# Cloud Computing SS2017 - Assignment 1

**Group 32**

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## 1. Cloud Benchmark

**Install Rally:**

$wget -q -O- https://raw.githubusercontent.com/openstack/rally/master/install\_rally.sh | bash

**Set up Rally database:**

$rally-manage db recreate

**Registering an OpenStack deployment in Rally**

$rally deployment create --fromenv --name=existing

**Check the deployment**

$rally deployment check

**To start a benchmark task**

$rally task start boot-and-list.json

**Report generation**

rally task report --out=report1.html –open

This will produce an HTML page with the overview of all the scenarios that you've included into the last benchmark task completed in Rally

## 2. Introducing Heat

**General intro:**

https://docs.openstack.org/developer/heat/template\_guide/index.html

**To install HEAT CLI:**

$sudo pip install python-heatclient

$To check installation:

$openstack stack list

**Instantiate a Heat stack using the server.yml template**

$openstack stack create --template server.yml --parameter "name=VM2;key\_pair=stefan-key;flavor=610f44b0-d25a-44bc-a6b1-8b22e68675e5;image=ubuntu-16.04;network=cc17-net;zone=Cloud Computing 2017;security\_groups=default" MYSTACK

$openstack stack list

$openstack stack show MYSTACK

**Test the created VM by assigning a floating IP to it, connecting to it via SSH and testing its internet connectivity.**

$openstack server list

$openstack floating ip list

$openstack server add floating ip VM2 10.200.1.164

$ssh -i cloud.key ubuntu@10.200.1.164

$ping audi.de

$exit

**Delete the instantiated stack and check that the VM has been deleted**.

$openstack stack delete MYSTACK

$openstack stack list

## 3. Advanced Heat Templates

## 4. Appendix