



# Nikhef Site Report

Paul Kuipers

paulks@nikhef.nl

P. Kuipers  
Nikhef  
Amsterdam  
Computer-  
Technology





# Outline



- Windows
- network
- authentication
- storage
- mail
- Helpdesk
- **GRID**

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# Windows



- patches
  - WSUS
  - non-Microsoft
- software distribution
- Desktop Central (ManageEngine)
  - central managed packages
  - local administrative tasks
    - management
    - patch level overview
    - installed software (licenses)

# Windows

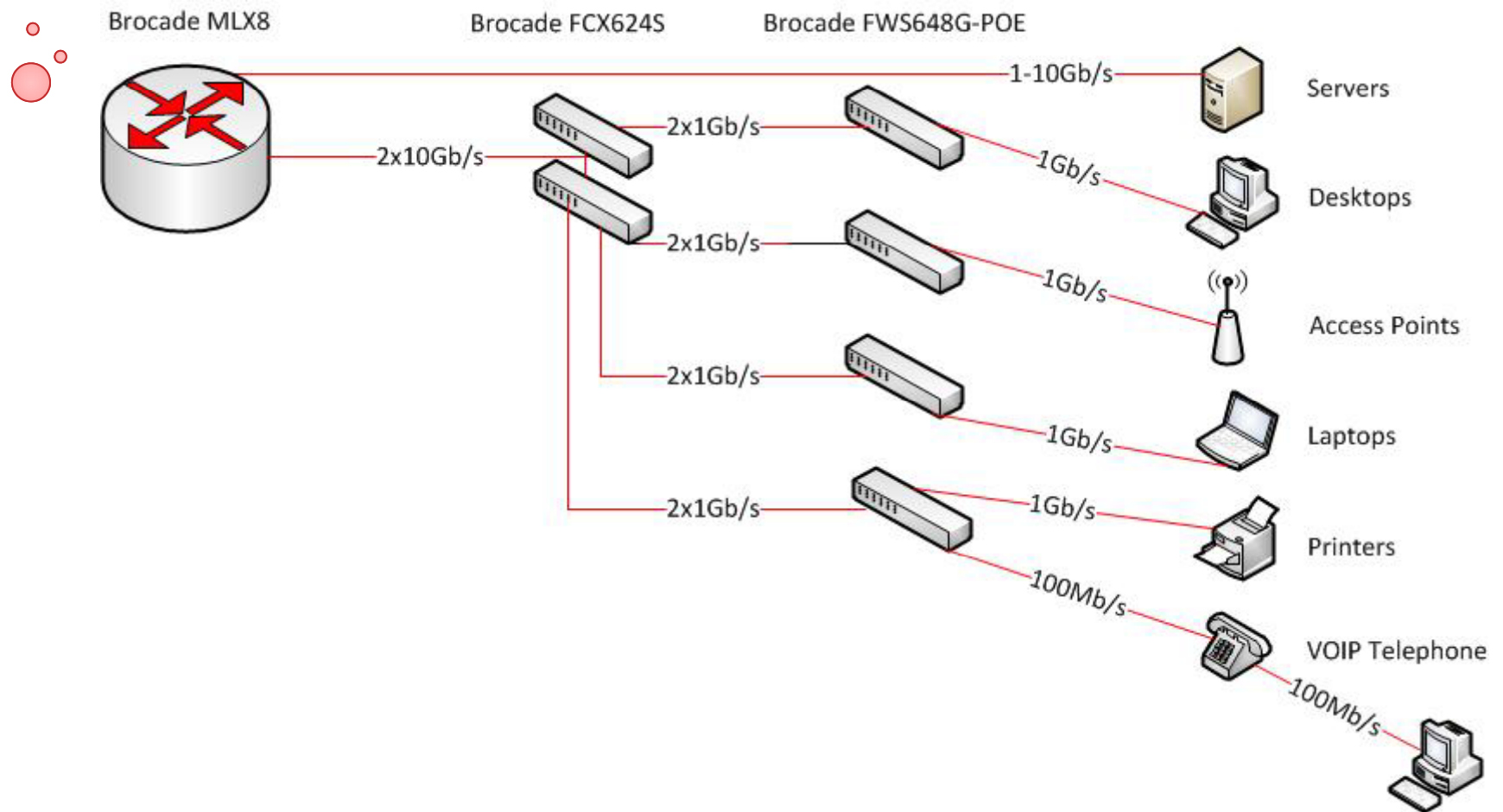


- basic installation
  - OS Windows 7
  - software
  - drivers
- OS Deployer (ManageEngine)
  - hardware independent
    - central driver repository

# Network



- old hardware
  - switches separated VLAN's
- telephony
  - VOIP
  - POE
- new design
  - higher bandwidth
  - over subscribing
  - all VLAN's all ports



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# Authentication



- LDAP
- cluster VM (2)
  - clusterip active-active
- Single-Sign-On
  - trusted SURFnet Federation
- UNIX
  - NIS replaced
- Windows
  - direct or copy (?)

