

Nikhef Site Report

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Outline

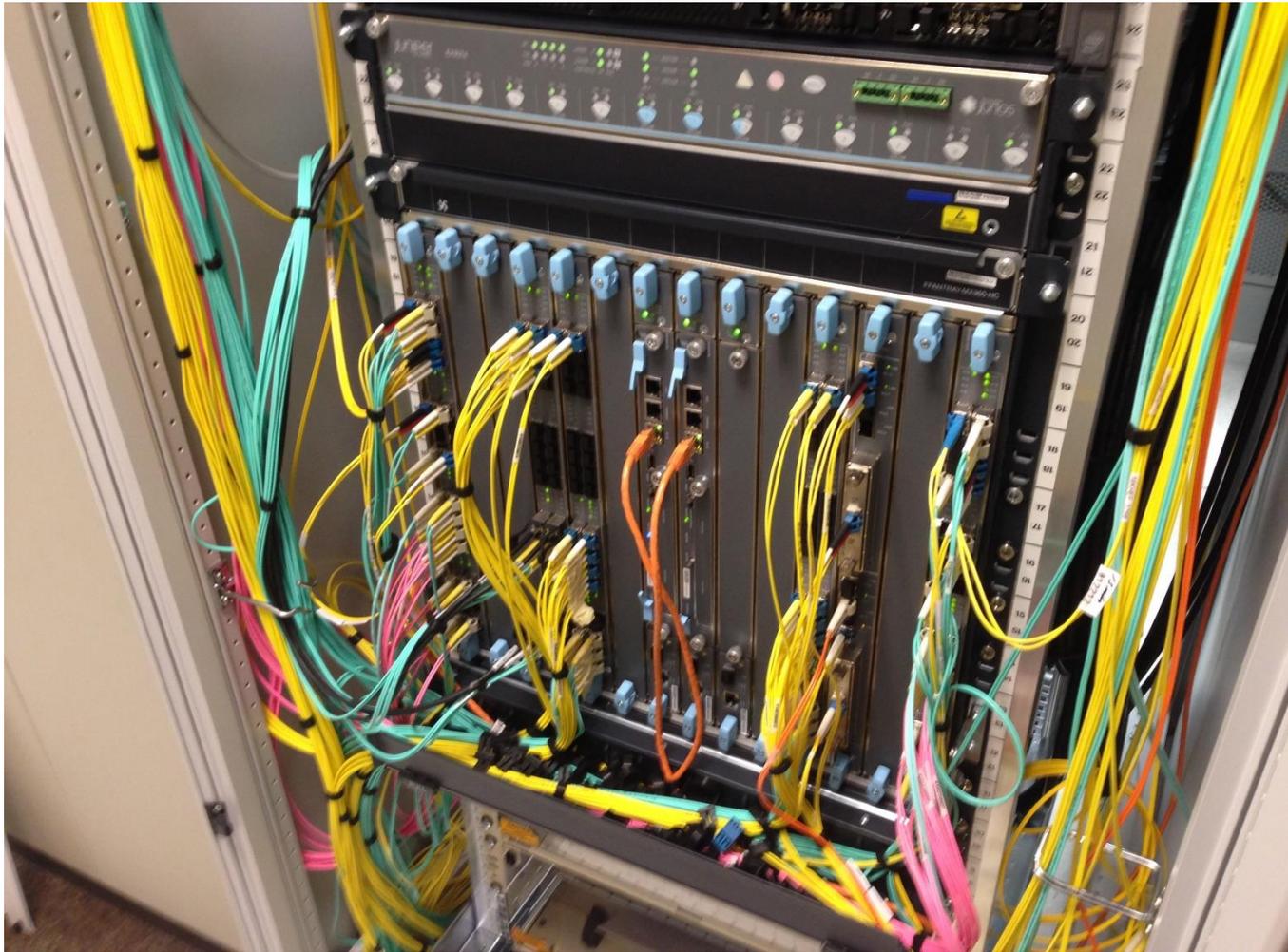
- personnel
- network
- wireless
- storage
- cluster

Personnel

- Director
 - Stan Bentvelsen
- THD/Datacenter
 - new head
 - renovation
- contracts
 - 90/10 to 70/30
 - 7 fte/3yrs

network

- Juniper EX9214
 - smooth transition
 - 100 Gb/s
 - bugs
 - ipfix sampling
 - unicast udp port 67
 - updates
 - 15 min
 - shared

