

New Hardware 2019

NDGF Manager
Mattias Wadenstein
<maswan@ndgf.org>

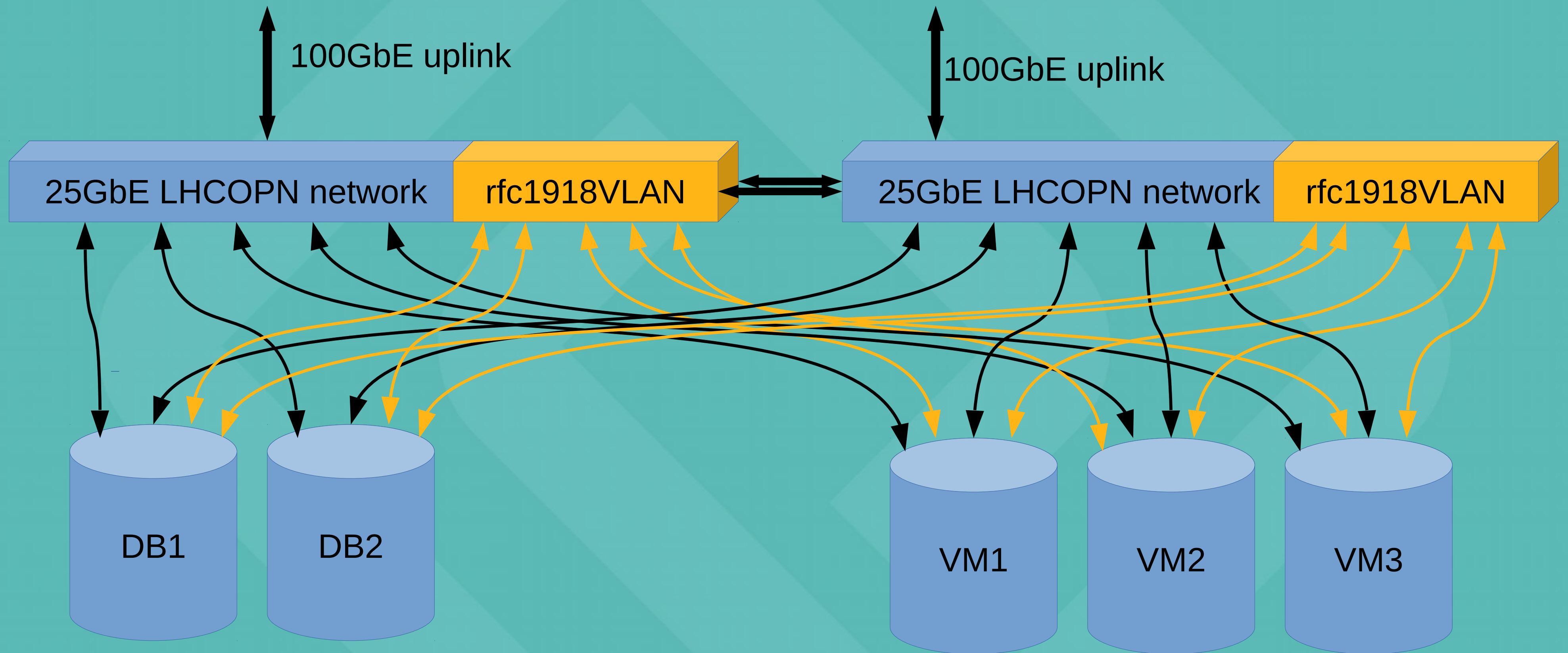
2019-10-21
NDGF All Hands
Bern, Switzerland

