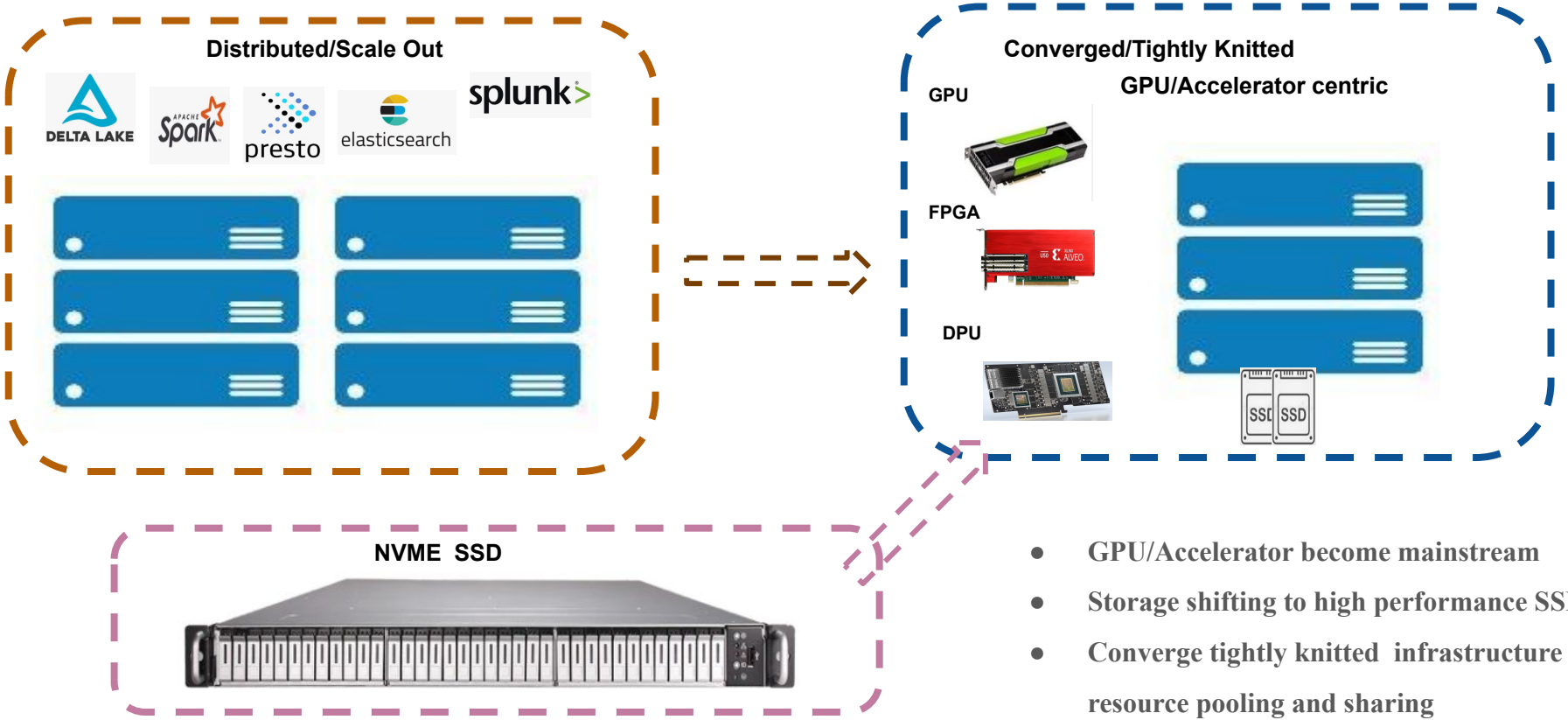
TierZeroFlash

Computing infrastructure landscape evolving

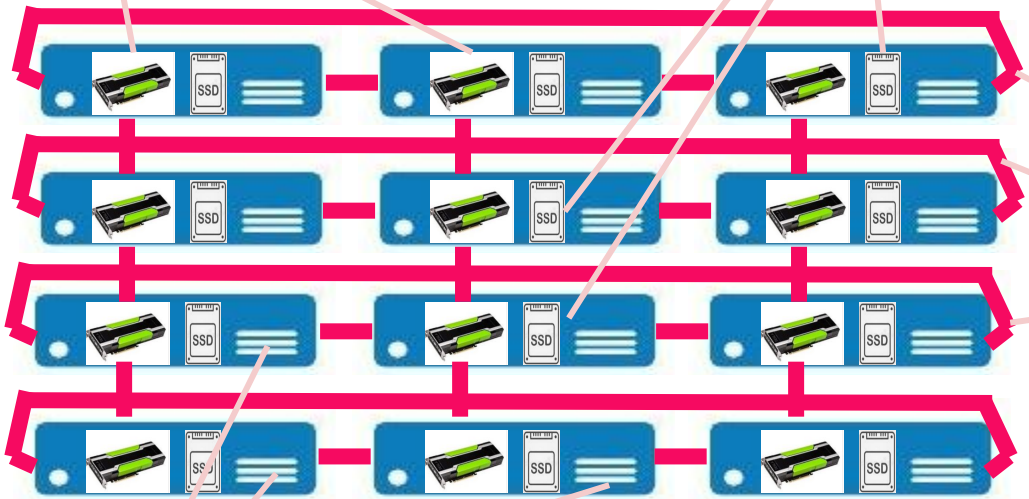


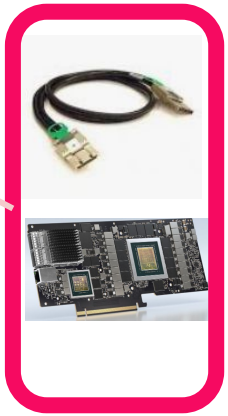
- GPU/Accelerator become mainstream
- Storage shifting to high performance SSD
- Converge tightly knitted infrastructure for resource pooling and sharing

