

Switchdev workshop

nede0x15

Agenda

- Switch ASIC and NOS support updates - Roopa Prabhu (15mins)
- Modular switch support - Jiri Pirko (20mins)
- Marvell switchdev updates - Moti Nisim (15mins)
- Switchdev: the good and the ugly - Alexander Zubkov (20mins)

Switch ASIC and networking feature updates

- Routing:
 - Custom multipath hash policy
 - Resilient hashing
 - Route HW offload failed indication : helps wait for install feature enabled in FRR
- 802.1ad bridges - QinQ - mlxsw
- Pkt sampling enhancements (flow based sampling, latency and queue depth)
- Linux bridge updates
- Marvell - driver gets the devlink functionality. Devlink traps
- Support for custom multipath hash policy (sysctl to control multipath hash fields)
- Link protodown reason : useful if multiple actors in a system want to keep the link down for various reasons like flapping link, redundancy protocol
- Various DSA updates with switchdev

Futures

Routing

- Active backup nexthops

Bridge and igmp

- Many enhancements to bridge igmp snooping code
 - (S,G) snooping support
 - Per vlan igmp snooping support

Scaling vxlan with multiple bridge domains