# Storage

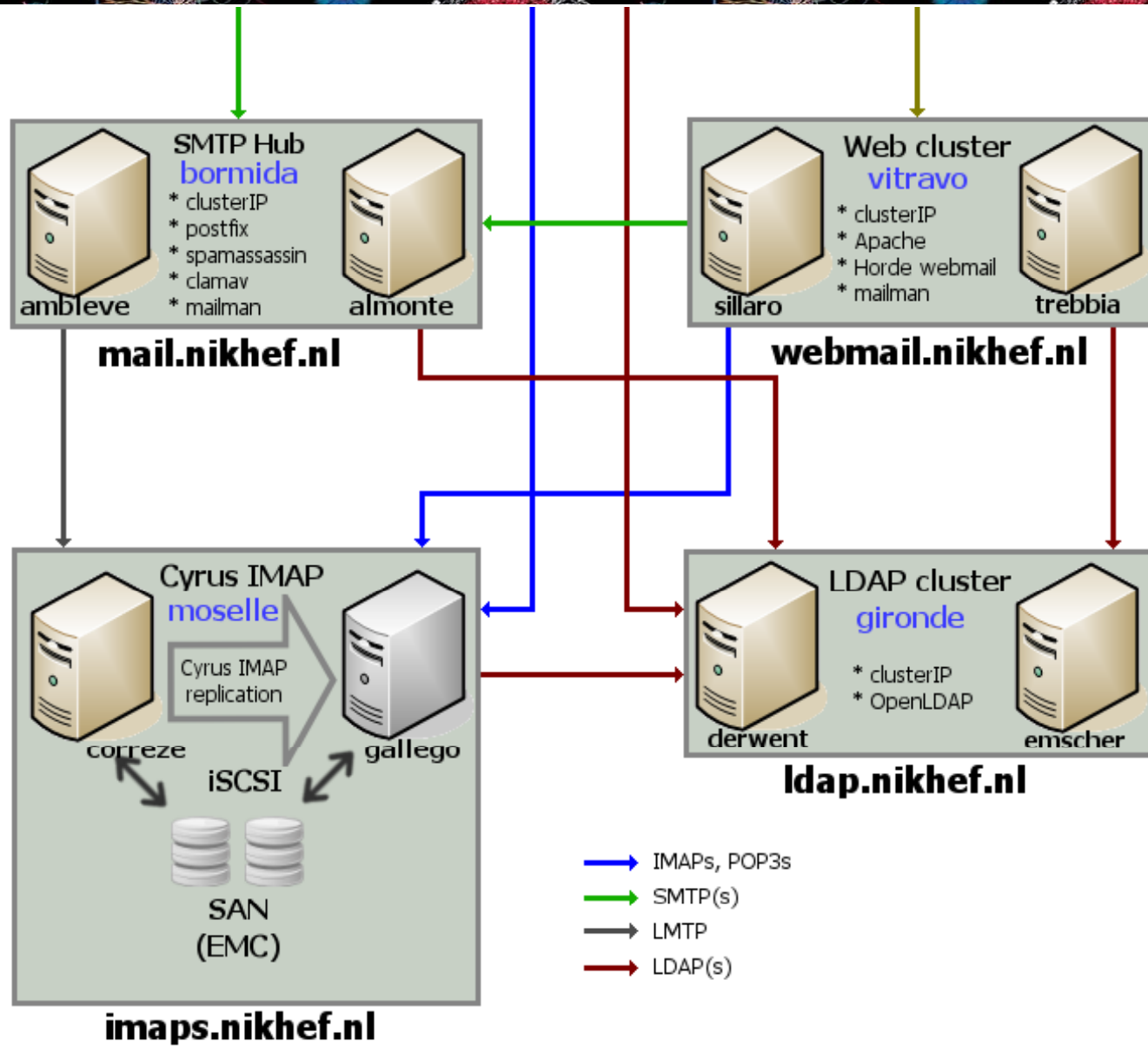


- RedHat cluster
  - loadbalancing
  - failover
  - management
  - 10 Gb/s
- iSCSI
  - Infortrend RAID/JBOD
    - GFS
    - older Infortrend