TeirZeroFlash extends PCI Express for server interconnect

GPU pooling
DIstributed AI training
HPC computing

NVME SSD pooling
High performance storage

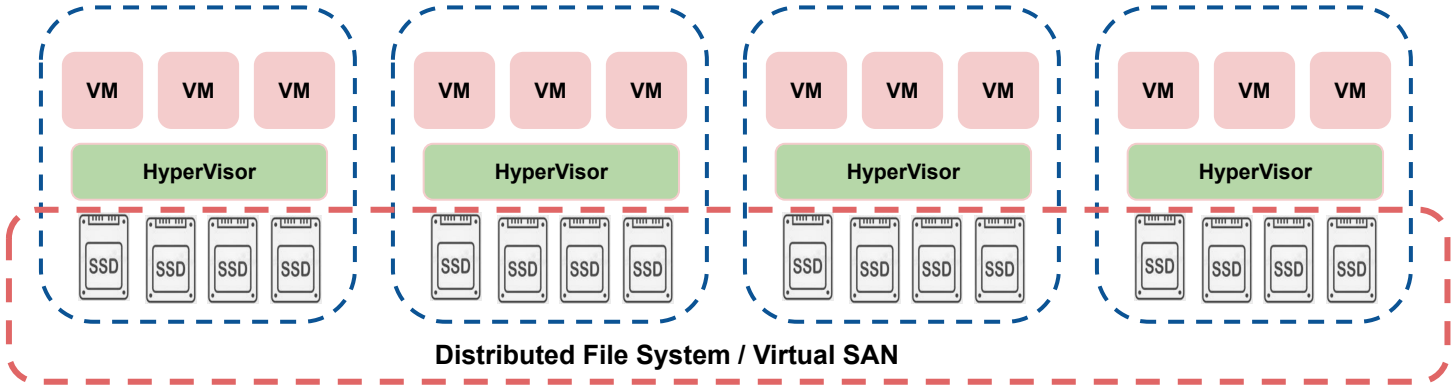




Memory pooling
Big Data
VR/AR/Rendering

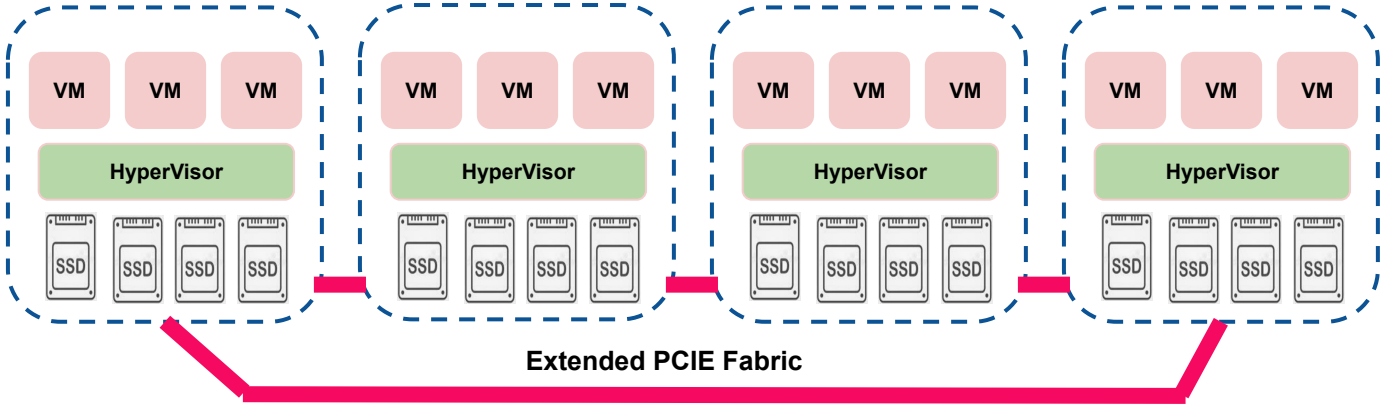
Lattice Fabric: Flexible composition, High performance, High utilization

