

# Ganeti at ACC



Umeå University

Academic Computer Club

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# Overview

- Hardware
- Guests
- OS management
- Experience
- Wishlist



# Hardware

- As almost everything at ACC, running on old donated hardware:
  - 4x ProLiant DL180 G6
  - 96G RAM
  - 4x 2TB RAID10 storage
  - 10G CX4 internal networking
  - 4x GigE external networks
  - Lots of spare parts
- Looking forward to seeing where the next donations take us, hardware-wise
  - Infiniband for internal network might be likely



# Guests

- Multiuser shell machines for our users
  - Mail, IRC screens, compiling software, cron, etc
- ACC services
  - XMPP, CUPS, mail, GOGS
  - Temporary authoritative DNS server for DNSSEC support
- Public services
  - IRC servers: GIMPNet, Freenode, OFTC
  - Mastodon for @umu.se users
  - MUD server: DUMII



# OS management

- PXE OS definition
- FAI for installing OS on guests and hardware
- When booted network, FAI will install an OS
  - `gnt-instance add -o pxe -B memory=1G -t drbd -s 30G --net 0:mac=aa:00:00:3e:e7:81 gnttest1`
- Reinstall is same as install
  - Wipes first meg of disk0 to keep lvm etc from detecting stuff
  - Installes PXE virtio bootloader



# Experience

- **Stable & Boring**
  - Which is good since effort is very limited
  - System running, and guests keep running
- **Good DRBD integration is a great feature**
  - Simple identical nodes with good redundancy
  - Not eager to have to run CEPH/Gluster/foo
  - Easy to scale up as needed
- **Simplified the process of deploying a new service**
  - Used to be a couple of weeks worth of hardware work
  - And consolidated a bunch of hardware = less cooling load



# Wishlist

- Regular releases
- DRBD fast resync speed by default
  - Where should this and other stuff be documented otherwise? There is a gazillion deployment-specific wiki pages out there, but no common place?
- Smooth upgrade path
- Excellent Ubuntu packaging and all versions in PPA
- Greatest common subset of CPU-flags?





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# Questions?