OPI Event – Breakout Session #3

Lifecycle / APIs / Provisioning / Mgt. Across Infrastructure Devices

High level topics for discussion

- Discovery
- Inventory
- OS Provisioning
- Boot sequencing & Crash recovery
- Lifecycle & Updates
- Deploy & Scheduling apps / services
- Monitoring & Telemetry
- Security

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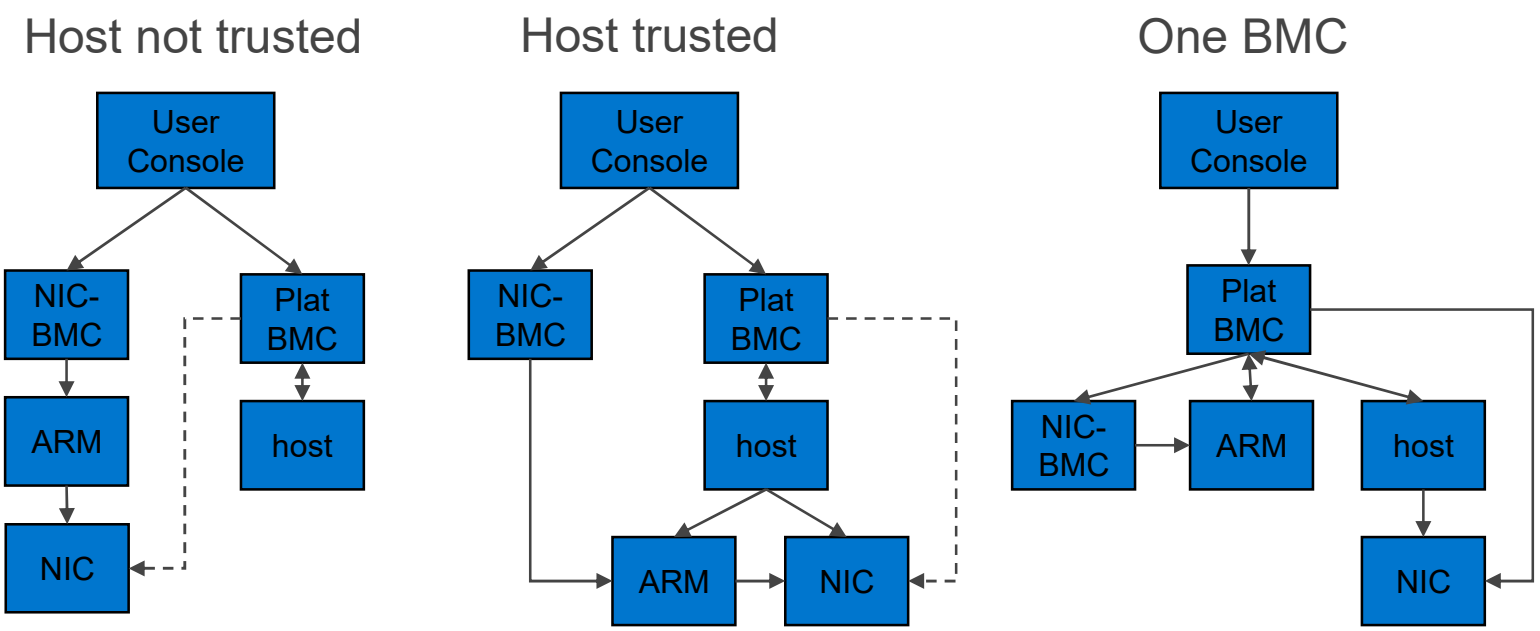
Some Management Hierarchy Options