TierZeroFlash – Converge without compromise



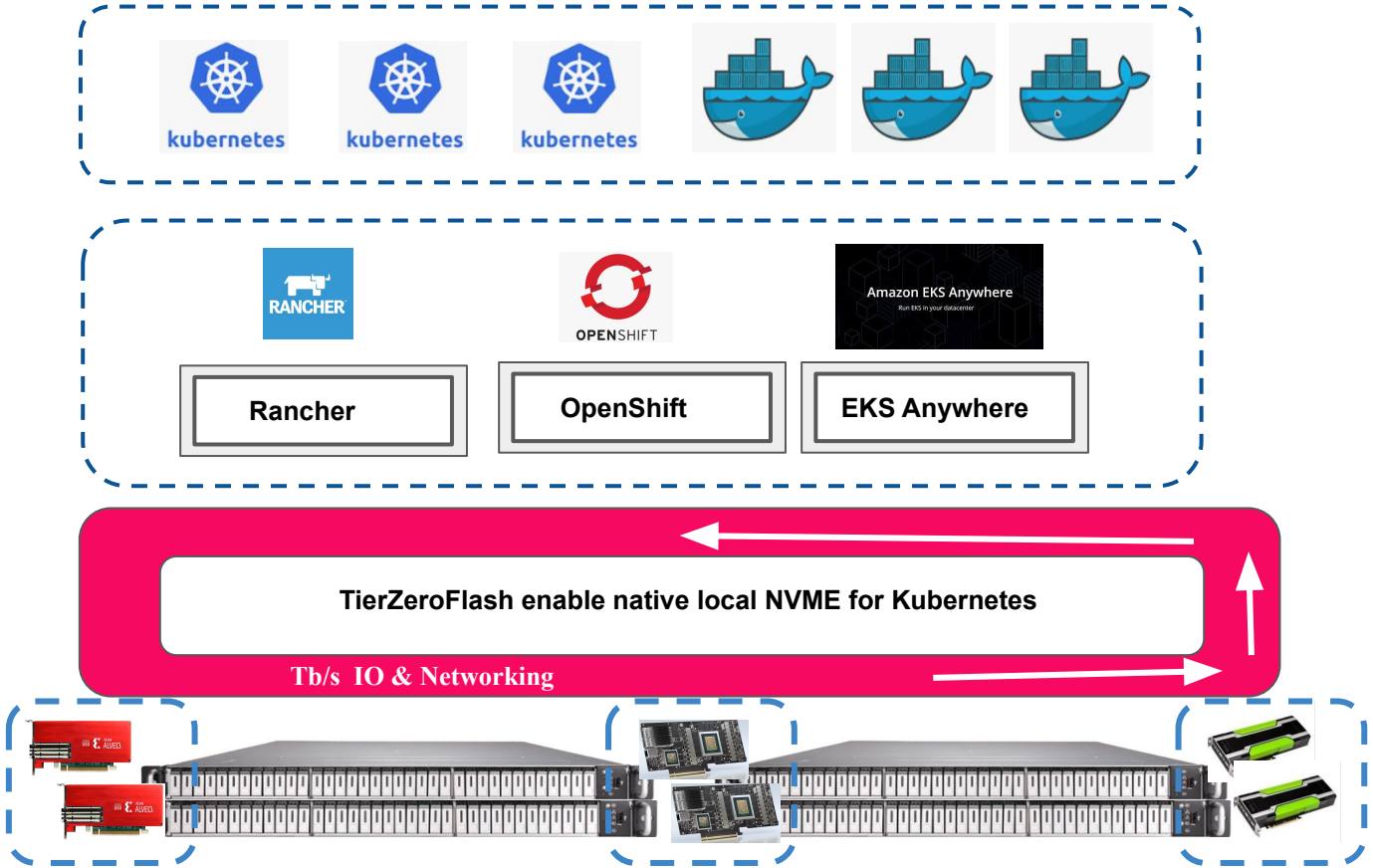
- Traditional HCI relies on DFS or VSAN for resilience and high availability
- Data distributed/replicated to multiple nodes through network
- **Network significantly slows down native NVME SSD performance**
- Traditional HCI architecturally not suitable for HPC or AI workload

