zip
- cd memtier_benchmark-master
- sudo apt-get install build-essential autoconf automake libpcre3-dev libevent-dev pkg-config zlib1g-dev
- autoreconf -ivf
- ./configure
- make
- sudo service memcached stop !!!

!! Starts memcached on port 11212 !!

- memcached -t 1 -p 11211

!! Starts memcached on port 11212 !!

- ./memtier_benchmark --server=10.0.0.11 --port=11211 --protocol=memcache_text --clients=1 --threads=1 --test-time=2 --ratio=0.1 --expiry-range=9999-10000 --key-maximum=1000 --hide-histogram

Use Private IP address