

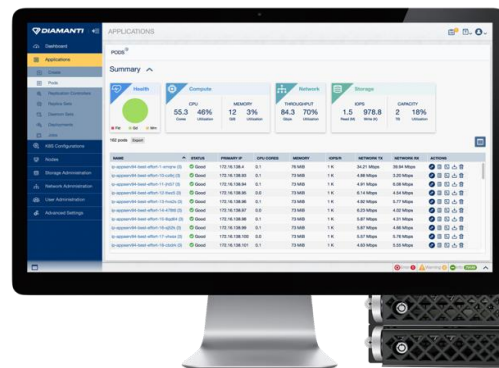


Bare Metal HCI for Red Hat® OpenShift®

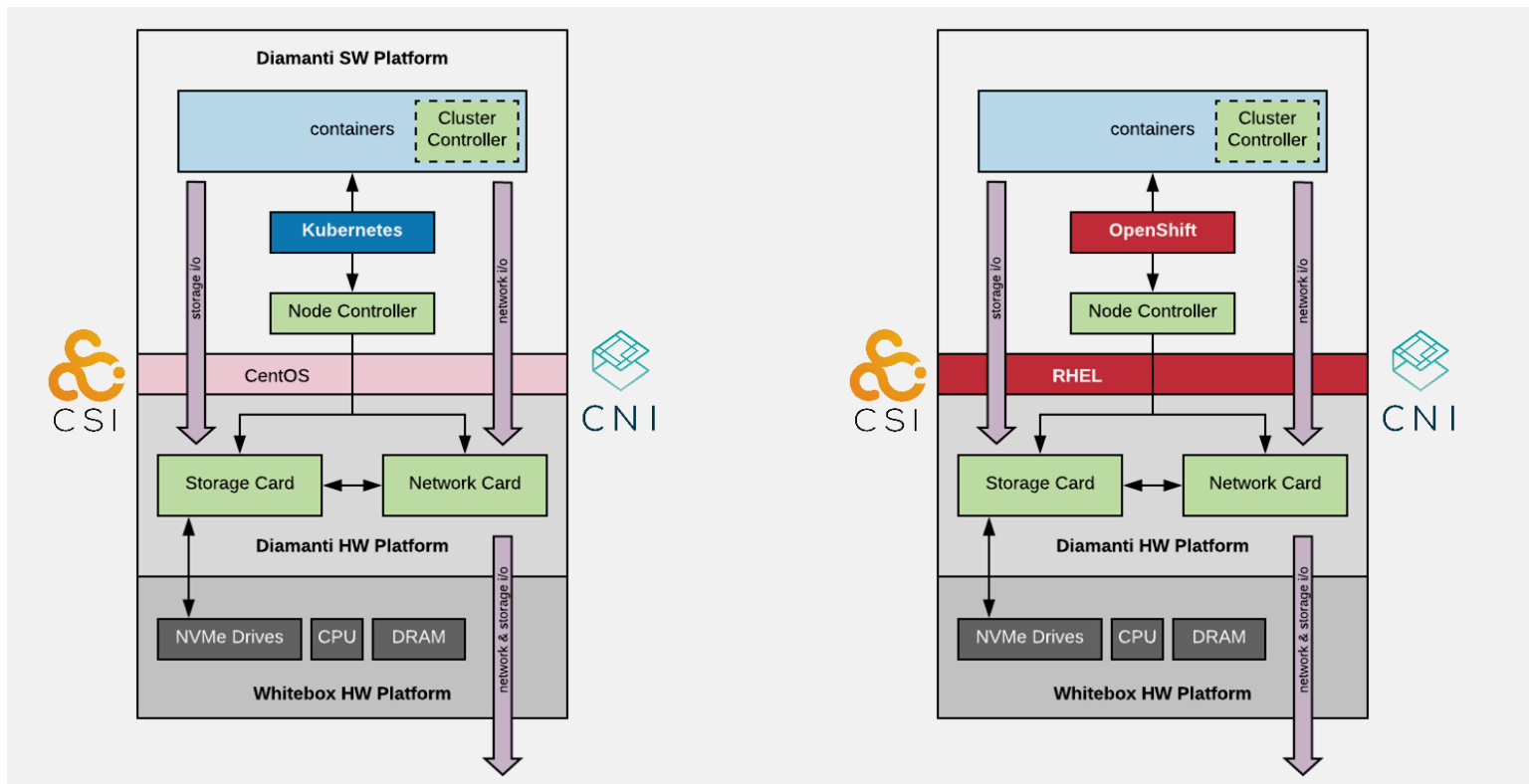
Hiral Patel, Founding Engineer

Diamanti D20 RH for Red Hat® OpenShift®

- Diamanti + Red Hat = best of breed Kubernetes platform
- Industry leading container platform with built-in:
 - Hardware offloads
 - Guaranteed QoS
 - Disaster Recovery (DR)
 - Data Protection (DP)
- Shipping with OCP 3.11
- OCP 4.x in 2020
- 24x7 full-stack support by Diamanti



Deploying Kubernetes on Hyperconverged Infrastructure (HCI)



