

# Netconf 2023

## Kernel \recipes

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David S. Miller, Paris Sept 27, 2023



# Day 1

Alexei on NetConf and where to have it

Alexei on tree management

Toke on XDP

Jesper on page pool

Alexandre on GRO overhead

Jesper on ksoftirq

Paolo on inclusive language, GRO, IP fragmentation, and MPTCP checksums

Jiri on devlink

Florian F on mDNS wakeup and offload

Vladimir Olteon on IEEE 80-2.1CB and ethernet over backplane links

# Day 2

Jakub on development process including pw-bot, CI etc. and queue api

Willem on refactoring complex code, and SO\_DEVMEM direct GPU data placement

Florian W on IPSEC workshop

- Multi cpu spreading for single tunnel acceleration

- Iptables support for offload

- Iptap traffic flow security

- PF Key deprecation

Daniek Borkmann on header/data split, Big TCP and ZC, xdp + bpf\_mprog and per-queue XDP programs

Eric Dumazet on struct file reorganisation, dont clone skbs in NIT tap, deferred wakeups and 3-band FQ w/WRR, UDP accept()

Iwashima-san on SYN proxy at scale with BPF and TCP extended Data offset

Sabrina on sw simulation of HW offloads and netdev features expansion

Saeed on driver reviews, vendor patch submission & delegation, vendor bug reporting, and devlink device orchestration

Simon on modeling DPUs / IPU

David Ahern on using Linux TCP for ML use cases, Big TCP for ipv6, zer cost ounters for userspace monitoring

Florian W on fixing CVEs in nftables

# Thank you

KR conference organizers

Simon H and Paolo A for taking notes

And the rest of the networking development team!