Overview

- Design
- Reality
- Plans



New headnodes

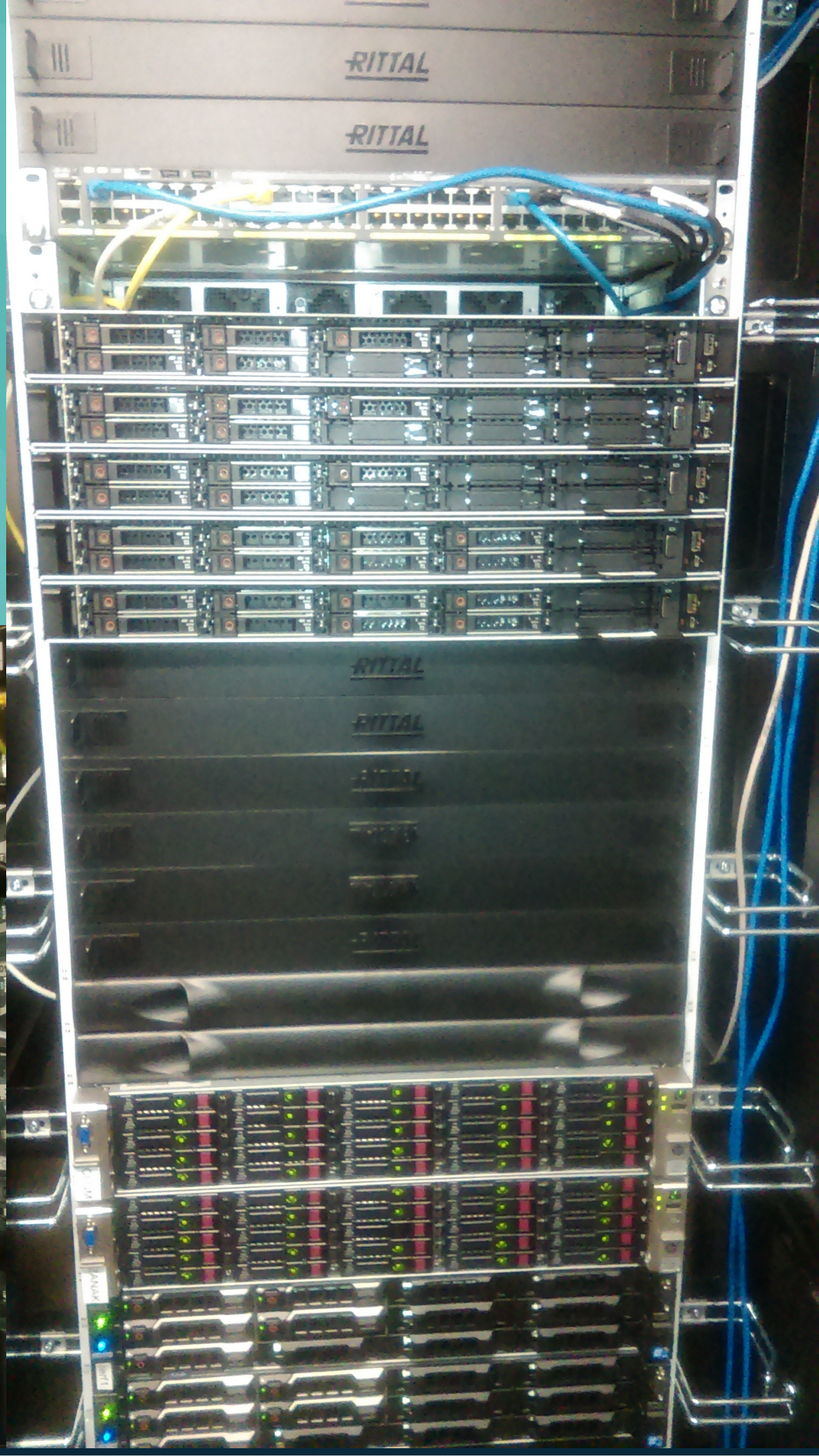
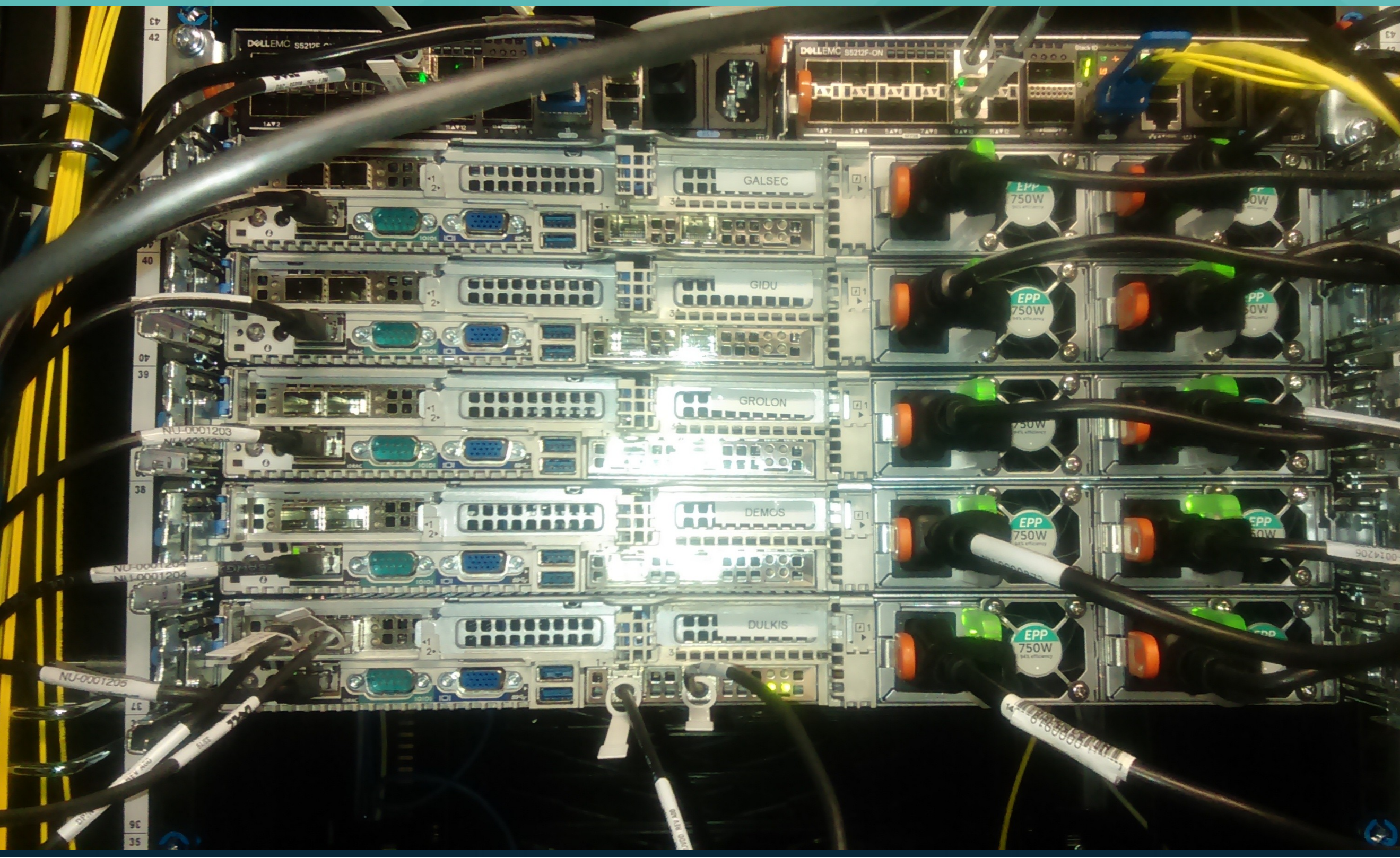


5 x Dell r640 with 2x5222 (2x4 core 3.8GHz) and 192GB RAM, 2TB SSD
4x25GbE for redundant (LACP) internal and external network
Network 2xS5212F-ON (12x25+3x100) with multi-chassi link aggregation



New headnodes

New nodes ->



Plans

- 3-node ganeti cluster
 - But all load should fit into a single node, so still have redundancy even if one node is out for maintenance
- 2-node postgresql cluster
 - Will include some slow storage for backups
- Performance of internal network
 - 35Gbit/s of iperf3 multiple streams performance
 - Looking forward to exploring drbd performance tuning
- How long for link aggregate failover?
 - Will test rebooting one switch soonish





Questions?