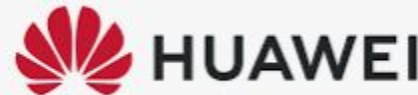# Topics of Probable Collaboration in XDP(eXpress Data Path)

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.

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Probable Areas
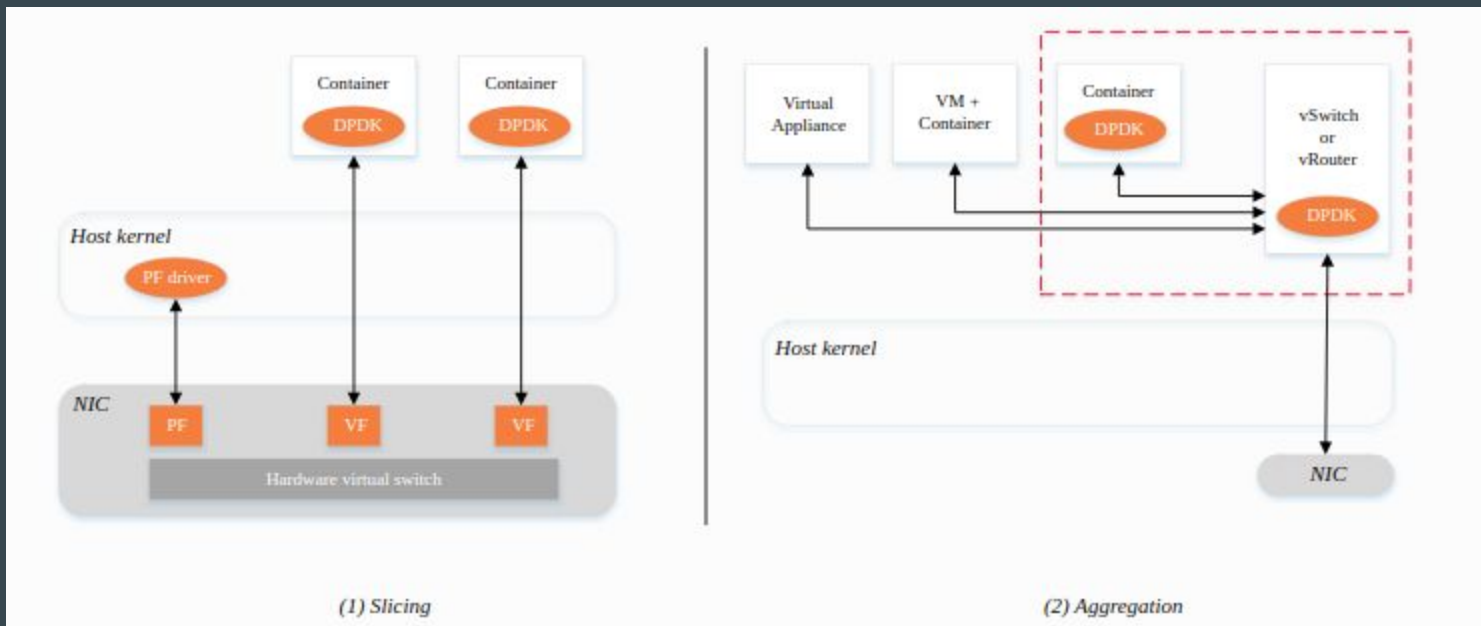
❖   Container Networking Scenarios

❖   VM Acceleration Support

Container Networking Scenarios over ARM64

❖ OVS-DPDK

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

(1) Slicing   (2) Aggregation

❖ Support of Open vSwitch with AF_XDP. Performance problem!

[1] DPDK Container Networking Scenarios

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.)