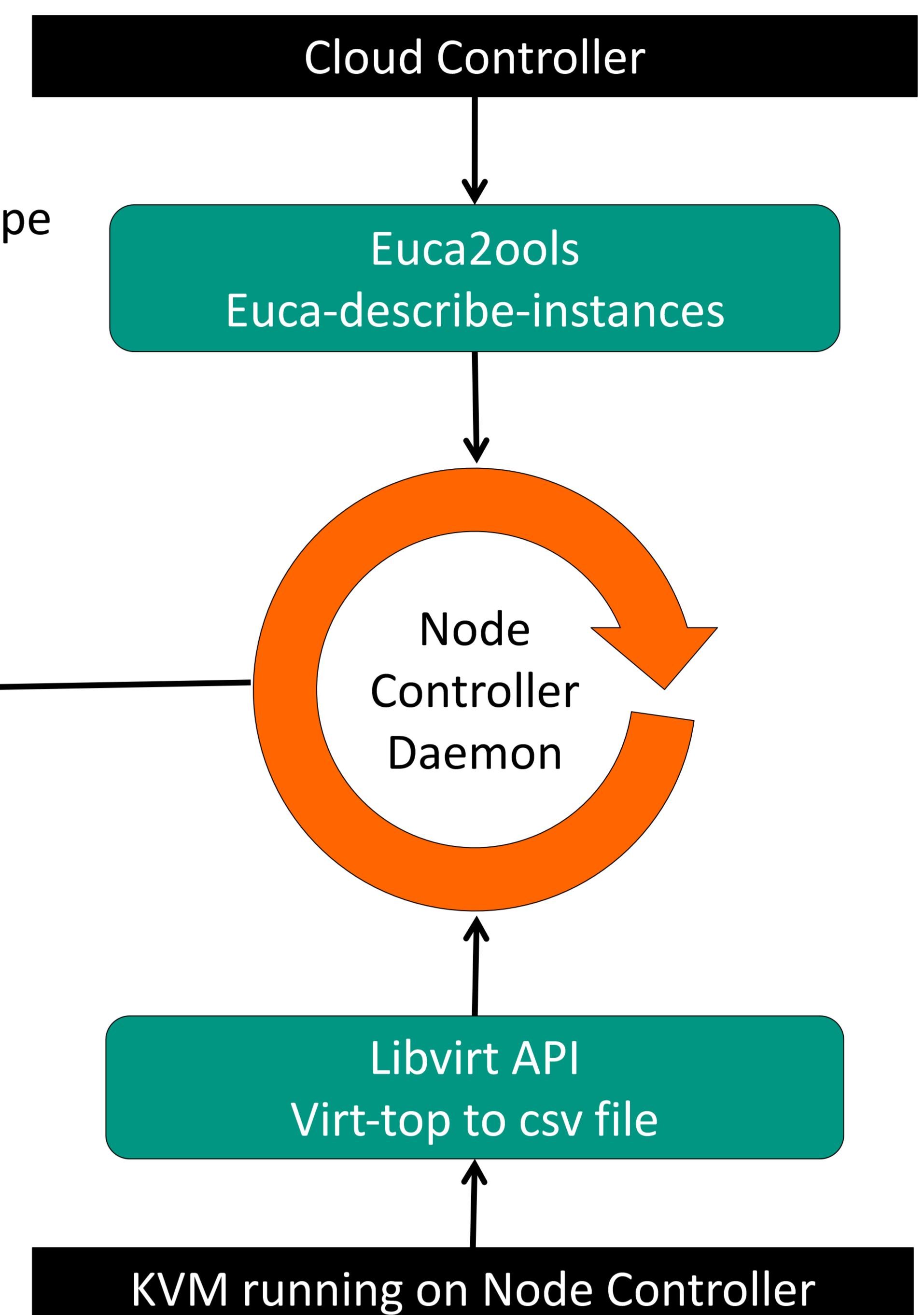