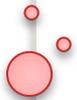
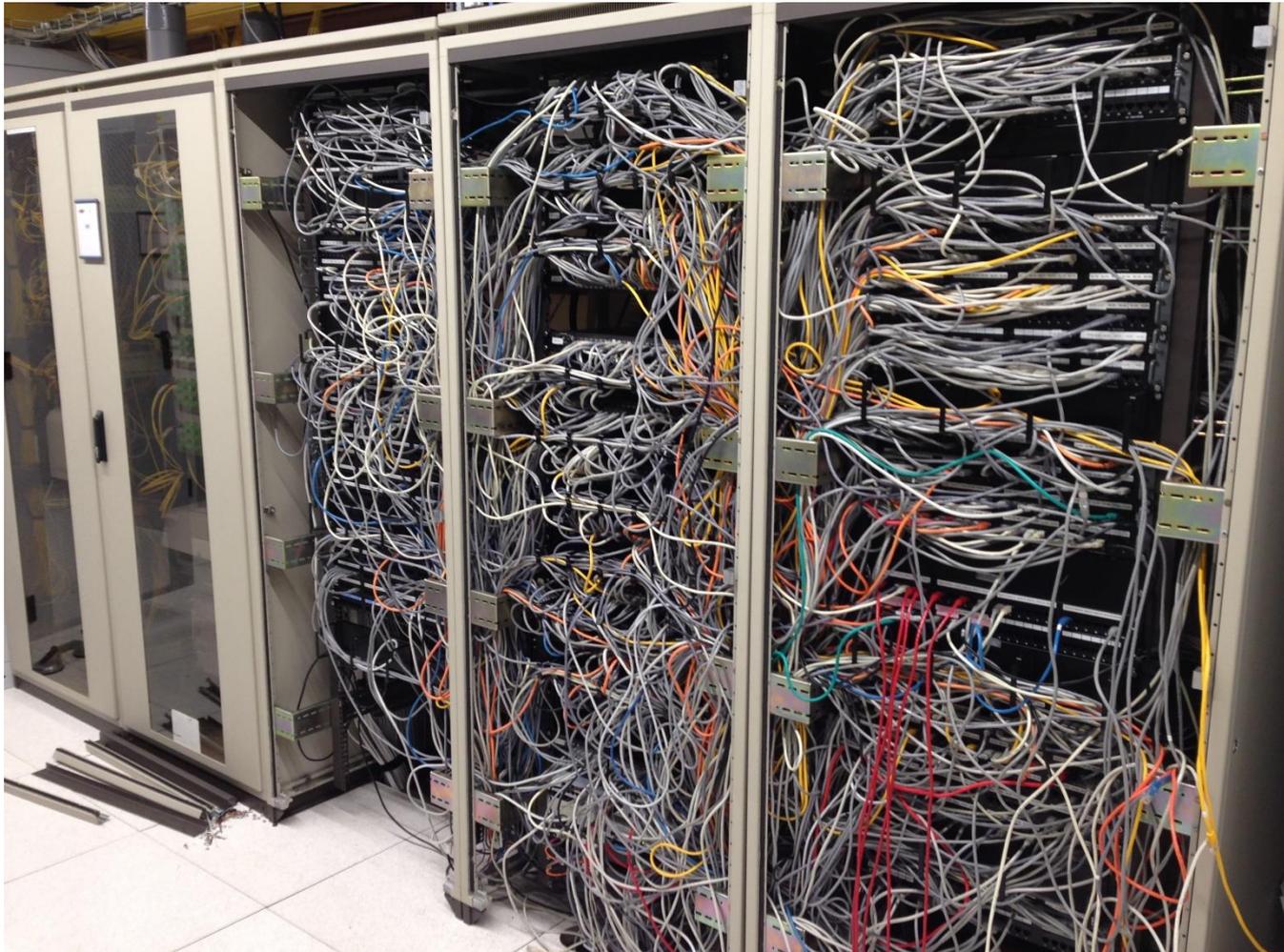


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Nikhef
Amsterdam
Computer-
Technology

network

- infrastructure
 - desktop
 - telephony (voip)
 - not all outlets connected

- growth ...



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network

- Preparation
 - 3 months
- 5-6 days
 - dismantling
 - new racks
 - old patch panels



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network

- Juniper 3300 POE (44)
 - 7 stacks
- Authentication
 - LDAP
 - Self registration
- Netdisco
 - searching stacks

wireless

- on campus
 - multiple eduroam
 - IP address
 - file share
 - printing
- Aruba
 - shared controller
- router
 - retagging

storage

- gluster
 - Dell R515
 - 100 TB
 - HEP ?
- lustre
 - used HEP
 - performance test

cluster

- marsepein
 - Dell R630 (58)
 - Dual Intel E5-2680v3 (12 core)
 - 192 GB
 - 1 TB (8)
 - 10 GB/s

cluster

- Sint Maarten
 - HP ProLiant BL460c G6
 - 175 blades, 1400 cores, 3GB/core, Xeon L5520
- Carnaval
 - DELL PowerEdge M610
 - 96 blades, 1152 cores, 4GB/core, Xeon E5645
- Knal
 - DELL PowerEdge R820
 - 18 nodes, 576 cores, 8 GB/core, Xeon E5-4620

cluster storage

- **Biet**
 - DELL PE 710 + trays
 - 4 x 96 TB
- **Oliebol**
 - Supermicro H8SGL
 - 9 x 120 TB
- **Strijker**
 - DELL PE R515
 - 29 x 30 TB

Questions?