



IETF Hackathon

IETF 121
2–3 November 2024
Dublin, Ireland



KIRA Hackathon Plan

- Scalable Zero-touch routing protocol KIRA implementation in Rust
 - <https://datatracker.ietf.org/doc/draft-bless-rtgwg-kira/>
 - ID-based routing, uses PathIDs for forwarding (all IPv6)
 - Testing in Containernet
- Problem: Debugging forwarding plane consistency
 - When the ping does not work, who is the culprit?
- Approach: Python script to automatically do „ip get route“ in a hop-by-hop manner

KIRA What got done

- Direct KIRA connection between two nodes (bare metal)
- ContainerNet installation running on Ubuntu 24.04
- Performed automated tests
- First idea for the hop-by-hop diagnosis python script
- First code for the script

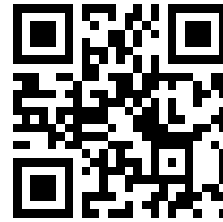
KIRA Wrap Up

Team members:

Just me 😞 (Roland Bless)

- Next steps
 - Code refactoring
 - Align with the latest draft
 - Continue eBPF-based implementation

- General project page
<https://s.kit.edu/KIRA>



- Side meeting/BarBOF:
Wednesday Nov 6th,
19.00–20.00h,
Wicklow Meeting Room 4
(Intro, Q&A, Collaborations)