

SPANHAUS PROJECT

UKNOF6 - 19TH JANUARY 2007



Welcome! In the next 30 minutes:

- ---- About Spamhaus

- ----- Zombies Have uses apart from mail
- ----- Zombies What can you do?



About Spamhaus

- ----- Corporate research team



Spamhaus SBL

- ---- 100% human input

- ---- Other spam support services
- ----- Escalations if needed



Spamhaus XBL

- ----- Lists illegal 3rd party exploits
- ••• Only /32 listings



ROKSO

- Register Of Known Spam Operations
- ~ 200 spammers, 80% of all spam
- *** Vetting of customers



Spamhaus DROP

- ---- Don't Route Or Peer list
- Known rogue networks / IP ranges / ASNs, 100% under spammer control



Spamhaus relations

- ···· ISPs / ESPs / xSPs
- ---- Law enforcement
- ----- Research community



Zombies -How bad is the problem?





New zombies detected by XBL on 14th of january 2007





seconds between infection and first-spam-sent (W32/Tibs)



Zombies -How do they work?



Attack vectors

- Social engineering
 (postcard_newyear.jpg.exe)



Multi stage

- ••• User installs software

- ••• Other exploits installed (DDOS!)



Evolution

- ---- Proxies

- *** Windows 'rootkits'



Evolution

- ----- Proxies
- ----- Private (ACL'ed) proxies
- *** Windows 'rootkits'
- What's coming next?



Command & Control (C&C)

- Many ISPs do not know one when they have one



Command & Control (C&C)

would you block?



Zombies -Have uses apart from mail



'Yambo' webhosting

- which proxies to another proxy



Fast Flux hosting

- ••• URL served on 5 IP addresses

- ----- DNS fast fluxed too



Fast Flux combatting

- ---- Difficult to shut down
- The only effective point of control is in the hands of the registrar



Zombies - What can you do?



Using traffic patterns

- ---- DNS traffic
- Port 25 outgoing
- ----- Network may need change



Using feedback loops



Why you should care

- Large consumer networks will block parts of your network if high levels of zombie traffic are perceived



Spamhaus PBL



The Spamhaus PBL is a DNSBL database of end-user IP address ranges which should not be delivering unauthenticated SMTP email to any Internet mail server except those provided for specifically by an ISP for that customer's use.



The PBL helps networks enforce their Acceptable Use Policy for dynamic and non-MTA customer IP ranges.



Spamhaus Policy Blocklist

- ----- End user ranges
- *** Two categories:
 - ----- Data by participating ISP
 - ---- Data by Spamhaus
 - Recognizable by DNS response



Spamhaus Policy Blocklist

ISP interface for your managing your own IP ranges



How not to use PBL



www.spamhaus.org/pbl/



Closing up...

What other data can we provide that would help you protect your network?