

## WHY PIVOT3?

# TOP 10 REASONS TO MODERNIZE YOUR DATACENTER WITH THE POWER OF 3

A successful implementation of hyperconverged infrastructure (HCI) solutions largely depends on its underlying architecture and whether it can deliver the right combination of performance, scale and efficiency. While the first generation of HCI simplified IT operations for a limited number of applications, it was not designed to support multiple, mixed workloads, deliver predictable performance, or automate resource management to meet modern business demands. Pivot3 is ushering the next generation of hyperconvergence with solutions that are performance-architected, priority-aware, and policy based. Fast, simple, smart. That's the power of 3.

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### What Makes Pivot3 Different?

#### 1. Advanced Quality of Service

Pivot3's fifth generation quality of service (QoS) engine enables IT to confidently consolidate multiple mixed workloads on a single infrastructure and deliver guaranteed, predictable application performance. Simple, pre-defined policies ensure IOPs, throughput, latency and data protection are all easily applied and managed. Through automated resource prioritization, mission-critical applications take performance priority during times of resource contention and real-time data management ensures the performance targets are automatically sustained, giving IT the confidence to guarantee service for existing and newly deployed workloads.

#### 2. NVMe PCIe Flash Performance

Pivot3's advanced QoS engine is not only policy-based and priority-aware, it leverages low latency NVMe PCIe flash to deliver breakthrough performance to critical applications. With the addition of NVMe PCIe flash in Pivot3's HCI Accelerator nodes, organizations can consolidate performance- and latency-sensitive applications onto HCI at a rate that is 450-percent faster than SATA SSD and 119-percent faster than SAS SSD.

#### 3. Multi-Tier Architecture with Read and Write Caching

Pivot3 uses NVMe PCIe Flash, Memory and SSD caching for both reads and writes, delivering industry-leading performance to your applications. Simple, pre-defined policies automatically manage data placement and prioritization in real-time, ensuring that your applications get greater levels of performance and lower latencies for an agile, high-performance datacenter infrastructure.

#### 4. Simple, Policy-Based Management

Policy-based management ensures that all applications get storage, compute and network resources they require, without constant and complex application rebalancing.

## 5. True Storage Resource Aggregation

Pivot3 creates an aggregated pool of storage resources to ensure that every drive in every node contributes to the performance of every storage volume, delivering better performance, smaller datacenter footprints and lower CAPEX and OPEX.

## 6. Predictive, Linear Scalability

By scaling predictably and linearly, Pivot3 customers can accurately and efficiently forecast future infrastructure growth. This allows a customer to move away from the traditional five-year infrastructure forecasting for growth and move to a “just in time” provisioning model. Customers have the choice between OPEX or CAPEX growth models to further align forecasts to financial modeling.

## 7. Patented Erasure Coding

Pivot3’s patented erasure coding yields up to 90% storage efficiency, far more than traditional replication or RAID based solutions. Greater storage efficiency means a smaller datacenter footprint and a reduction in CAPEX and OPEX.

## 8. In-Line Data Services vs. Post Data Services

By delivering data services in-line, Pivot3 gives system resource priority to your applications. With more available resources, Pivot3 customers can achieve a greater VM density and reduce the number of nodes required in the datacenter. For example, HCI solutions that use post-process dedupe consume system resources after the data hits the disk. Pivot3 immediately begins data-reduction as it is ingested into the system, with zero overhead.

## 9. Flexible and Seamless Integration with Existing Servers and Storage

By integrating through standard iSCSI storage presentations, Pivot3 eliminates ‘rip and replace’ concerns, allowing for easier adoption of HCI, the ability to extend the ROI of existing server and storage systems, and to retain the choice of how your datacenter grows.

## 10. Centralized Management via Deep vSphere Integration

By working through a single common interface, Pivot3 enables simple infrastructure management through a well-known and familiar management interface, saving the IT Administrator time when first deploying the HCI solution.

### About Pivot3

Pivot3 brings simplicity and savings to the enterprise datacenter by integrating storage, compute and networking on commodity hardware under an easy to use single-pane-of-glass. Our next-generation hyperconverged platforms are natively designed with policy-based Quality of Service and NVMe flash acceleration to enable IT to run multiple, mixed workloads on a single infrastructure while guaranteeing service delivery to the applications that power business results. With over 2,000 customers in 54 countries, and over 18,000 hyperconverged deployments in healthcare, government, transportation, security, entertainment, education, gaming, retail and more, Pivot3 is defining the future of autonomous cloud computing with smarter infrastructure solutions.

### About Copper River Technologies

Copper River Technologies empowers Public Sector and Enterprise organizations to reimagine the possibilities of their IT infrastructure. Our expertise in emerging technologies allows us to design and deliver leading edge products and services that transform traditional, legacy networks into modern, secure, and resilient IT architectures. As a Federally recognized, Alaskan Tribal-Owned, 8(a) Certified Entity, our clients benefit from our unique, cost-effective procurement advantages which enable timely fulfillment of any IT requirement. Our proven expertise in implementing advanced solutions in Cyber Security, Cloud, Mobility, and Enterprise Architectures is why our clients depend on us to design and deliver innovative, secure, and scalable IT networks. Learn more [CopperRiverTech.com](http://CopperRiverTech.com).