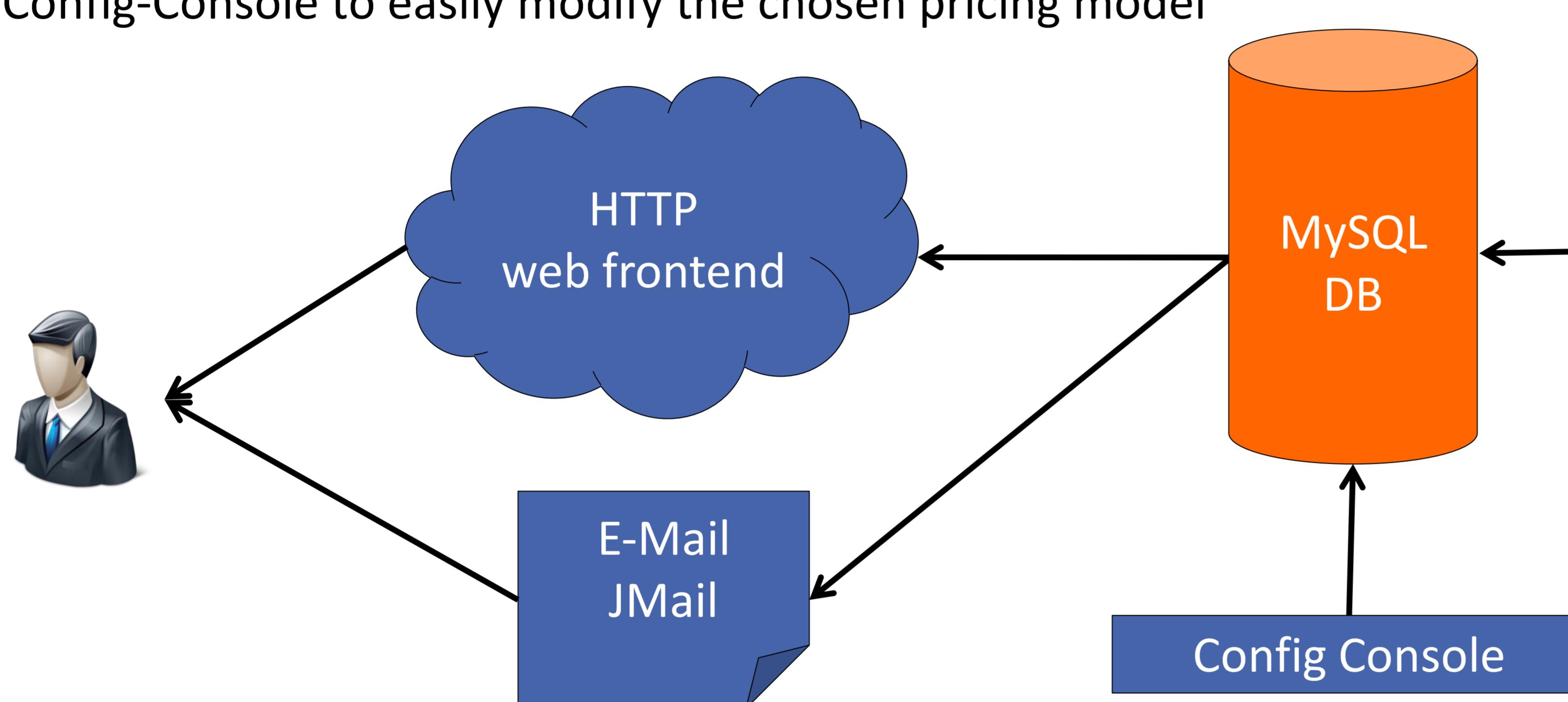


