SPAMHAUS

THE SPAMHAUS PROJECT

# Stop. Outbound. Spam.
# S.O.S.

# About Spamhaus

- Fighting spam & malware ~1998.
- 30 researchers worldwide.
- Used daily by 1.7 billion users.
- IP, domain & URI reputation data.
- Extending to DNS with BIND RPZ.

# Bold Statement

Contrary to popular belief,
Spamhaus DOES NOT block spam or
filter any email content.

# Spamhaus Mission

"To research and publish the most accurate internet reputation data."

"This data enables users to make informed decisions on what network connections should be accepted."

# S.O.S. Recommendation #1

**Start using XBL today.**
**Stop talking to bad guys.**

**Japan Net Neutrality regulations do not apply since there is Zero packet filtering.**

# XBL

## eXploit Block List

### 1,500,000 bad IPs tracked worldwide

**36 seconds - time to start spam (W32/Warezov)**

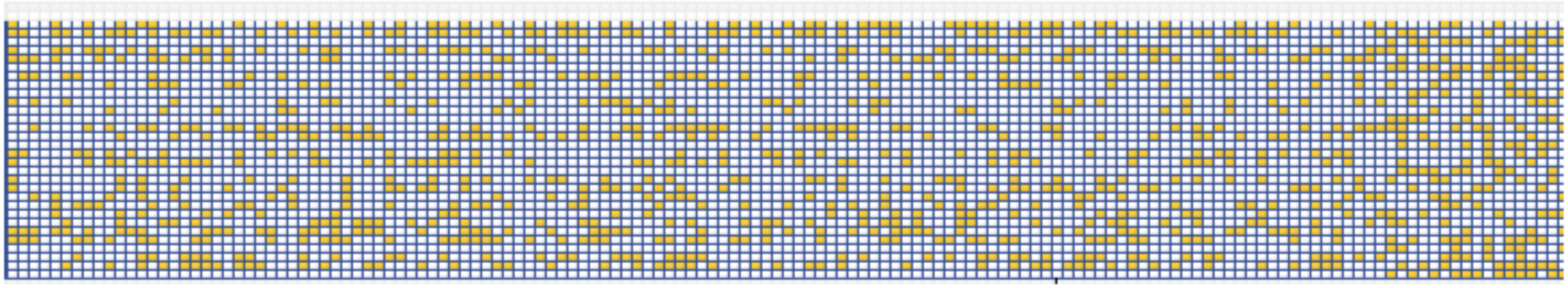
# Spamhaus XBL

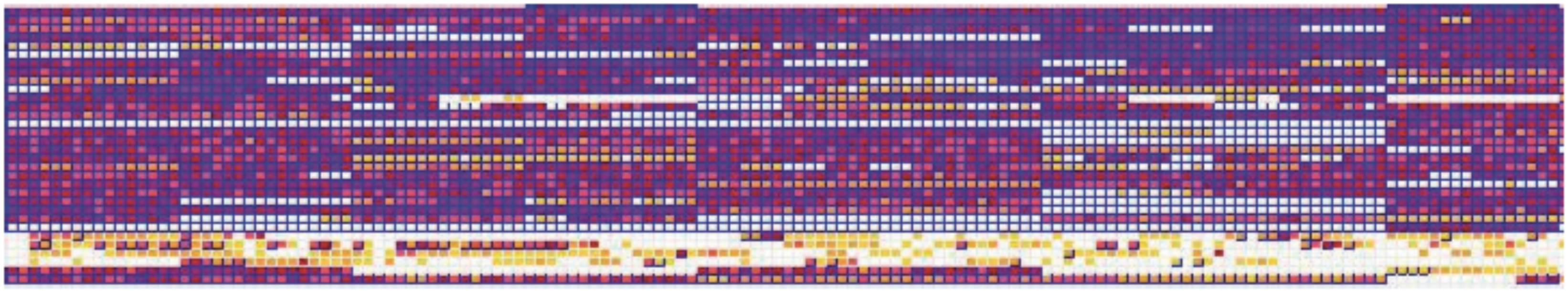
- 100% automated input.
- Traps, sinkholes, prod systems.
- Botnet tracking – 66% of listings.
- IP's with confirmed bad behavior.
- /32 listings - No question removals.

# Spamhaus XBL

- Stats per botnet, ISP, country.
- Data visualization.
- Detailed intelligence available.

