Homenet Hackers!

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Mehdi Kouhen (Ecole Polytechnique)

Pierre Pfister (Cisco)

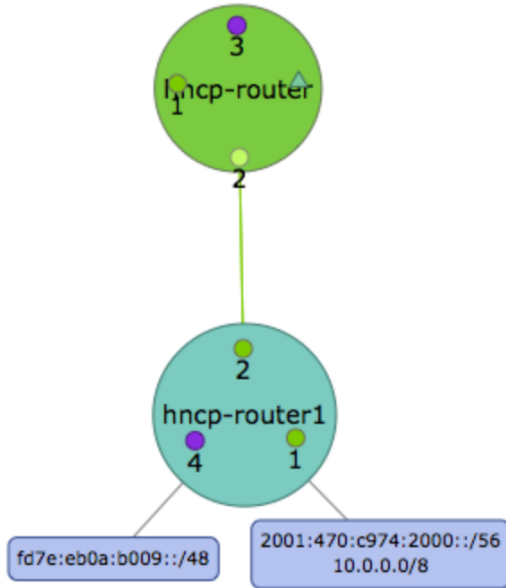Markus Stenberg (Independent)

Moral Support

Ray Bellis (ISC)
Mark Townsley (Cisco)

"Layer 3" Slicing + Auto-Wifi

Implemented on top of hnetd HNCP implementation in OpenWrt, (+904 LOC)

https://github.com/Oryon/hnetd/tree/hackathon

- ## L3-Slicing
  - Separate hosts by putting them in different slices.
  - Auto-create and synchronize ACLs via HNCP
  - Like having a group of hosts on a VLAN, but without a VLAN tag.

- ## Auto-Wifi
  - Synchronization of L3-Slide ID, L2-SSID and Password across all routers within the homenet

Python-based DNCP Prototype

Current Total of 680 LoC for DNCP in Python (+212 today)

https://github.com/fingon/pysyma

PySyMa = "Simple Home Status Protocol" draft-stenberg-shsp

initially: had untested skeleton code pre-hackathon

now: minimal unit tests work, it converges, etc.

however: still some stuff missing (e.g. real i/o, interop testing but it will happen during IETF93, ideally before homenet WG)

Quagga IS-IS hnetd Integration

Quagga already provides implementation for:

- draft-baker-ipv6-isis-dst-src-routing
- draft-franke-isis-over-ipv6-00
- draft-lamparter-isis-p2mp-00

Code is available at:

https://git.netdef.org/projects/OSR/repos/quagga-isis-srcdest/

During Hackathon:

- Integrated with current hnetd on OpenWRT
- Added more knobs & fix bugs