

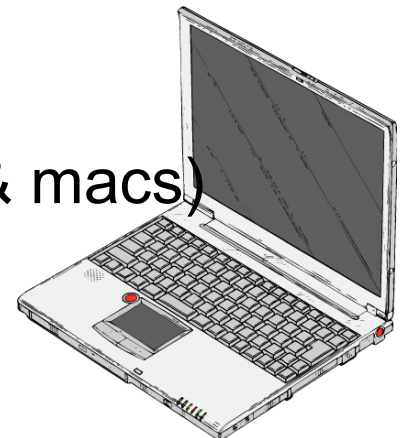
Glasgow Site Report

A. Pickford

Desktops/Laptops



- Desktops
 - ~ 50 'front line' desktop/lab pcs + 30+ older pcs
 - either SL4 (a few SL3) or WinXP
 - current spec 2 GHz dual core cpu, 2 GB ram (4GB next purchase)
 - unattended install (kickstart) for SL4 + cfengine configuration
- Laptops
 - ~ 40 laptops
 - various types, specs and OSes (linux, windows & macs)
 - 'standard' installation - dual boot SL 4 & WinXP



Batch System

- 9 Dell PowerEdge 2650 nodes
 - dual 2.4 GHz Xeons, 4GB ram
 - torque/maui
 - scientific linux 4
 - on/off usage pattern - either fully loaded (30%) or nothing
 - nearing end of useful life
- Replace with ~6 quad core Xeons in next 6 months



Servers 1

- Storage
 - 2 new storage machines
 - 48 x 1TB discs each
 - total of ~ 72 TB usable storage (RAID 6)
 - 3ware 9650 raid controllers
 - SLC 4 (xfs filesystem)
 - exported via nfs and samba
- Servers
 - SL4 + windows server 2003
 - authentication via nis (and samba for windows)
 - windows terminal server



Servers 2

- web (apache), printing, monitoring
- 'external' web pages moved to university t4 service
- internal pages/wikis retained
- backup
 - nightly backup schedule to disc
 - using dirvish
 - limited to user home areas (20GB/user)
 - retained for 7 days except
 - Saturday backups retained for two months
 - first monthly Saturday backups retained for six months

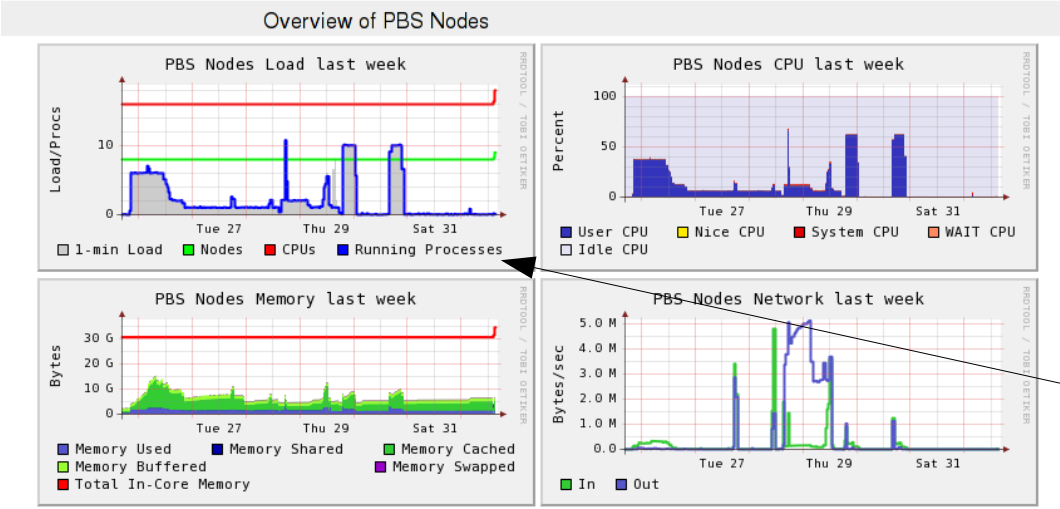


Monitoring 1

ppes1	 .PING.	OK	01-06-2008 16:17:55	3d 0h 6m 27s	1/4	PING OK - Packet loss = 0%, RTA = 13.75 ms
	3ware /c0	OK	01-06-2008 15:52:17	2d 23h 56m 17s	1/4	3WARE CONTROLLER OK: /c0 - All disks OK. BBU OK.
	3ware /c0/u0	OK	01-06-2008 15:59:26	2d 23h 49m 9s	1/4	3WARE RAID OK: /c0/u0 (RAID-1)
	3ware /c0/u1	OK	01-06-2008 16:14:56	3d 0h 3m 38s	1/4	3WARE RAID OK: /c0/u1 (RAID-6)