# Mail



- cluster VM: smtp, imap, webmail
  - clusterip
    - active-active: smtp, webmail
    - active-passive: IMAP
- incoming SURFnet
- postfix
- Cyrus IMAP
  - separate iSCSI server
- Horde webmail



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# Helpdesk

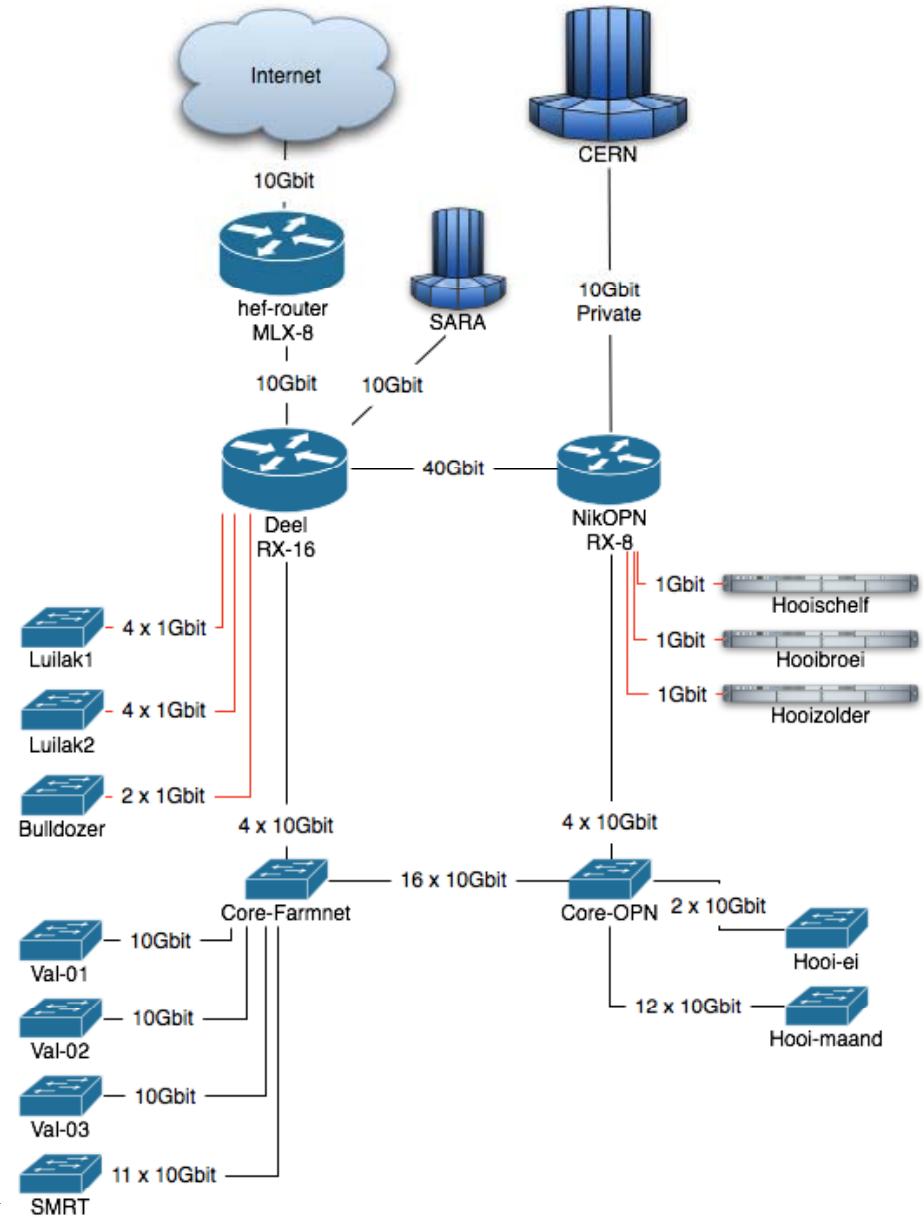


- ticket system
  - Topdesk Enterprise
  - groups
  - running tickets
    - overview
    - transfer

# GRID



- site      cores      storage (TB)
  - Nikhef    2488      1374
  - SARA     2376      3404
- network
  - Brocade MLX-16
    - VRF
      - worker nodes
      - storage
  - Arista DCS-7148SX
    - worker nodes @ 10Gb/s



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# GRID



- tenders
  - 1.2 PB storage
  - 51 kSPECint06Rate (base)
  - Q3 2011 install

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# Questions?

P. Kuipers  
Nikhef  
Amsterdam  
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