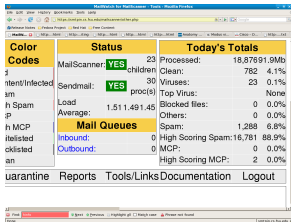


Highlights for 2010-2011 Equipment

- Replaced all of the majors lab desktops
- Replaced all of the network lab desktops
- Expanded 202 MCH Lab to 34 user desktops
- Revamped network in 100 MCH suite
- Cumulative number of tickets processed in help desk system is now over 6,000



The screenshot shows the MailScanner for Exchange web interface. It displays the status of mail processing and today's totals. The interface includes a sidebar with navigation links like 'Color Codes', 'Status', 'Today's Totals', 'Mail Queues', 'Reports', 'Tools/Links', 'Documentation', and 'Logout'.

Color Codes	Status	Today's Totals
MailScanner: YES	23 children	Processed: 18,876 91.9Mb
Sendmail: YES	30 proc(s)	Clean: 782 4.1%
Load: 1.51 1.49 1.45		Viruses: 23 0.1%
Average:		Top Virus: None
Blocked files: 0 0.0%		Blocked files: 0 0.0%
Others: 0 0.0%		Spam: 1,288 6.8%
High Scoring Spam: 16,781 88.9%		MCP: 0 0.0%
High Scoring MCP: 2 0.0%		

Mail Queues

Inbound:	Outbound:
0	0

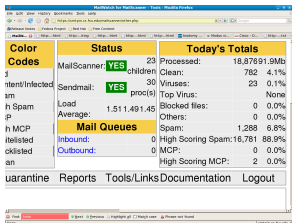
Reports Tools/Links Documentation Logout



Highlights for 2010-2011

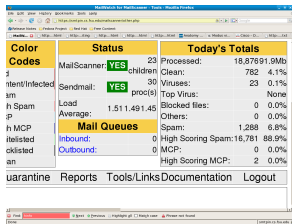
Revived graduate sysadmin track

- Graduate system administration track has been reactivated
- Dean has funded five T.A. positions with the idea that T.A.s from our department will serve as sysadmins throughout the college



What user services do we provide?

- Email Services
- Web Services
- File Services
- Programming Environments (Linux and Solaris)
- General Shell Access
- Database Services
- Subversion and CVS Services
- Printing Services
- Windows Terminal Services
- Desktop Support

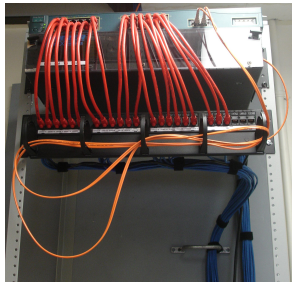


The screenshot shows a web interface for MailScanner. It includes a 'Color Codes' sidebar, a 'Status' section with 'MailScanner: YES' and 'Sendmail: YES', and a 'Today's Totals' table. The 'Today's Totals' table lists various metrics such as 'Processed: 18,876,919.9Mb', 'Clean: 782 4.1%', 'Viruses: 23 0.1%', 'Top Virus: None', 'Blocked files: 0 0.0%', 'Others: 0 0.0%', 'Spam: 1,288 6.8%', 'High Scoring Spam: 16,781 88.9%', 'MCP: 0 0.0%', and 'High Scoring MCP: 2 0.0%'. There is also a 'Mail Queues' section showing 'Inbound: 0' and 'Outbound: 0'. The bottom of the page has navigation links: 'Quarantine', 'Reports', 'Tools/Links', 'Documentation', and 'Logout'.

Status		Today's Totals	
MailScanner: YES	23	Processed:	18,876,919.9Mb
Sendmail: YES	30	Clean:	782 4.1%
		Viruses:	23 0.1%
		Top Virus:	None
		Blocked files:	0 0.0%
		Others:	0 0.0%
		Spam:	1,288 6.8%
		High Scoring Spam:	16,781 88.9%
		MCP:	0 0.0%
		High Scoring MCP:	2 0.0%



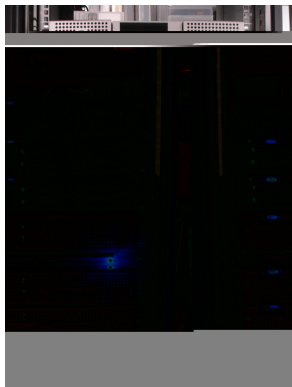
What infrastructure services do we provide?