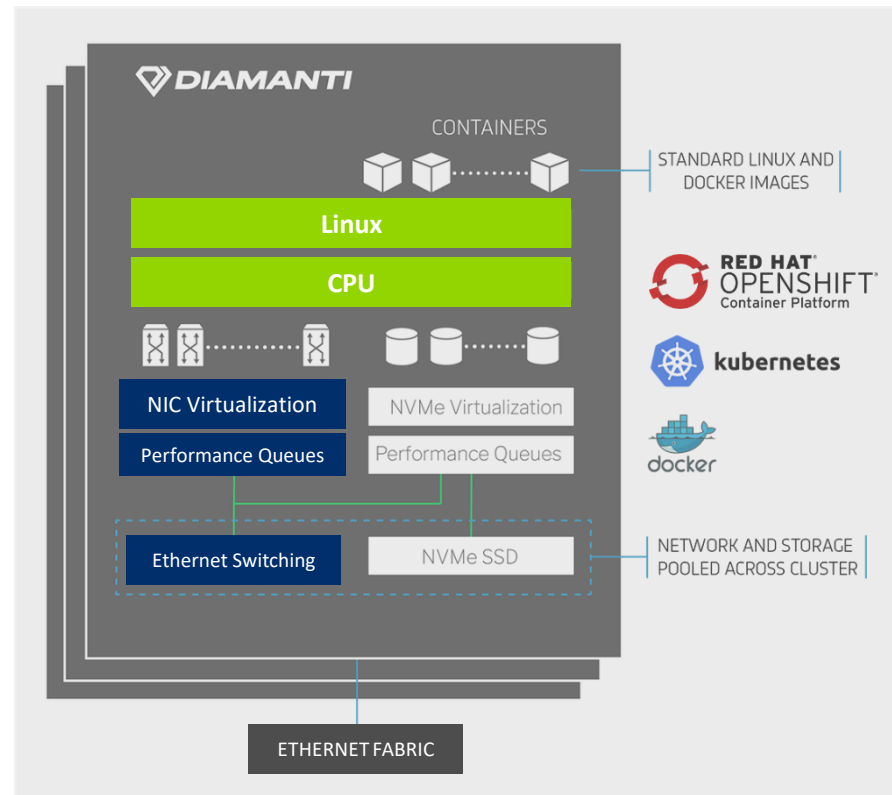
Diamanti + Open Source Kubernetes

Diamanti + Red Hat OpenShift

CNCF Webinar: <https://www.cncf.io/webinars/challenges-in-deploying-kubernetes-on-hyperconverged-infrastructure-hci/>

I/O Hardware Offloads: How and Why?

- Complete I/O isolation at VF level using SR-IOV
- Separate Management and Data plane
- Guaranteed SLA's at firmware level to avoid noisy neighbor problems & denial of service attacks
- IPsec and SSL encryption/decryption offload in hardware



> 95% CPU available for applications

Lowest Total Cost of Ownership

Diamanti D20 RH for Red Hat® OpenShift® Benefits



x86 bare-metal hyperconverged hardware



Low-latency NVMe flash storage



Plug-and-play overlay-less networking



OpenShift Container Platform




24x7 full-stack support

+1M IOPS
per node

< 100µs
deterministic
latency

Up to
32TB
NVMe per node

10x-30x
faster than
competing HCI

- 
- Simplification
 - Consolidation
 - Throughput
 - Performance
 - TCO

Customer Deployments on Diamanti



15X FASTER compared to virtualized infrastructure



1M IOPS per node (1U), **200K transactions** per second (TPS) @ less than **1 ms latency** with ZERO caching (read-only workload)



24X FASTER data ingestion; **1TB per hour** ingestion rate



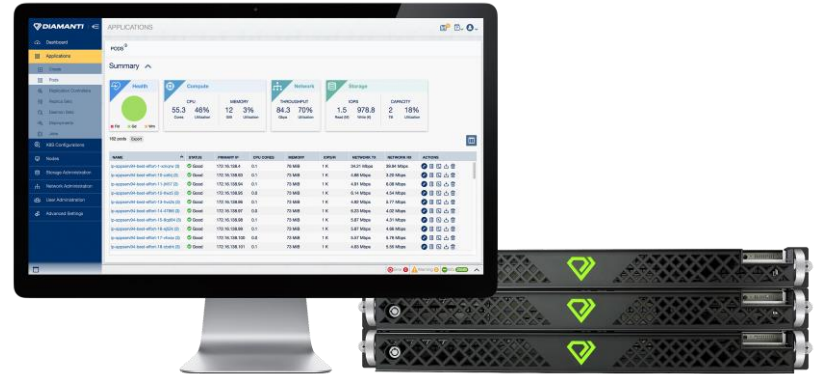
9 MILLION messages per second @ **10 milliseconds** latency



30% + reduction in CI/CD pipeline execution times

Resources

- Visit www.diamanti.com
- White papers, webinars, tutorials, blogs
- Request a demo at demo@diamanti.com
- CNCF Webinar: <https://www.cncf.io/webinars/challenges-in-deploying-kubernetes-on-hyperconverged-infrastructure-hci/>
- <https://landscape.cncf.io/>



Visit Diamanti at KubeCon

- Booth #S64
- Learn more about Diamanti's solutions
- Beer kegger on Tuesday during reception
- Lots of giveaways throughout the event





Thank You