

May 15, 2013
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- Rise in abusive DNS traffic

  Mitigating the adverse effects
  - What we are working on now



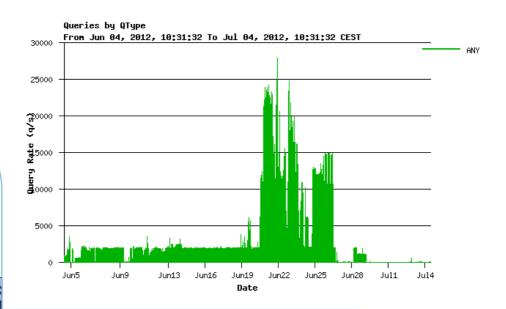
## 2012 ANY traffic grows

- Amplification attacks using ANY queries
- Traffic is amplified 100 times
- Could have been almost 200 if RD bit set



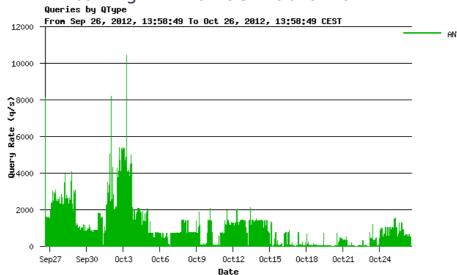


### ANY traffic vs iptables u32 filtering





#### Incoming ANY traffic still abnormal





# February 2013



- ANY traffic at our secondary name servers
- FreeBSD / OpenBSD no U32
- So we built a new Linux cluster
- First implementation of RRLs in BIND
- RRLs on all DNS servers (BIND & NSD)



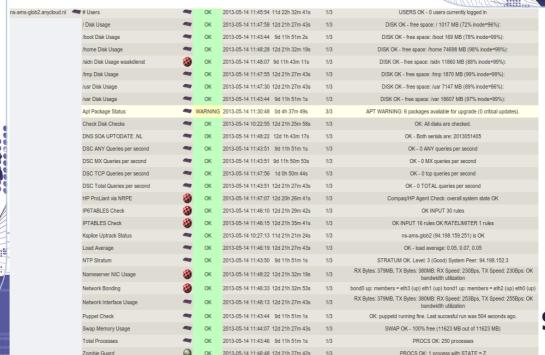


## Now

- Rolling out anycast name servers
- Increasing monitoring and alerting
- 30+ checks per DNS server
- Ready for the next big one

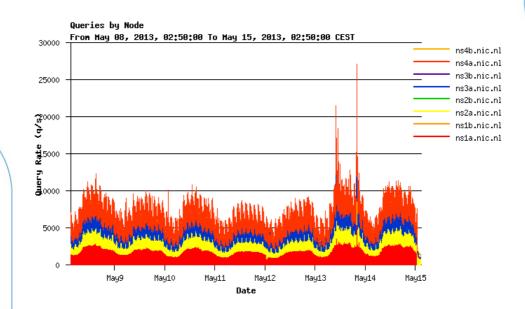


### Look, even more Nagios checks.





## 'Normal traffic'







# Questions?

