How much did shutting down McColo help?

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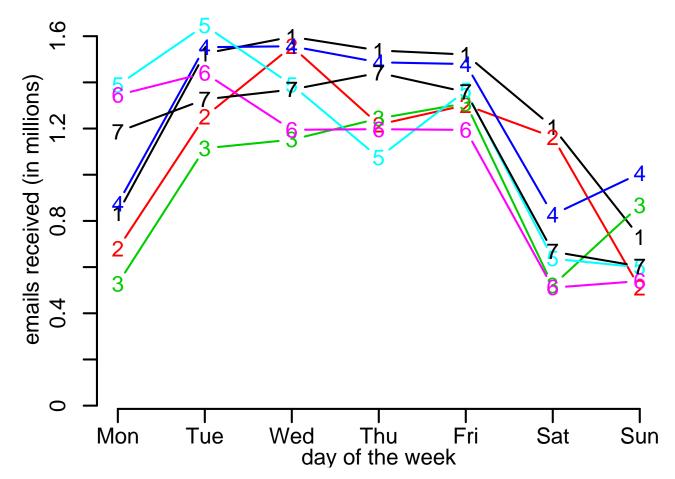


Computer Laboratory

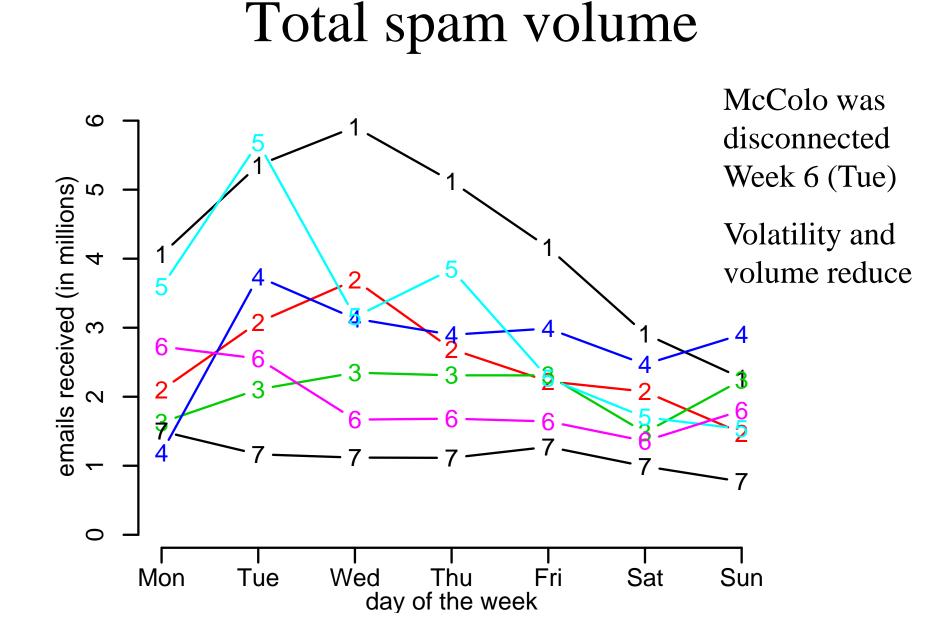
McColo Disconnection

- McColo disconnected Tue 11 Nov 2008
- Took 6 major botnet controllers offline
- Reports suggested spam dropped by 2/3rds
- BUT was this "hard to block spam" – we all cheer!
- OR maybe it was "easy to block spam" – we all yawn

