Smart Happy Eyeballs

Arturo Servin
LACNIC
IETF-82
Disclaimer

• This is just a wild idea, it requires some more though to see if it is applicable
Happy Eyeballs

• Happy Eyeballs: Success with Dual-Stack Hosts (draft-ietf-v6ops-happy-eyeballs)
• Specifies requirements for algorithms that reduce delays in dual-stack host when the IPv6 path is broken.
The problem that HE tries to solve

• In dual-stack hosts when the IPv4 server and path works but the IPv6 server or IPv6 path is down, the hosts experiences significant connection delay compared to IPv4 only hosts
• HE tries to avoid that by trying both protocols more aggressive and using the one that works
Stateful behavior

• The algorithms remembers which connections fail and which succeed
• A static implementation would try failing connection periodically
Questions?

• Is it possible to optimize the period of time that a host retries destinations using a learning approach?

• Is it possible to optimize based on different criteria such as IP-prefix, domain name, ASN?
That's all Folks!