

Pivot3 All-Flash HCI Node



High-performance hyperconverged infrastructure



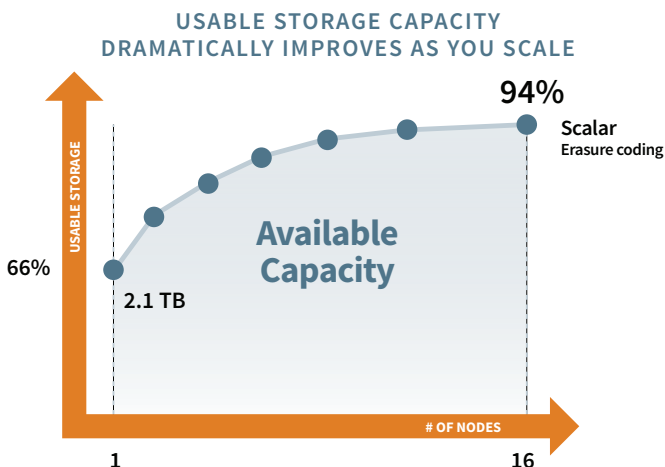
- Powered by vSTAC erasure coding
- Hyperconverged compute and storage resources
- 99.9999% availability for continuous performance
- Designed for demanding enterprise-class workloads
- Pre-validated system configuration

The Building Block of the Data Center of the Future

Pivot3's All-Flash HCI nodes enable a radical rethink of IT infrastructure by delivering maximum, storage efficiency, system fault tolerance and compute performance in a homogenous, scalable, appliance model. Designed for high performance workloads, the All-Flash HCI node helps organizations of all sizes properly address the many challenges created by à la carte architectures and invest in a future where IT can focus on driving business outcomes rather than managing hardware. The result is a simpler, more resilient, easily managed, and more cost-effective data center.

Flash-Optimized Hyperconvergence

Pivot3's hyperconverged infrastructure technology is uniquely suited to getting the most out of advanced flash storage technology by combining the high IOPS performance of SSDs with maximum storage efficiency of vSTAC OS. The result is an enterprise IT platform that offers both power and density, making it ideal for data center consolidation and running high-performance workloads. Pivot3 uses erasure coding to form the patented HyperSAN, which achieves very high fault tolerance without resorting to resource-intensive data replication. One of the key benefits is extremely high storage efficiency of up to 94 percent usable storage capacity.



Optimized for the Data Center

Traditional shared storage systems add cost and complexity to the data center. Pivot3's hyperconvergence consolidates storage and compute in a single, scalable and homogenous appliance that drastically reduces system overhead to provide increased storage capacity and performance for workloads.

Grow without the growing pain

All Pivot3 systems scale linearly, modularly and dynamically. Compute and storage resources from each incremental node are automatically added to the distributed pool of resources available in the array and the virtual Protection Groups (vPGs) for reliability.

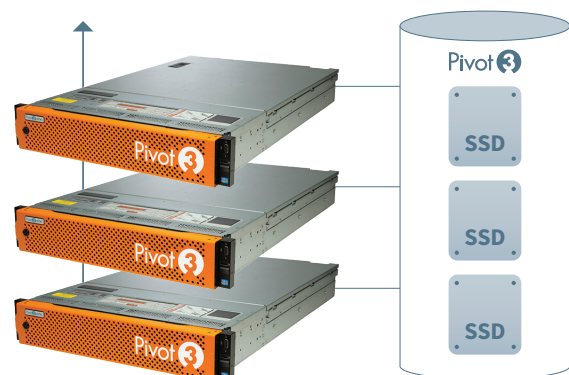
Easy Administration

System administration tools are designed for non-storage or virtualization experts with automated processes that replace complex manual setup. The user interface for vSTAC OS enables point-and-click additions for any node or storage capacity expansion that are automatically integrated in the vPG.

Integral HyperSAN

vSTAC OS forms a HyperSAN that appears to any application as a conventional storage resource. It directly communicates with storage controllers in the servers across the cluster for maximum performance. Pivot3 storage capacity presents as an iSCSI target where LUNs of any size and quantity, can be provisioned just like a SAN.

AGGREGATED RESOURCE DISTRIBUTION



Pivot3 forms a unified RAMdisk & pools SSD capacity across appliances

Pivot3 unifies SSD storage across appliances to form a HyperSAN



Key Features

- Efficient, truly reliable storage via **Scalar Erasure Coding**, NOT replication
- No single point of failure: high availability protects up to 3 drive failures or a full appliance and 1 additional drive failure for uninterrupted performance
- Self-healing architecture
- Direct Disk Access (DDA™) technology performance
- Dynamic expansion of logical and physical capacity
- Scale-out, non-volatile SSD-based write cache aggregated across appliances; performance is automatically load-balanced across all elements
- Background media verification for uncompromised data integrity
- Lowest virtual CPU consumption and storage overhead available
- Full-time Storage Controllers with aggregated and linearly scaled bandwidth

Virtual Server and Storage Specifications

Form Factor/ Height	2U Rack
Processor	Dual 14-core Intel® Xeon® ES-2695v3 CPU @ 2.30 Ghz
Memory	Up to 768 GB DDR4 – 2133 MHz via 24 slots (RDIMM/LRDIMM)
Internal Storage	3.2 TB, 6.4 TB and 12.8TB options
Fault Tolerance Protection Levels	3 simultaneous disk failures or 1 disk + 1 appliance failure
Power Supply	Redundant hot-swap 1100W Auto-Ranging AC input
Network Interface	4x10GB BaseT and 2x1GB BaseT
Cooling	6 redundant hot-swap fans
Hypervisor Support	VMware vSphere ESXi 6.0
Dimensions	482 mm x 87 mm x 764 mm (19.0" x 3.4" x 30.1")
Weight	Starting at 16.0 kg (35.3 lbs)
Optional	Graphics card(s) and PCoIP card

All-Flash HCI Array Specifications

Scalability

- Minimum deployment: 1 standalone appliance
- Stack 3 to 16 appliances in a hyperconverged vPG.
- Multiple vPGs enable unlimited scale out
- Scale to 102TB iSCSI Pivot3 HyperSAN vPG
- Scale to 320 Gb/sec aggregated bandwidth
- Aggregate bandwidth of up to 16 storage controllers

Fully compatible with VMware functions

- VMware server, storage, and Pivot3 system certifications
- Optional vMotion, HA and other VMware software sold separately through authorized reseller partners

Management Software

- vSTAC Manager configures the All-Flash HCI nodes and runs on any PC
- SNMP MIB Support for email notification and 3rd party management tool integration
- Proactive Diagnostics keeps vSTAC storage infrastructure running smoothly and efficiently with:
 - Configuration reporting: Licensing, P3 Failover, Software Versions
 - Device Health reporting: Drives, NICs, CPUs, Memory, PS, Temp
 - Logical State reporting: Arrays, Volumes
- VMware vCenter plugin: vSTAC OS Management Client Integration Plug-In integrates with the VMware vSphere 6 Web Client interface to enable users to manage their entire Pivot3 hyperconverged array.