A well-known BGP community to denote prefixes used for Anycast

draft-wilhelm-grow-anycast-community

IETF 114 - GROW WG
Maximilian Wilhelm
Agenda

1. Motivation
2. Proposed solution
3. Questions
Maximilian Wilhelm

- Networker
- OpenSource Hacker
- Fanboy of
  - (Debian) Linux
  - (Linux) networking
- Occupation:
  - By day: Network Automation Engineer at Cloudflare
  - By night: Infrastructure Archmage, Freifunk Hochstift
  - In between: Freelance Infrastructure Architect for hire
- Contact
  - @BarbarossaTM
  - max@sdn.clinic
Who's who

Motivation

Simplified topology
Use cases

- Allow NSPs to denote which prefixes are used for anycast
- ISP can make well informed traffic engineering decisions based on that
Proposed solution
Proposed solution

Define well-known ANYCAST BGP community

- Denote that a prefix is carrying anycast traffic
- Allow / ask operators to always use hot-potato routing for those prefixes

All or nothing

- SPs SHOULD mark a prefix with ANYCAST in all place or not at all

IXPs

- Route Server operators MAY introduce an option to filter for ANYCAST prefixes

iBGP RRs

- It might make sense to use ORR or AddPath to leverage ANYCAST community
Who's who
Motivation
Solution
Questions?