

# NT1 Central Services

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# Overview

- New stuff
- Changes
- Issues
- Future



# New stuff

- We have taken new headnodes into production
  - 4 instead of 3 ganeti nodes, due to large disk VMs
  - More of everything
  - Enough SSDs to have symmetric setup without HDDs
- Niklas hired as endit/tape expert on 30% this year
  - The perl daemons need some refactoring after years of small fixes and additions
    - In order to e.g. get better scheduling for files that span tapes
  - Also generic tape expert as a resource to other sites
- Lars taking over the developer parts of Maiken



# Changes

- Grafana instead of Ganglia draws ever closer
  - Are we there yet?
- The new setup with NordForsk has a signed Memorandum of Understanding
  - We hope to be able to do 2-year contracts this fall
  - And recruit, we're 0.9 FTE short on operations staff (1.2 if we count endit expert as temporary)
- What should be our top priority for recruiting?
  - Not pure software development, funding agencies insist on keeping this separate and strictly limited



# Issues

- Tried to turn off IPv4 over LHCOPN
  - Intent: Still keep it on for LHCONE and General Purpose
  - NORDUNet interpreted this as turning off IPv4 to CERN
  - Storage transfers fine, job control not (both ALICE and ATLAS)
- ARC issues affecting our production
  - Memory growth issue leading to OoM, fixed now in nightly(?)
  - Data staging slowness
- Tape pools on dCache forgetting to free space when restore requests get canceled and retried



# Future

- Recruiting to make rate of change faster and/or level of service better
- Getting into a higher pace of ENDIT and dCache development
- Trying to get some project funding for ARC devel
- IPv4 phaseout planned through 2027
  - “Only” need us to follow through
- Will it be possible to purchase new hardware?





Questions?