- DHCP
- Backup
- Security Cameras
- Domain Controllers
- Spam Filtering
- Wireless
- Log server



Many boxes, different environments



- 40+ servers
- Many routers and switches
- Lots of desktops
- Technology-enabled labs



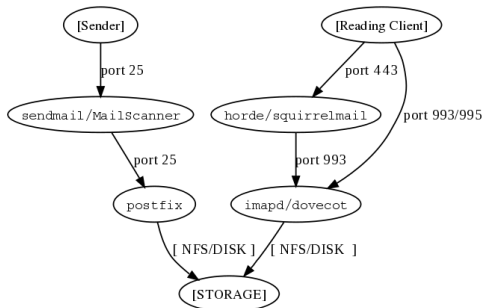
People



- 1 Permanent A&P
- Several OPS graduate and undergraduate students who are serve as sysadmins and as webmaster
- Numerous Lab monitors

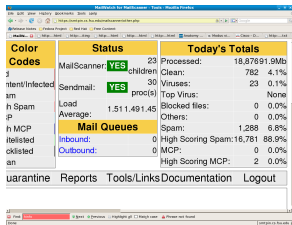


Overall Structure of Email Services



How Email Works

- sendmail/MailScanner
- sendmail uses RBLs, GreetPause, and denies hosts that have no reverse-lookup record
- we don't (yet) require SPF, but the trend is very clearly that way (now over 50% of sites provide SPF records)
- MailScanner calls SpamAssassin which assigns a "spam score" to each email
- SpamAssassin uses DCC, Razor, and (like sendmail) also RBLs



Color Codes	Status	Today's Totals
MailScanner	YES	23
children		Processed: 18,878,919Mb
Sendmail	YES	30
proc(s)		Clean: 782 4.1%
Load	1.51 1.49 1.45	Viruses: 23 0.1%
Average:		Top Virus: None
Blocked files:	0 0.0%	Others: 0 0.0%
Spam:	1,288 6.8%	Spam: 16,781 88.9%
High Scoring Spam:	2 0.0%	MCP: 0 0.0%
High Scoring MCP:	2 0.0%	

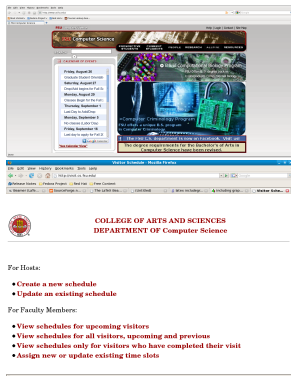
Mail Queues

Inbound:	0
Outbound:	0

quarantine Reports Tools/Links Documentation Logout



Our webserver



- webserv.cs.fsu.edu, supporting many, many virtual hosts:
acm.cs.fsu.edu, msdnaa.cs.fsu.edu, www.cavis.fsu.edu, cybersec.cs.fsu.edu, fci.cs.fsu.edu, service.cs.fsu.edu, www.lens.cs.fsu.edu, fsvision.fsu.edu, system.cs.fsu.edu, www.sait.fsu.edu, lit.cs.fsu.edu, webmail.cs.fsu.edu, www.aces.cs.fsu.edu
- webserv2.cs.fsu.edu, student pages
- visitwww.cs.fsu.edu



Our fileservices



- NFS is widely used throughout the department
- I would like to see us move toward user-directed FUSE mounting using sshfs rather than system administrators configuring NFS on an *ad hoc* basis
- Not only is the maintenance much simpler for everyone, it also offers users far more flexibility in what filesystems they can have mounted



Our fileservices



- sshfs syntax is very simple:
`sshfs`
`langley@diablo:/home/faculty/langley`
`mounts/diablo`
- “gotchas”: you likely want to set up a ssh heartbeat as a keep alive



Our database services



- We offer MySQL on dbserve.cs.fsu.edu
- We overuse MySQL when such lightweight databases such as SQLite would probably be more than sufficient, and arguably more secure – there are no separate credentials to worry about when accessing SQLite.



Subversion and CVS services



- We have a dedicated Subversion and CVS server.
- Please contact the systems group if you want to use it.



Windows Terminal Services



- `cstern1` for Windows Terminal Services
- You can use this from Linux with `rdesktop`
- This can save you from dual-booting or having two desktops.
- Of course, you can also use virtualization to also save on desktop space; for Linux and Windows, it's hard to beat VirtualBox (available for free at www.virtualbox.org)



Bits and pieces in the background



- Perhaps the surprising thing about “infrastructure” is that we do provide some security cameras, mainly for server rooms and labs
- We also have a camera in 208 MCH since we are also in and out a good bit.
- We use Zoneminder to monitor the IP cameras, and the closed circuit camera output goes to a dedicated server
- We use Cacti for performance monitoring



Summary



• We are in 208 MCH, across the parking lot from the Love Building

