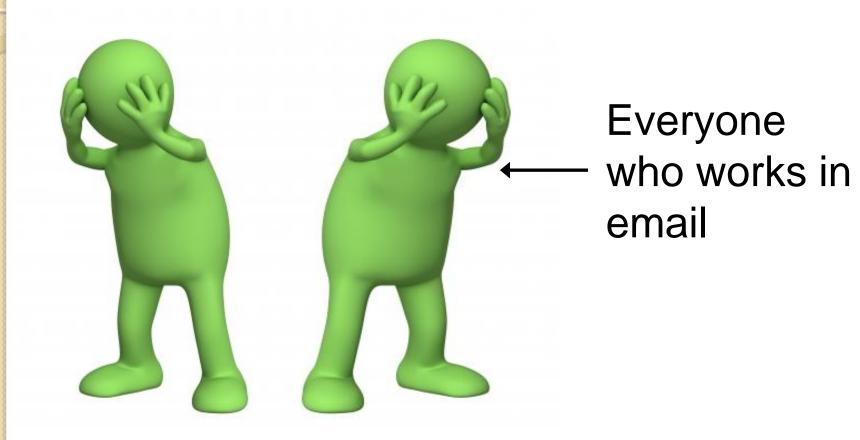


Terry Zink
Program Manager
Microsoft

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IPv6 is coming



Why? Because of scale!

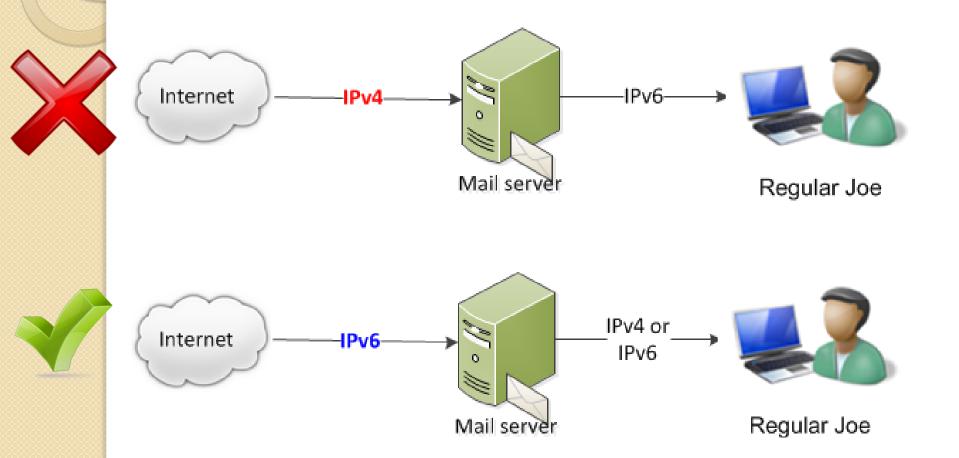


Feeding your family...

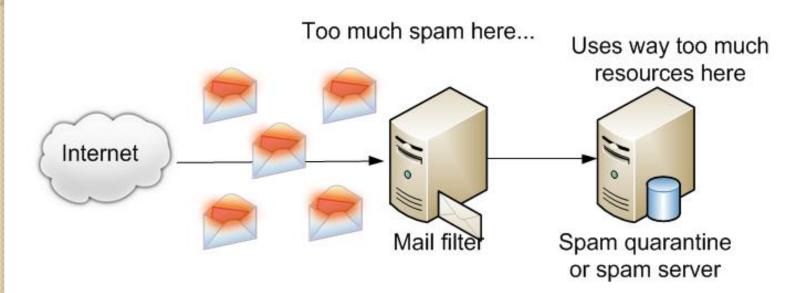
... vs feeding the world



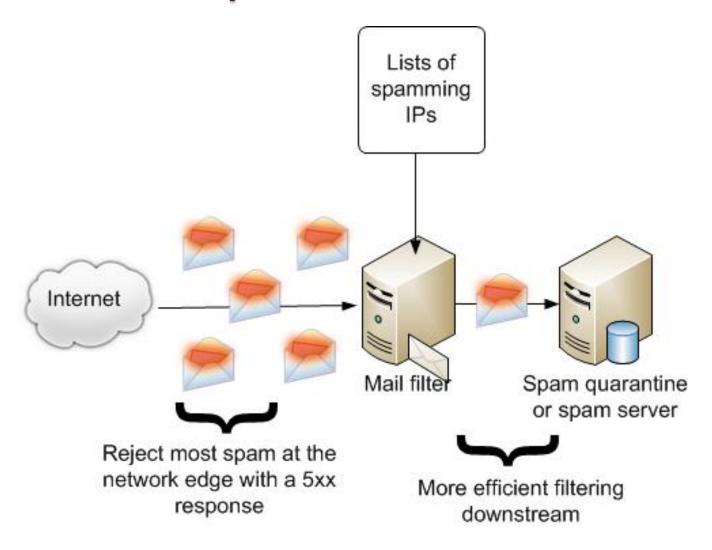
What we mean by email over IPv6



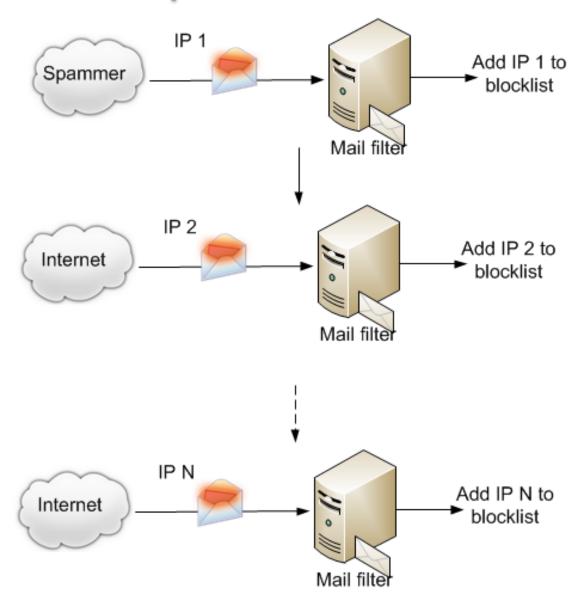
Modern spam filters



Modern spam filters



Future spam filters?





Types of whitelists

IP address-based

Domains – SPF checks or DKIM checks

Certificates such as TLS

Population

- Manually
- 3rd party reputation service
- Pre-population using domain whitelists or SPF records
- Enlisting web page
- Build reputation over time
 - Low reputation = high throttling

Removal

- Keep track of IP's reputation (spam/nonspam volumes)
- If bad:
 - Use as weight in filter
 - Lower reputation for higher throttling
 - Remove from whitelist

IPv4 vs IPv6

Blocking Allowing

Constant Less frequent additions

First time easy to send

First time difficult to send

Standards

HOW STANDARDS PROLIFERATE: (SEE: A/C CHARGERS, CHARACTER ENCODINGS, INSTANT MESSAGING, ETC.)

SITUATION: THERE ARE 14 COMPETING STANDARDS. IH?! RIDICULOUS!
WE NEED TO DEVELOP
ONE UNIVERSAL STANDARD
THAT COVERS EVERYONE'S
USE CASES.
YEAH!

SOON:

SITUATION: THERE ARE 15 COMPETING STANDARDS.

Conclusions

IPv6 is coming

 Eventually we will send email over IPv6

 We need to do something different than what we do in IPv4

QUESTIONS?

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