nagios - fault detection and notification

3ware 3dm tools + nagios to monitor and email alert on raid disc failure



ganglia – usage monitoring

Batch node usage

Monitoring 2

Pakiti: "all" hosts for Glasgow_PPE (16 June 2008 11:47)

Order by: admin

Display hosts: all vulnerable unpatched not reporting

Section: ppesysman@physics.gla.ac.uk

Scientific Linux CERN SLC release 4.6 (Beryllium)

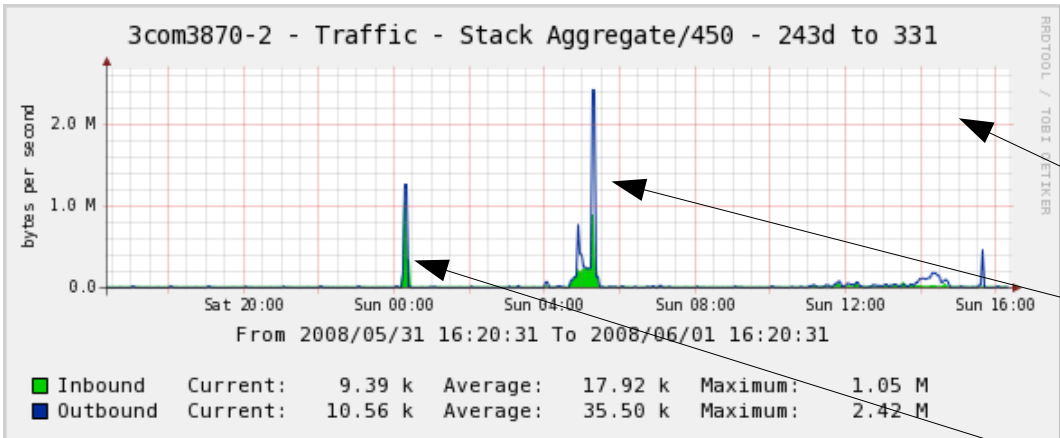
Security	Others	hostname	current kernel	last report	Connection
		ppes1.physics.gla.ac.uk	2.6.9-67.0.15.EL.cer	16 June 2008 08:09	🔒
		ppes2.physics.gla.ac.uk	2.6.9-67.0.15.EL.cer	16 June 2008 08:12	🔒

Scientific Linux SL release 4.4 (Beryllium)

Security	Others	hostname	current kernel	last report	Connection
		lf2.physics.gla.ac.uk	2.6.9-67.0.15.EL	16 June 2008 08:13	🔒
		ppend01.physics.gla.ac.uk	2.6.9-67.0.15.ELsmp	16 June 2008 08:15	🔒
		ppend02.physics.gla.ac.uk	2.6.9-67.0.15.ELsmp	16 June 2008 08:10	🔒
		ppend03.physics.gla.ac.uk	2.6.9-67.0.15.ELsmp	16 June 2008 08:14	🔒

pakiti – package update monitoring

kernel version



cacti – network traffic monitoring

group network backbone usage (over a weekend)

backups

SL4 package updates

Tier 2.5

- integrate new storage with local ScotGrid machines
 - allow grid jobs to access local group storage
 - security issues
 - nfs
 - group files typically world readable
 - literally world readable via the grid – unacceptable
 - only grid certs mapping to local users to be able to read files
 - grid compromise → potential back door to group/department systems
 - group storage machines on private grid subnet
 - allow only nfs to/from grid to group machines

Future

- move to new machine room in 2009
- replace batch system
- move backup machine out of departmental building
- Tier 2.5