DPDK Support on Azure

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Agenda

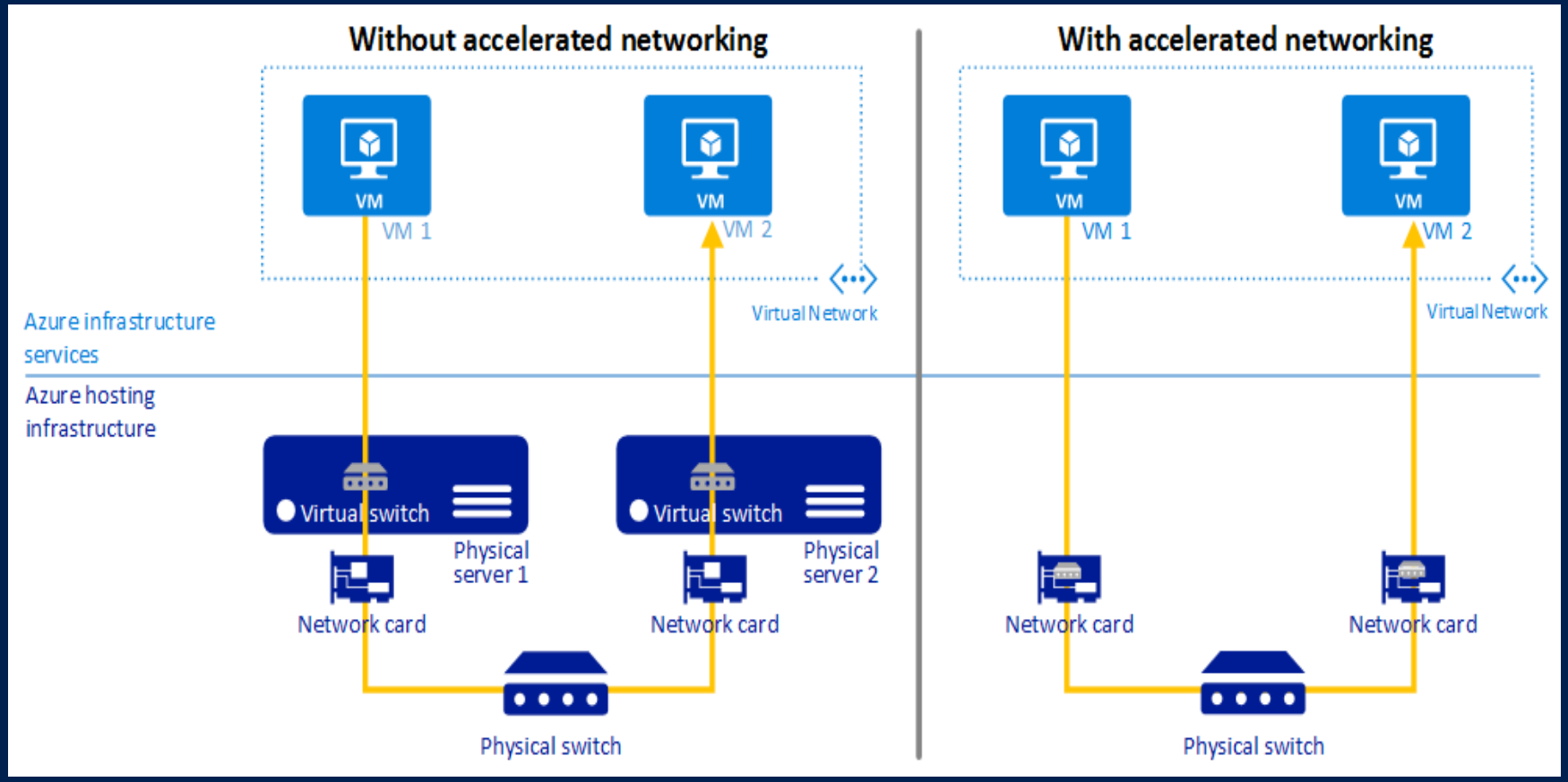
- DPDK support overview
  - Linux Azure networking
  - DPDK Azure
- Availability
- Roadmap

Hyp[illegible]ver[illegible]map (2016)

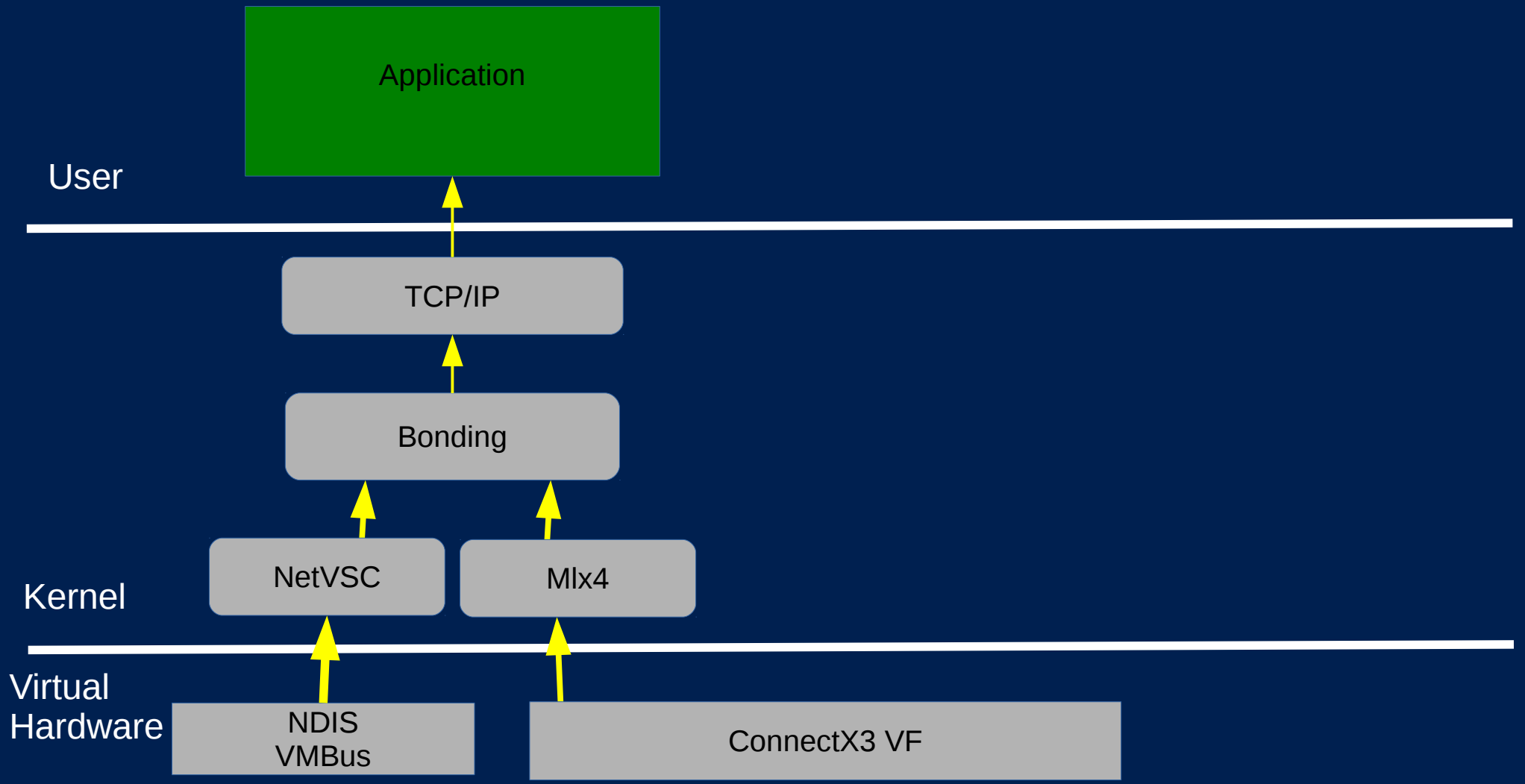
- 0[illegible]sed
  - [illegible]ped[illegible]e as part of vRouter
  - [illegible] 17.0[illegible]
  - [illegible] development
  - [illegible]c functionality
  - [illegible] – 17.07 DPDK
  - [illegible]rmance
  - [illegible]queue
  - [illegible]
  - Int[illegible]sts, examples) etc.

Different,
But
Better.

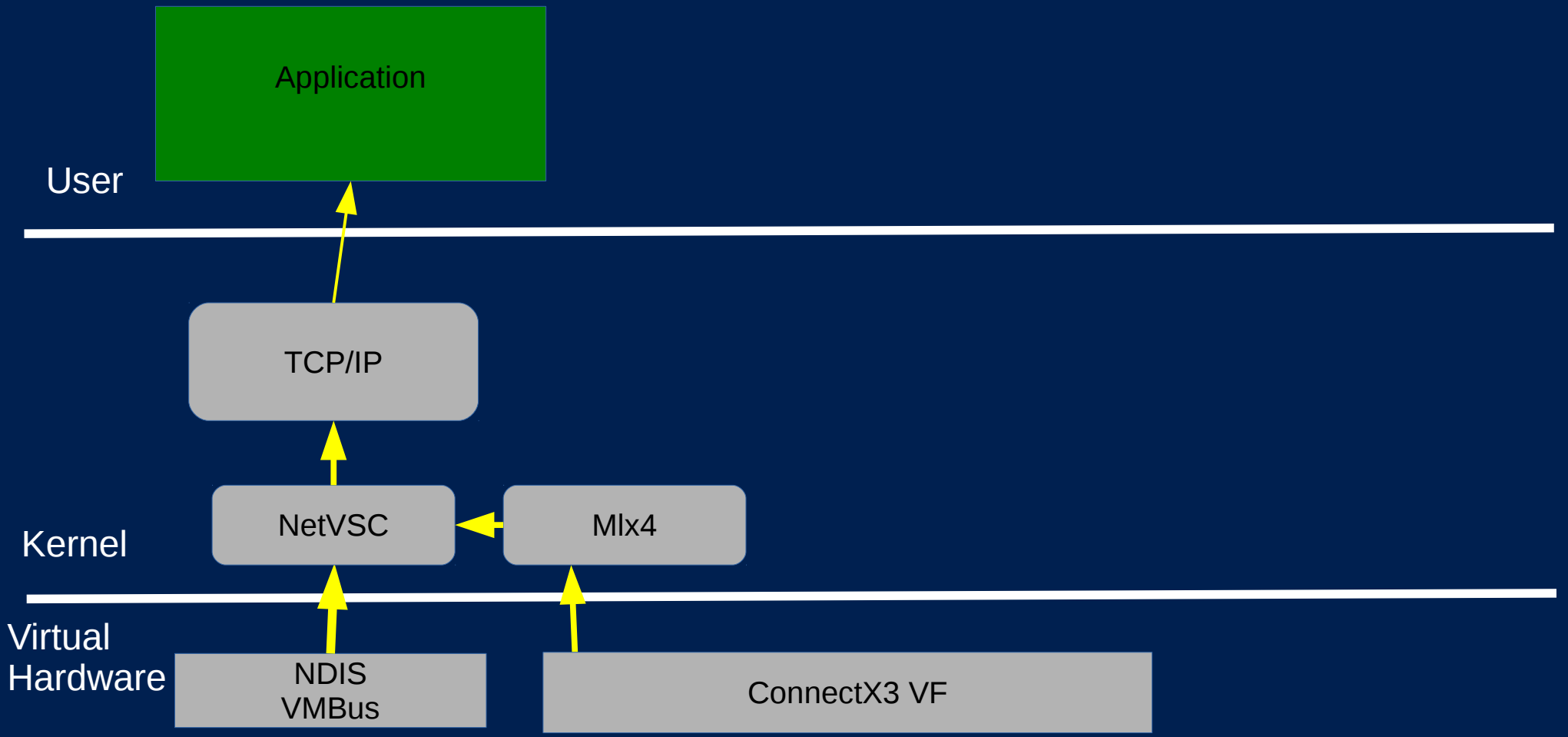
Azure Accelerated Networking



Linux Accelerated Networking



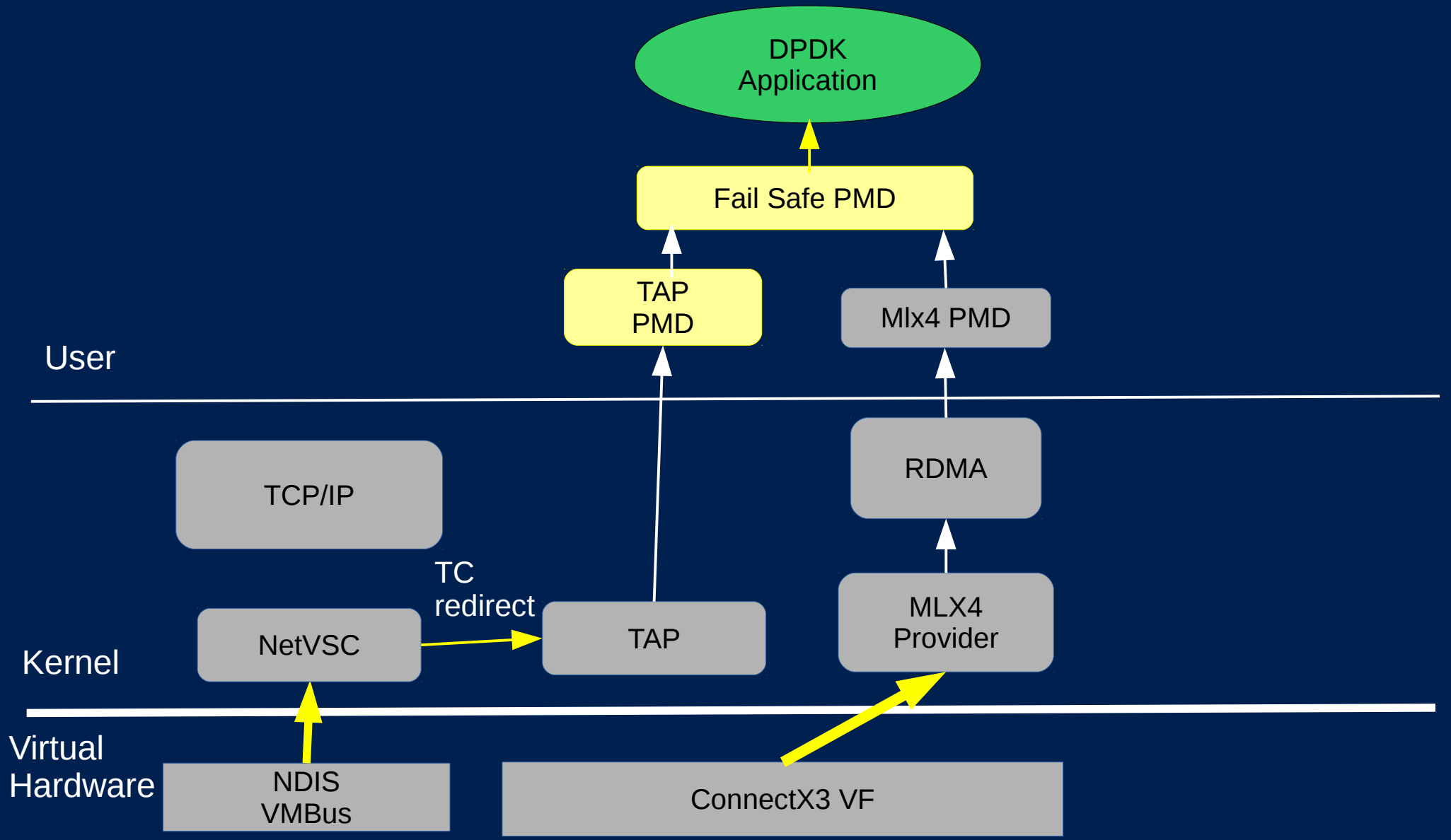
Linux AN Transparent



DPDK Architecture

- Mellanox DPDK drivers
- TAP PMD
- Fail-Safe PMD
- TC redirect glue

DPDK Azure Network



Limitations

- Kernel 4.14 (or backport)
- DPDK 17.11
- Azure
  - Developer preview
  - 8 or more core
  - Creation only
  - Rollout by region

DPDK Azure Roadmap

Today

- Azure AN (preview)
- Ubuntu 16.04 +
- DPDK 17.11
  - TAP PMD
  - Failsafe PMD

Planned

- Azure AN (default)
- All major distro
- DPDK 18.04?
  - Netvsc PMD
  - Transparent VF

Hyper-V and Azure Credits

Mellanox

Raslan Darawsheh

Olga Shern

Eyal Mizrachi

6Wind

Gaetan Rivet

Adrien Mazarguil

Olivier Matz

Pascal Mazon

Thomas Monjalon

Microsoft

Josh Poulson

Madhan Sivakumar

Gabriel Silva

Intel

Ferruh Yigit

Qi Zhang

Keith Wiles

Brocade

Chas Williams

Eric Kinzie

Jan Blunck

Nachiketa Prachanda

Sven-Thorsten Dietrich

Wen Chiu

Thank you