

# IETF Hackathon: PPR (Preferred Path Routing)

IETF 105  
20-21 July 2019  
Montreal



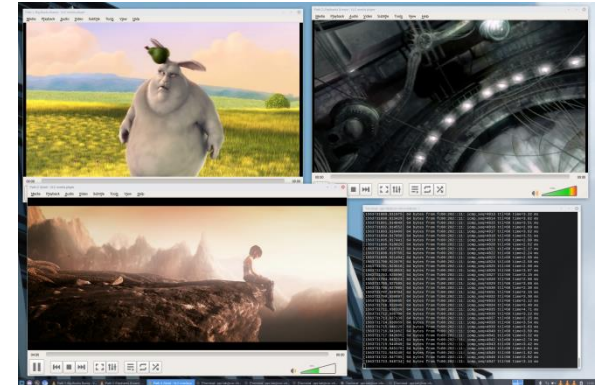
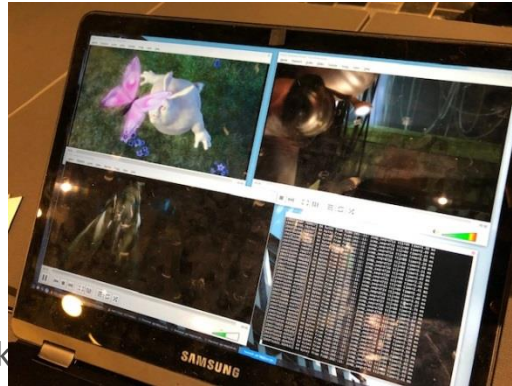
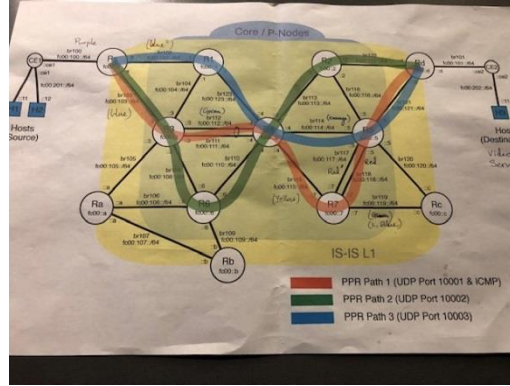
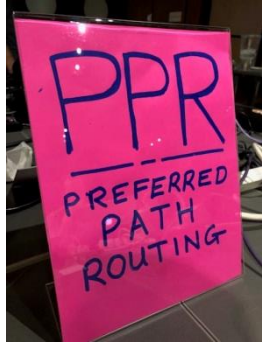
# Hackathon Plan

- Open Source PPR implementation in FRRouting (frrouting.org)
- Working on PPR interop and topology testing
  - Interop testing PPR:  
<https://datatracker.ietf.org/doc/draft-chunduri-lsr-isis-preferred-path-routing/>
  - YANG Model testing:  
<https://datatracker.ietf.org/doc/draft-qct-lsr-ppr-yang/>
- Problems to solve:
  - Shake out the specification issues with PPR draft.
- Techniques used:
  - VMs and auto topology generation
  - Improve Debugging tools

# What got done

- Key Results
  - Wireshark Decoder for PPR TLVs and sub-TLVs in IS-IS
  - Fixed issues with:
    - Added support for Interface PDEs
    - Better processing for new / deleted / modified TLVs
    - New “show isis ppr [detail]” command for troubleshooting
  - wiki page how-to configure and verify PPR operation:  
<https://github.com/opensourcerouting/frr/wiki/PPR---Basic-Test-Topology>

# What we learned – It works



Hack

ng)

# Wrap Up

## Team members:

Uma Chunduri

David Lamparter

Yingzhen Qu

Renato Westphal

Martin Winter

Alistair Woodman

First timers @ IETF/Hackathon: