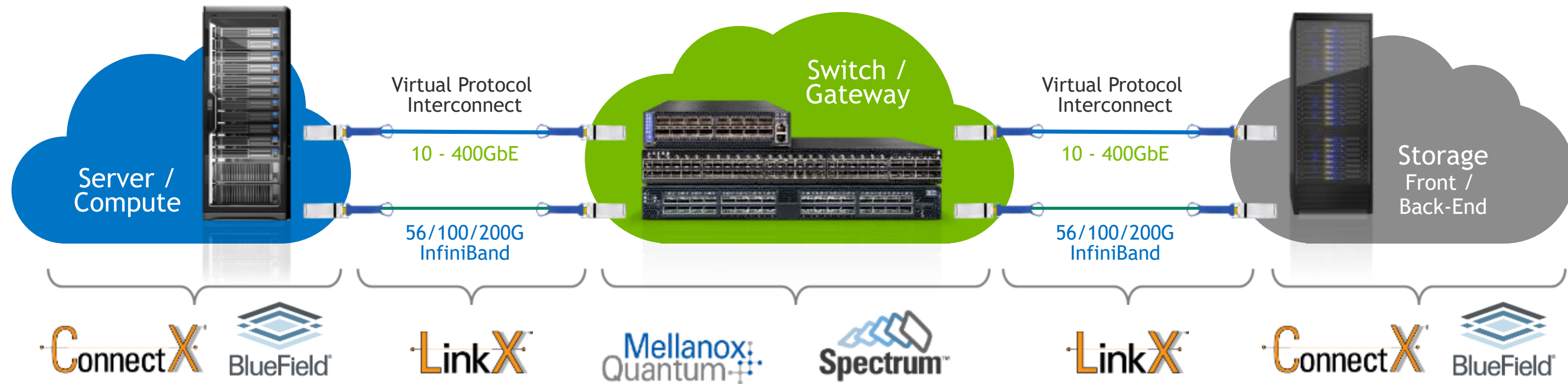
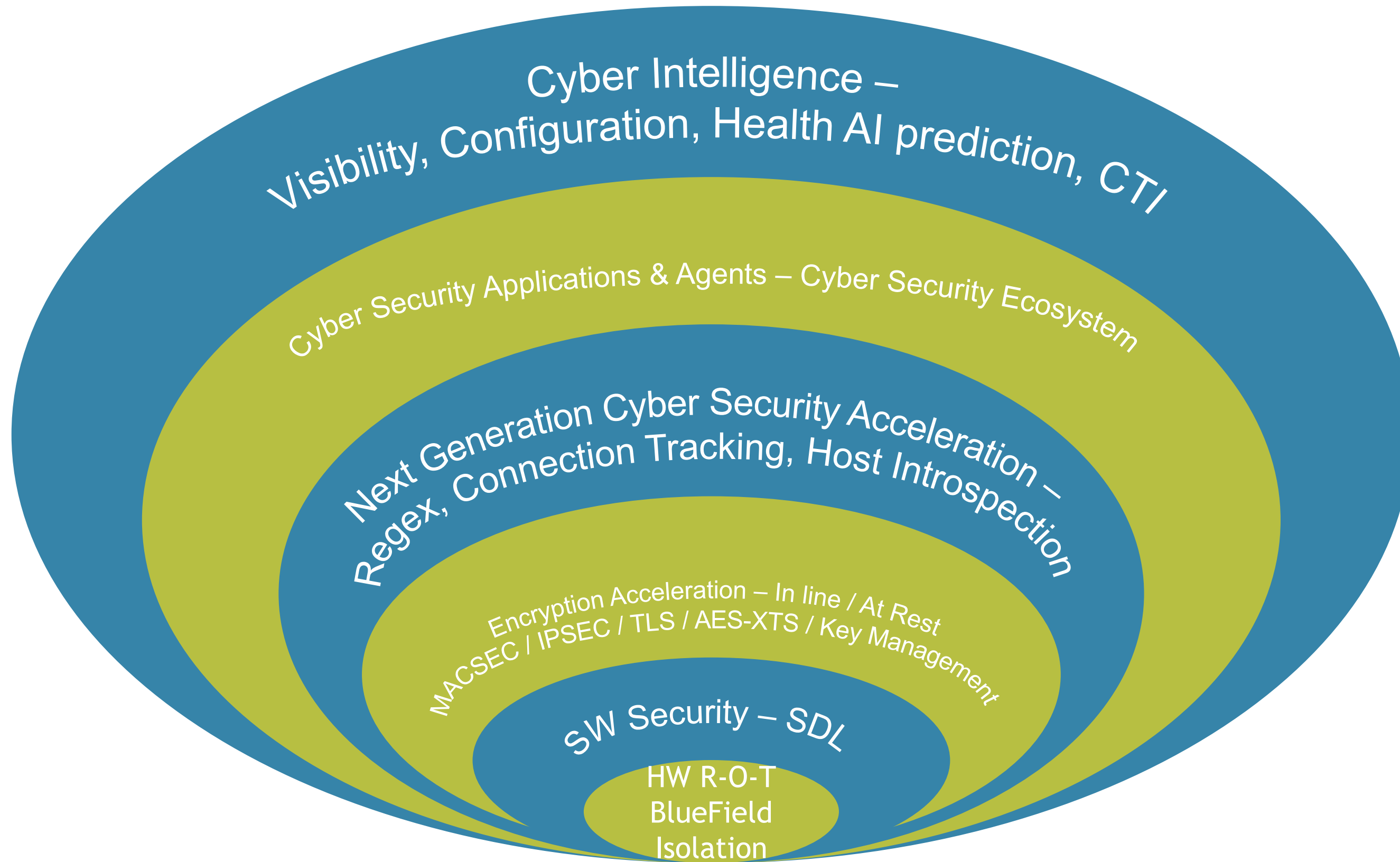


LEADING SUPPLIER OF INFINIBAND AND ETHERNET END-TO-END INTERCONNECT SOLUTIONS

The Smart Choice for Intelligent Compute and Storage Platforms



NVIDIA MELLANOX CYBER SECURITY SPHERES



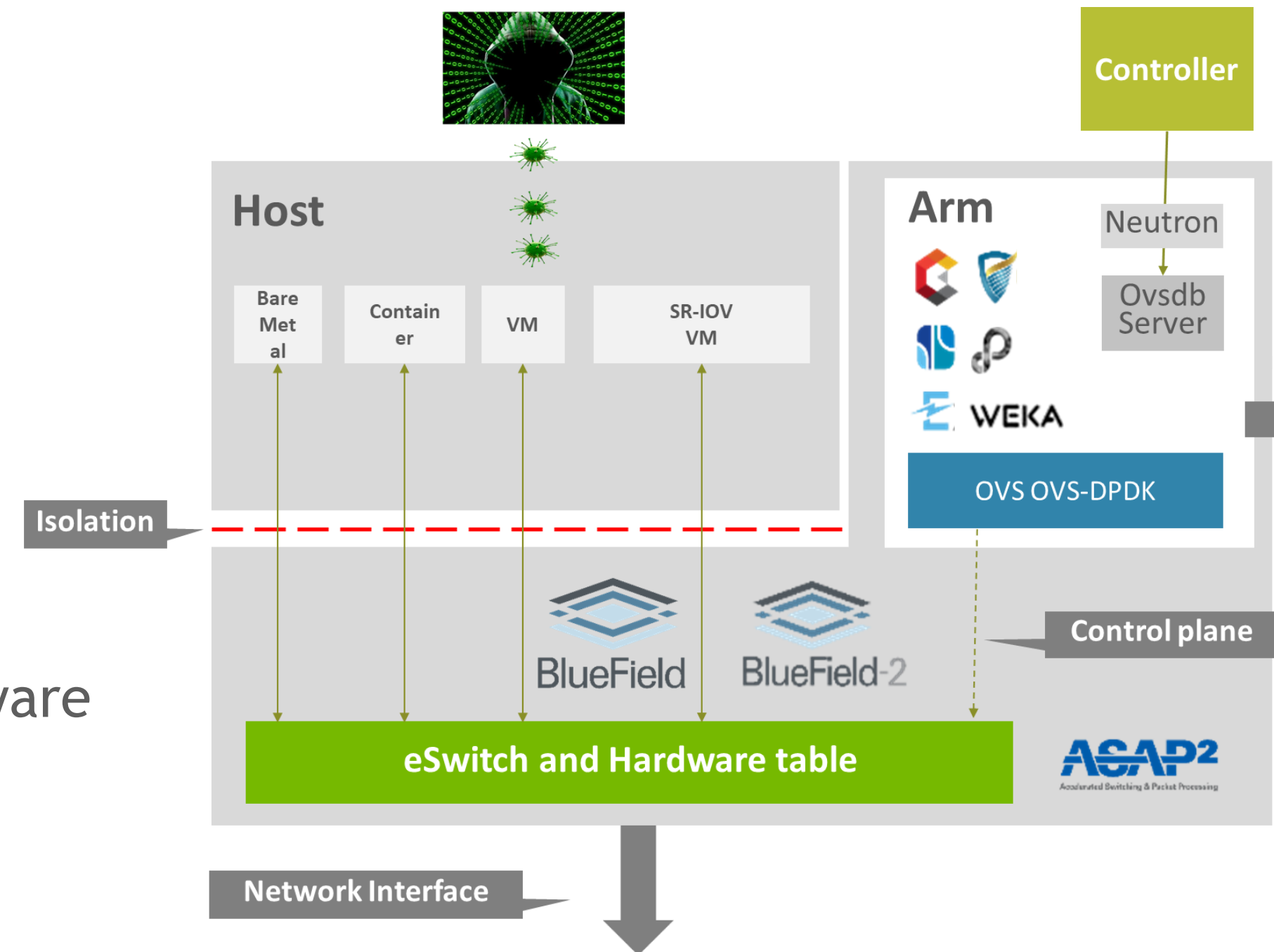
BLUEFIELD FUNCTIONAL ISOLATION

A Computer in front of a computer

Infrastructure functions fully isolated in SmartNIC

Functionality runs secure in separate trust domain

- Enforces policies on compromised host
- Host access to SmartNIC can be blocked by hardware



BLUEFIELD-2 INLINE ENCRYPTION- IPSEC/TLS

Lower CPU utilization with significant higher performance

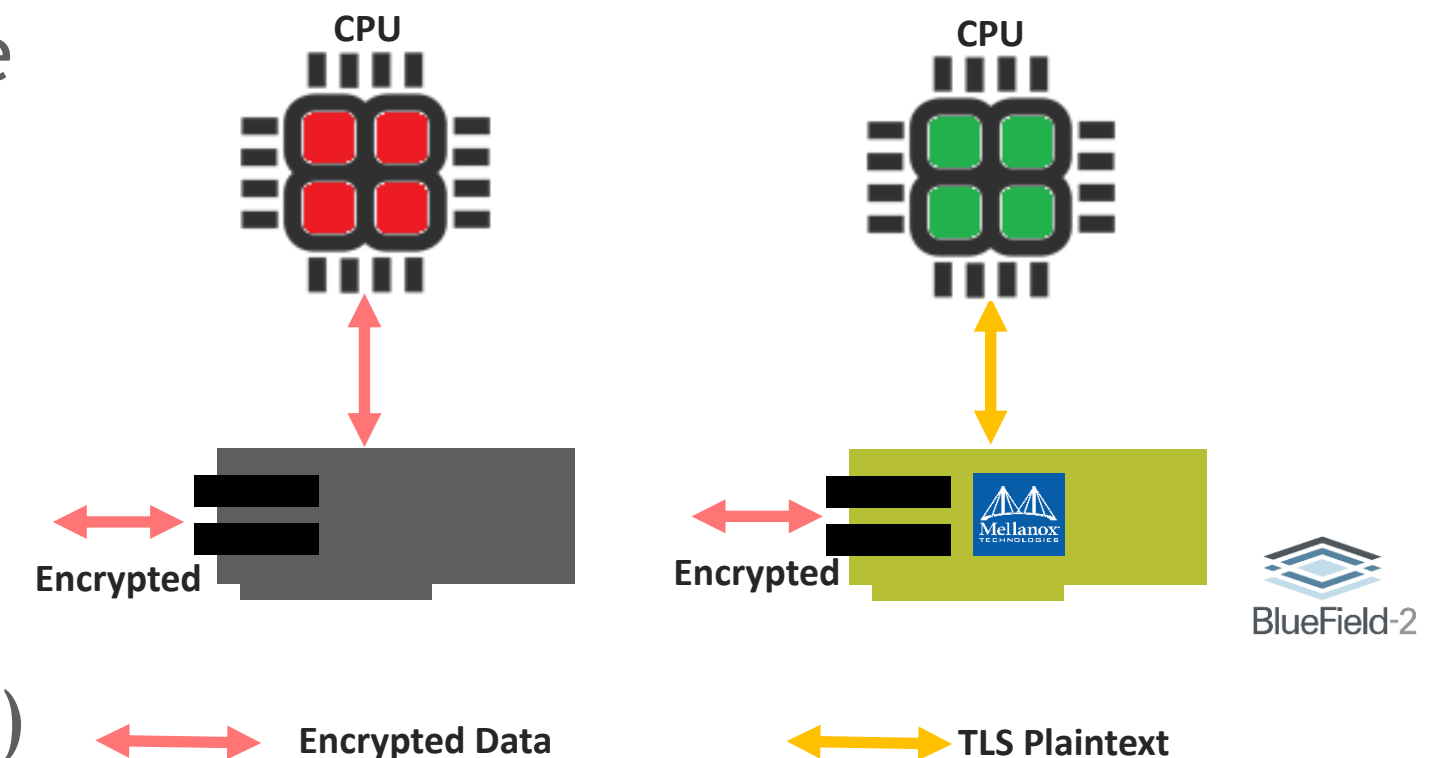
- Encryption/decryption at 100G (IPsec) or 200G (TLS)

Inline offload at the Application level

- Removes software overhead of invoking accelerator
- Inline with other offloads (tunneling, IPsec, SR-IOV etc.)
- Independent of Host interference

Cipher: AES-GCM 128/256bit keys

Supports TLS1.2 and TLS1.3



BLUEFIELD-2 KTLS OFFLOAD PERFORMANCE

Up to 66% Improvement in CPU Utilization with transmit offload

Offload recovers and improves TLS’s CPU overhead

Significant CPU Savings - more than 3 Xeon E5 cores can be saved