TierZeroFlash – Converge without compromise

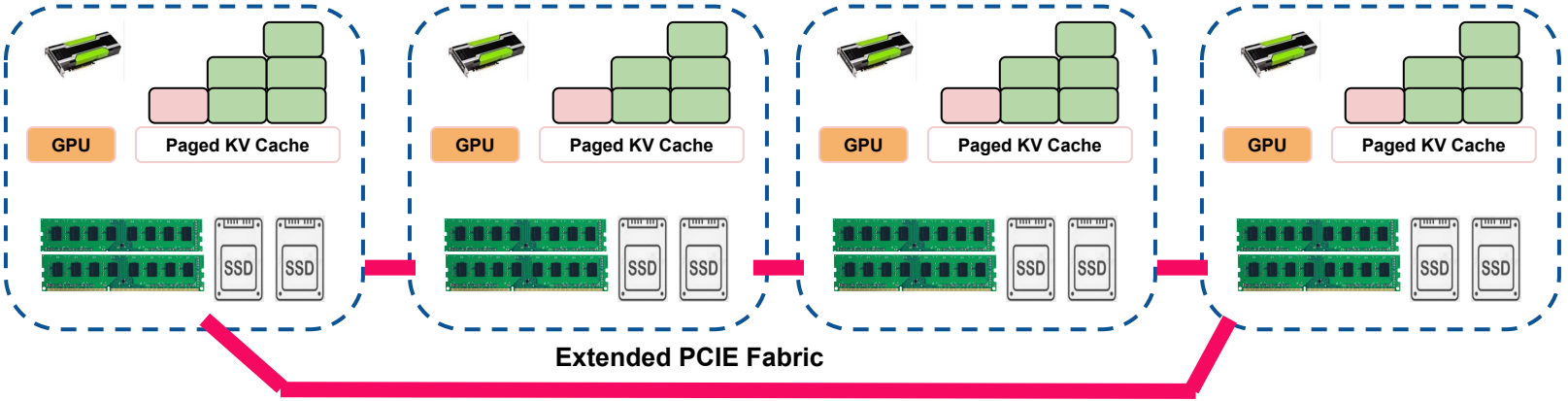


- Extended PCIE fabric makes NVME SSD from different nodes appears to be “local”
- Native NVME SSD performance preserved across the whole cluster
- RAID across nodes protect not only storage but also the computing node and the VM

TierZeroFlash – Revolutionize Kubernetes Storage



TierZeroFlash Distributed KV Cache done right for LLM



- Extended PCIE fabric provide pooling for memory and SSD
- Data movement all in hardware, minimal driver/FW involvement
- Big improvement in bandwidth and latency compared with traditional RDMA

TierZeroFlash integrating with any platform

- **Extended PCIE fabric could turn any server platform into high performance cluster**
- **All Flash Array built from standard off shelf components**
- **Converged and native SSD performance across cluster**

TierZeroFlash Computing infrastructure evolving