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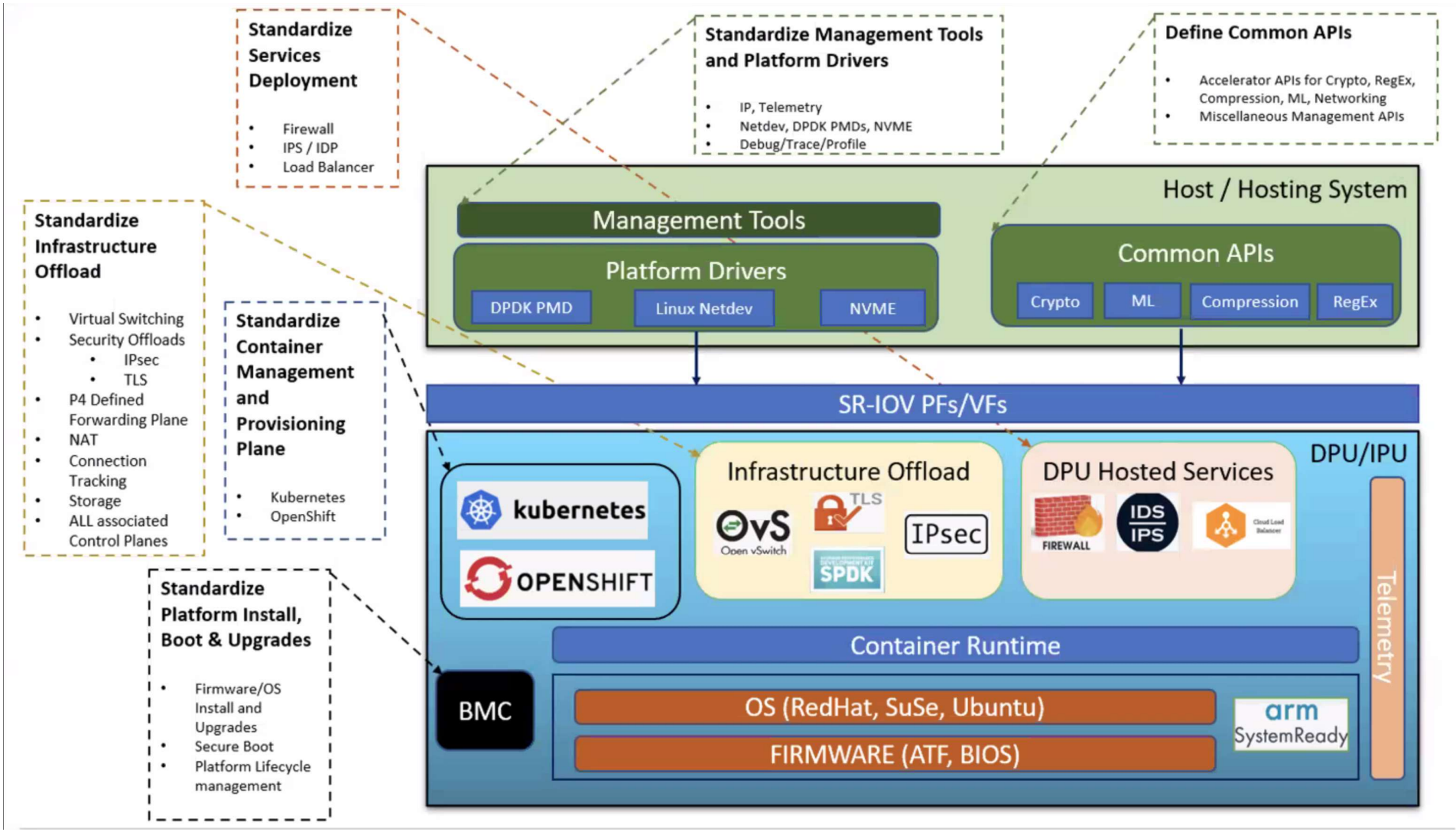
Standardize Services Deployment
Firewall
IPS / IDP
Load Balancer
Standardize Management Tools and Platform Drivers
IP, Telemetry
Netdev, DPDK PMDs, NVME
Debug/Trace/Profile
Define Common APIs
Accelerator APIs for Crypto, RegEx, Compression, ML, Networking
Miscellaneous Management APIs
Standardize Infrastructure Offload
Virtual Switching
Security Offloads
IPsec
TLS
P4 Defined Forwarding Plane
NAT
Connection Tracking
Storage
ALL associated Control Planes
Standardize Container Management and Provisioning Plane
Kubernetes
OpenShift
Standardize Platform Install, Boot & Upgrades
Firmware/OS Install and Upgrades
Secure Boot
Platform Lifecycle management
Host / Hosting System
Management Tools
Platform Drivers
DPDK PMD
Linux Netdev
NVME
Common APIs
Crypto
ML
Compression
RegEx
SR-IOV PFs/VFs
DPU/IPU
kubernetes
OPENSHIFT
Infrastructure Offload
OvS
Open vSwitch
TLS
IPsec
SPDK
DPU Hosted Services
FIREWALL
IDS
IPS
Telemetry
Container Runtime
BMC
OS (RedHat, SuSe, Ubuntu)
FIRMWARE (ATF, BIOS)
arm
SystemReady

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