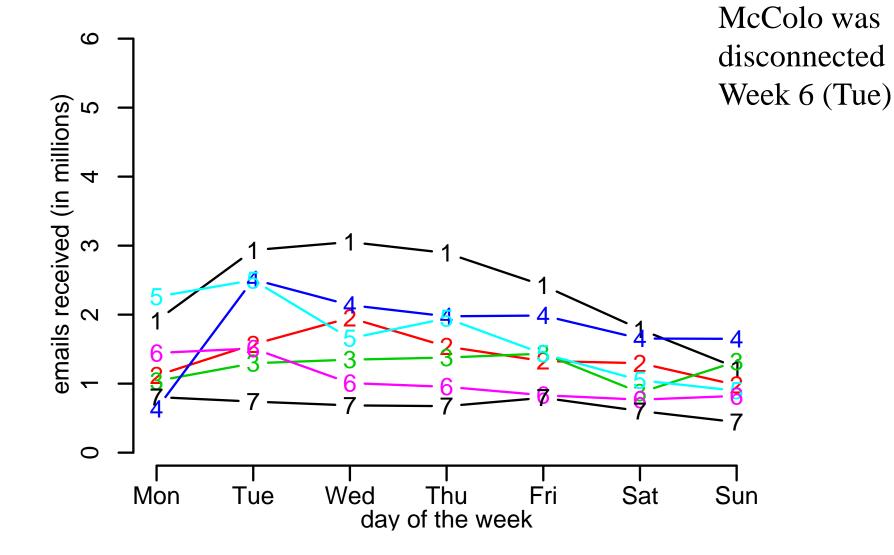
Dataset



- Seven weeks of email data
- Medium-sized UK ISP with *c*.150K customers
- Fairly consistent pattern of nonspam email (except Mondays)



Spam removed by filters



Impact on filter usage

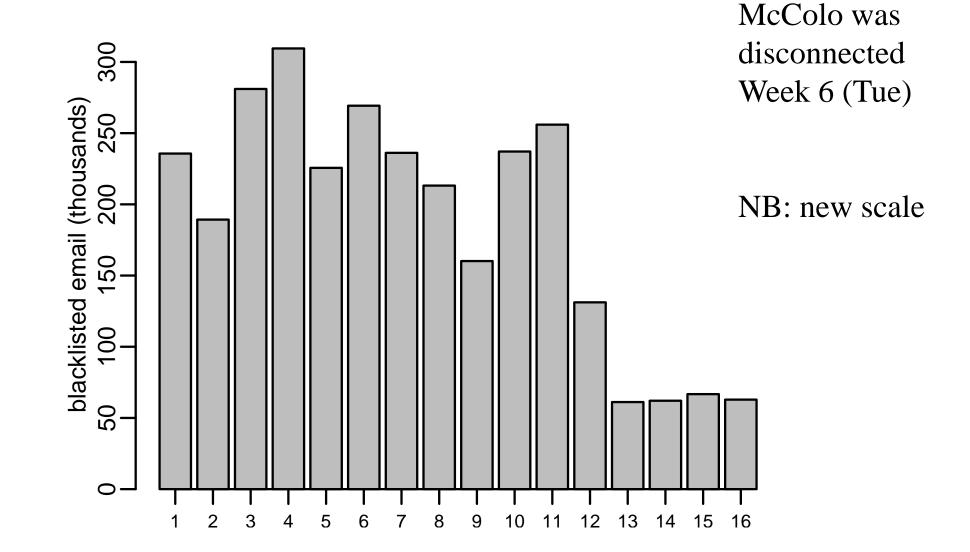
- Filters are an expensive way to block spam
- Before disconnection 32% to 56% of spam could be dealt with prior to the filters
- After disconnection a more consistent 43% could be dealt with prior to the filters (but of course there was less spam overall)

Spam to unknown addresses

McColo was

0.9 disconnected Week 6 (Tue) emails received (millions) 0.6 6 NB: new scale 6 0.3 5 3 0 Wed Sat Mon Tue Fri Sun Thu day of the week

Spam from blacklisted IPs



Recap

- Non-spam fairly constant
- After disconnection event
 - less volatility and lower overall spam volumes
 - higher (or some days lower) proportion of spam reached content filters
 - "unknown address" rule much less effective
 - blacklisting IPs much less effective
- So disconnection Good, but some ISPs will have been less impressed than others

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http://www.lightbluetouchpaper.org/



