# TUC Cloud

**Skill Transfer**

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- Hardware
  - master node
  - compute/cloud nodes

- Network
  - diagram
  - network address ranges

- Software
  - Red Hat Enterprise Linux 6.3

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1x master node - SA2260A308R

- 2x Intel Xeon CPU E5-2620 @ 2.00GHz (12 cores)
- 8x 8 GB DDR3 registered DIMMs @ 1333 MHz = 64 GB
- LSI MegaRAID 9261-8i RAID controller
  - /dev/sda: ~1 TB
  - /dev/sdb: 7 TB
  - 6x Seagate ES 2 TB disks in a single RAID set with two h/w partitions
- Intel X520-DA2 Dual Port 10 GbE NIC
- 2x GbE NICs (onboard)
- IPMI (onboard)
  - running f/w 1.87 due to reporting and disk issues with former releases

20x compute/cloud nodes in 5x SH2860A312R
- 2x Intel Xeon CPU E5-2660 @ 2.20GHz (16 cores)
- 8x 8 GB DDR3 DDR3 registered DIMMs @ 1600 MHz = 64 GB
- Single Seagate ES 2 TB disk
- 2x GbE NICs (onboard)
- IPMI (onboard)
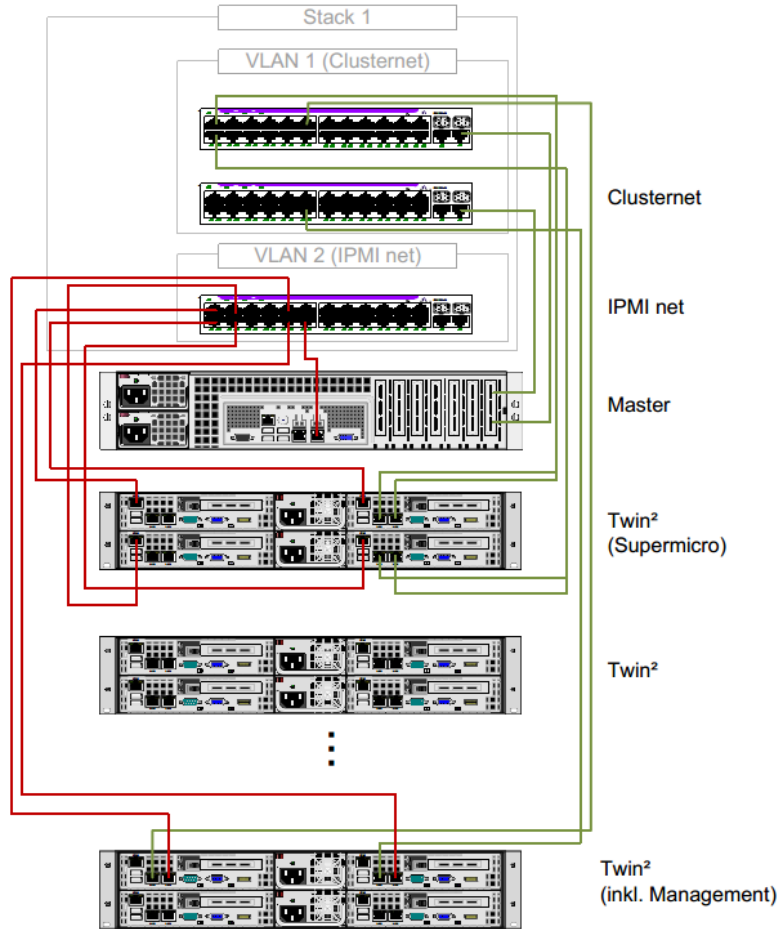  - running f/w 1.87 due to reporting and disk issues with former releases

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4x compute/cloud nodes in 1x SH2869A312R
- 2x Intel Xeon CPU E5-2670 @ 2.60GHz (16 cores)
- 16x 16 GB DDR3 DDR3 registered DIMMs @ 1600 MHz = 256 GB
- Single Seagate ES 2 TB disk
- 2x GbE NICs (onboard)
- IPMI (onboard)

# TUC CLOUD | SKILL TRANSFER
## NETWORK

- Compute and deployment net:
  - cloud001 - cloud024   10.0.0.0/16 (eth0)
  - eth1 needed for correct KVM host configuration (IP net ?)

- Management net:
  - cloud001-ipmi - cloud024-ipmi   10.0.100.0/16 (dedicated IPMI port)
  - login: ADMIN / password: ***

- Master:
  - claudia.rz.tu-clausthal.de   10.0.0.253 (eth0)
  - claudia.rz.tu-clausthal.de   10.0.0.254 (→ bond0.1101) possible?

- Installation of Red Hat Enterprise Linux 6.3 on /dev/sda3
    - login: root / password: ***
    - disabled SE Linux in order to fulfill Platform Cluster Manager Advanced Edition installation settings
    - installed packages according to PCM-AE installation guide

- Additionally the following online resources were added manually:
    - http://fedoraproject.org/wiki/EPEL

- Software sources not available through the repositories are saved in /install/software/rpm and /install/software/src

- Copies of all OS to be used are located at /install/iso as ISO disk images

- Questions to be discussed:
    - connection to deployed system/cluster/VM for Linux and Windows
    - use of SSL as standard protocol to the web portal
    - depth of LDAP integration (web portal / systems / templates)
    - usage of 20 GbE LACP trunk ($\rightarrow$ bond0.1101) for deployment network
    - Deployment of CentOS systems/clusters/VMs due to licencing reasons
    - Wiki access for ongoing documentation