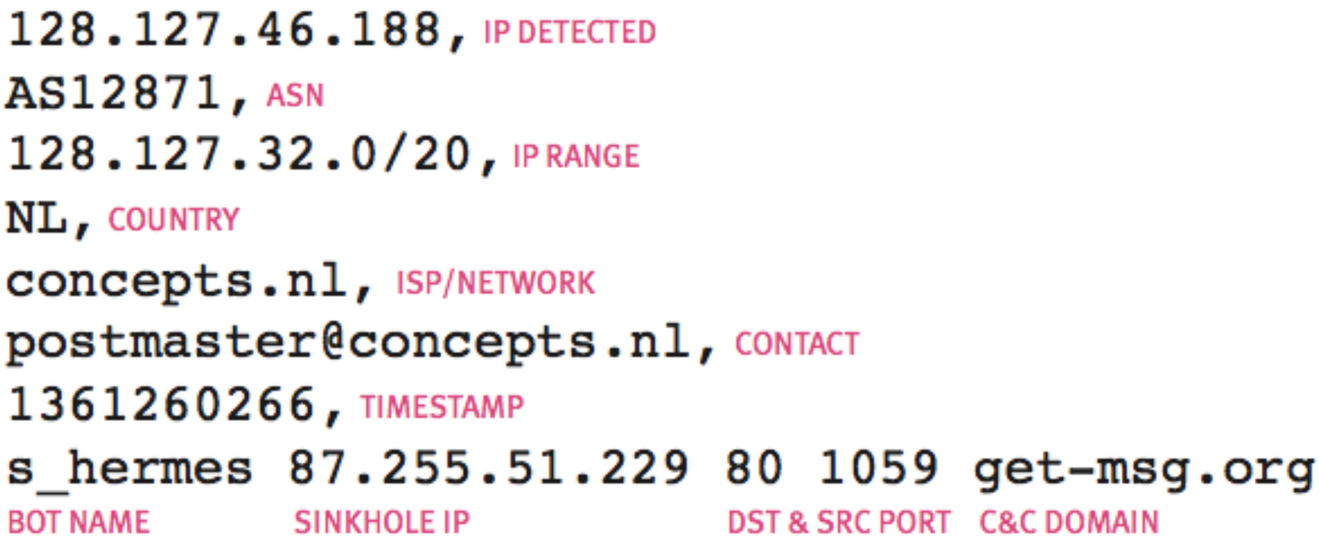
# Good vs. Bad Netblock





# Spamhaus XBL

- **Exploit intelligence:**



```
128.127.46.188, IP DETECTED
AS12871, ASN
128.127.32.0/20, IP RANGE
NL, COUNTRY
concepts.nl, ISP/NETWORK
postmaster@concepts.nl, CONTACT
1361260266, TIMESTAMP
s_hermes  87.255.51.229  80  1059  get-msg.org
BOT NAME  SINKHOLE IP         DST & SRC PORT  C&C DOMAIN
```

# S.O.S. Recommendation #2

## Implement DBL.

**DNS Firewall with BIND RPZ.**

**Protect users from getting infected.**

# DBL – not just for email

- "In-message" URI click filter.
- Use as DNS Firewall.
- Resolvers now re-direct users.
- Inbound and outbound mitigation.
- Shorten the lifespan of bad domains.

# DBL – what URIs?

- Domains under miscreant control.
- Phishing & malware distribution.
- Spamvertized URI, redirectors, shorteners, reverse DNS botnets, C&C, etc…
- Updates every 10 seconds.

# S.O.S. Recommendation #3

a) Stop C&C Botnets.
b) DROP criminal traffic.

# Spamhaus C&C

- IP addresses used for botnet command/control.
- Impact C&C communications.
- Block on router level or DNS.
- Monitor own network for infection.
- Prevent outbound spam.

# Spamhaus DROP

- Worst of the worst.
- IP space under control of bad guys.
- Use on router/firewall.
- Monitor own network for infection.

# S.O.S. Recommendation #4

## Use SBL/PBL if possible.

**The foundation of your efforts.**

# Spamhaus SBL Data

- 100% IP Based.
- Human and automated input.
- Static Spam sources.
- Spam Webhosting / DNS.
- Other spammer support services.

# SBL identifies:

- Spammer infra: DNS servers, web servers, MX Servers, C&C Server, reverse proxies, payment gateways, MITM injections, exploit pages, etc…
- Hijacked IP ranges & ASNs – used for fraud & spamming.

# Use SBL to fight:

- Static spammers
- Snowshoe spam
- Spammer eco-system

# Policy Block List

- Ranges with no direct-to-MX.
- Input by Spamhaus and ISPs.
- No question asked single IP removal.
- 925 million IP addresses.
- ISP can add custom policies and info.

# The End.

almost...

# Together we can win

- We need your help.
- Lets share knowledge/expertise.
- Can we provide tools (passive DNS).
- How about Data sharing?
- Does JPRS want to play?

# Network Self-Regulation Works.

**"But not if you ignore concerns from other networks, or if you do not communicate. Others will block traffic from your network."**

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# Thank you!