# Accounting-Solution for the Private Cloud with Eucalyptus

Karsten Knese, Christian Baun

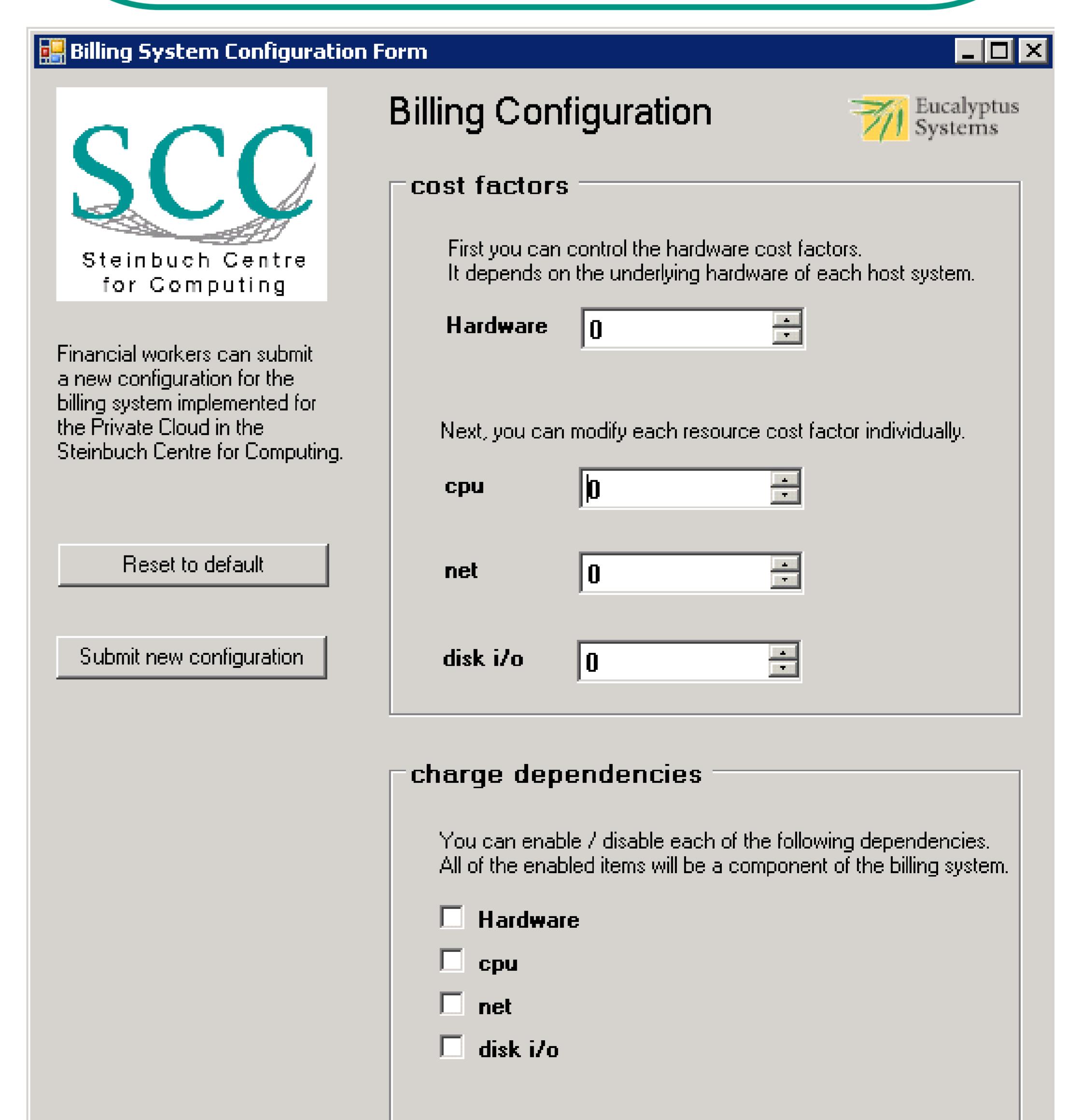
## System setup for an accounting solution based on Euca2ools and Virt-Top

- Daemon running on each Node Controller (NC) inside the Eucalyptus cluster
- Daemon collects resource data of each instance
- Matching those dates with information of Euca2ools like owner and instance-type
- Saving all data with current timestamp into database
- Providing edited data to each owner ether by web frontend or E-Mail
- Config-Console to easily modify the chosen pricing model



- libvirt provides single point of entry for virtualization software
- Single tool based on libvirt can control multiple hypervisor
- libvirt API supports multiple virtualization solutions:
  - KVM
  - XEN
  - VirtualBox
  - VMware ESX
- Eucalyptus uses libvirt, installed on each NC, to create instances
- Virt-Top monitors the resources of each VM created by libvirt
- Virt-Top collects resource data of each Eucalyptus instance
- Accounting solution is independent from virtualization solution

- Configuration Console for modifying the pricing model in the categories
  - Hardware costs
  - CPU
  - Network traffic
  - Disk I/O
- Flexible pricing model for each category individually as part of the billing



Aktuelle Belastung: 0

**Übersicht Ihrer aktuell verfügbaren Instanzen:**

id	netRec	netTrans	diskRead	diskWritten	cpuTime	cpuPercentage
i-480D0707	0	0	0	0	700000000	0,011667
i-4CCB0940	23023	630	0	10	1200000000	0,023333

**Übersicht der nicht zugeordneten Instanzen:**

user	id	netRec	netTrans	diskRead	diskWritten	cpuTime	cpuPercentage
UNKNOWN	None-391	23653	0	0	0	2200000000	0,043333