

Eidgenössische Technische Hochschule Zürich Swiss Federal Institute of Technology Zurich  $Spring\ Term\ 2014$ 

## Operating Systems and Networks Assignment 11

Assigned on: 9th May 2014 Due by: 15th May 2014

## Virtual Machines

- a) List all machine resources that must be virtualized and discuss why. List some uses of virtual machines.
- b) What is the difference between Native (type 1) and Hosted (type 2) virtual machines? Which might be more suitable for a data center (cloud provider) and which might be more suitable for your laptop?
- c) Discuss the differences between and the (dis)advantages of full- and para-virtualization.
- d) Discuss the functionality of ballooning. What problem is it trying to solve and how does it solve it?