

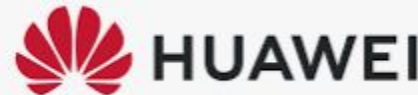
Topics of Probable Collaboration in XDP(eXpress Data Path)

A Short Presentation for Linaro 



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Overview

- ❖ This aims at presenting a rough list of the areas with respect to XDP (eXpress Data Path) which are relevant to deployment of ARM64 servers and are of interest in particular to Huawei.
- ❖ These areas could further be scoped to identify the common grounds, if any, where collaboration between Huawei, Linaro and other members could be established.
- ❖ These are initial thoughts and slides could be incrementally updated later, if required.

Probable Areas

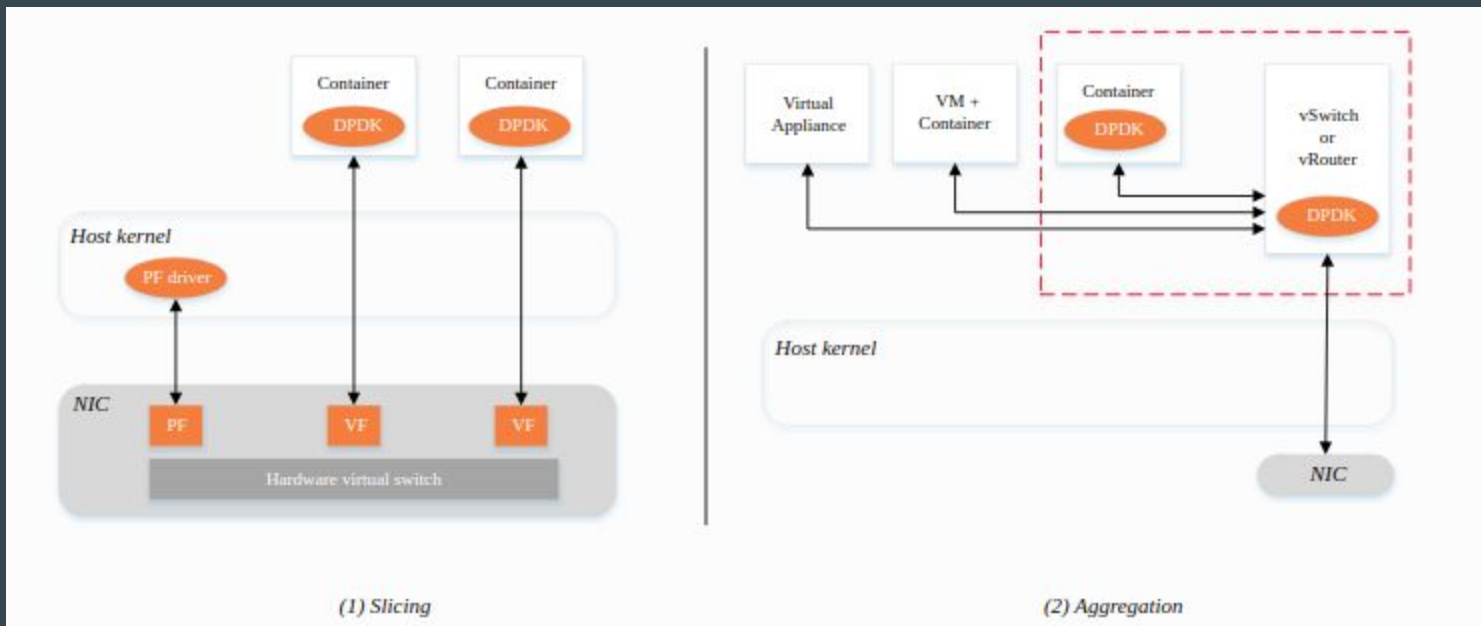
- ❖ Container Networking Scenarios
- ❖ VM Acceleration Support



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Container Networking Scenarios over ARM64

- ❖ OVS-DPDK
- ❖ Interest: In any areas along the path which can be optimized using the eBPF/XDP.



- ❖ Support of Open vSwitch with AF_XDP. Performance problem!

VM Acceleration Scenarios

- ❖ Ethtool configurable Hardware Hints which could be used as XDP metadata.
- ❖ Acceleration of the guest networking virtio-net (for similar known reasons like AF_XDP, receive filtering at guest, Load Balancing etc.)

