

Happy Eyeballs considered harmful

/me

- ▶ I am not Jen!
- ▶ Freelance consultant doing IPv6 since 2007
- ▶ organising a monthly “Stammtisch” for admins in Berlin (well on the Internet right now)

What is Happy Eyeballs?

- ▶ Mainly implemented in web browsers
- ▶ trying to work around broken IPv6 connections on the internet
- ▶ around since about 2011
- ▶ Some people claim that is one big reason why the big players dared to enable IPv6 at all

How does it work

- ▶ Uses both IPv6 and IPv4 to connect to a remote server, with a little head start for IPv6
- ▶ Then chooses the working / better connection

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- ▶ What other side effect might this have? %%
- ▶ People might have heard about it but don't realize what it does and what problems it may causes

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- ▶ Server has a AAAA record, routing works, but there is a firewall in place

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- ▶ VPN currently only supports IPv4 %%
- ▶ Short term solution: Disable IPv6 DNS lookup in Firefox %%
- ▶ Long term solution: New VPN setup with dual-stack (until we can move to IPv6 only)

Conclusion

- ▶ Be aware of HE, how it works and what problems you might face
- ▶ Know your infrastructure
- ▶ If you offer services to the internet: Monitor from the outside
- ▶ (Try to) automate or at least have a check list / workflow for setting up new services
- ▶ Don't use IPv4 only VPN tunnels

Measurements

- ▶ maybe some should measure how broken the (IPv6) internet really is and if we really need Happy Eyeballs

Questions?