



Pardis HP DL380 Gen10 HA All-Flash Cluster

Introducing **Pardis HP DL380 Gen10 HA All-Flash Cluster** – the shared data storage solution that is a performance powerhouse finely **tuned for databases and virtualization applications**. Thanks to the speed of an **All-Flash SSD array**, the system ensures rapid data access at every turn.

The system's **additional NVMe writelog** takes performance to the next level, providing an extra boost for demanding workloads. With support for **up to 3TB RAM**, you also get dynamic and efficient caching tailored to your unique requirements.

Pardis HP DL380 Gen10 HA All-Flash Cluster provides you also with:

- **High-Availability:** Reliability is fundamental for uninterrupted access to mission-critical data.
- **Unified Storage:** Seamlessly cater to diverse storage needs within a single, high-performance system.
- **All-Flash Performance:** Immerse yourself in unparalleled performance backed by the reliability of SSD technology.
- **Built-in Backup System:** Open-E JovianDSS On- & Off-site Data Protection ensures data security and peace of mind.

This system is crafted for **Medium to Large Enterprise customers** in pursuit of unparalleled performance, **Cloud Service Providers** requiring scalable and efficient storage solutions, and **Mission-Critical appliances** where reliability and speed are non-negotiable.

Recommended for:



Data Centers



Virtualization



NAS



Media & Entertainment



Gov & Public



With the Open-E certified **Pardis HP DL380 Gen10** you can build:

- compute-intensive applications
- high-performance and high-capacity storage
- hyper-converged infrastructure
- and more



Enterprise-level Pardis HP DL380 All-Flash HA Cluster Solution

High Availability

For robust and resilient storage catering to your critical business data, the **Pardis HP DL380** stands out as the optimal choice. This device facilitates a High-Availability cluster setup supporting NFS or iSCSI protocols, ensuring uninterrupted data access and protection in the event of a node failure. The Open-E JovianDSS High-Availability Cluster Feature Pack streamlines cluster configuration and performance management through user-friendly software. Leverage the versatile Virtual IP (VIP) address feature, empowering you to assign and flexibly switch multiple VIPs among servers. In the face of a node failure, VIPs seamlessly transition from the primary to the secondary node, ensuring no disruption or timeout for client servers. With the **Pardis HP DL380** and Open-E JovianDSS, embrace a high-performance, cost-effective High-Availability data storage solution.

Thin provisioning

Leverage the **Pardis HP DL380** to enhance storage efficiency through thin provisioning. This functionality enables dynamic allocation of storage space, ensuring utilization only when necessary. Say goodbye to wasted storage space and unnecessary expenses from over-provisioning capacity. Eliminate the challenges associated with estimating storage requirements and the potential risks of space depletion, which may necessitate system reconstruction. Thin provisioning empowers you to craft adaptable and scalable storage volumes that seamlessly expand alongside your evolving data demands.

Data integrity check

In safeguarding data integrity, the **Pardis HP DL380** data storage system employs sophisticated checksumming techniques. Each data block undergoes scrutiny with a checksum, promptly detecting any corruption or error. Upon identifying a flawed block, automated repair and rewriting mechanisms come into play. Persistent errors trigger relocation to an alternative segment of the NVMe drive. The **Pardis HP DL380** conducts comprehensive data integrity checks for every read/write operation, extending scrutiny to idle blocks seldom accessed. All data operations adhere to atomicity, ensuring either successful completion or none at all. This meticulous approach mitigates the risk of data inconsistency or loss, even in the face of unexpected power failures.

Unlimited number of snapshots and clones

The **Pardis HP DL380** storage system offers you the ability to effortlessly create and manage an unrestricted number of snapshots and clones. In disaster recovery scenarios, these features prove invaluable, allowing swift restoration of data in instances of accidental deletion, corruption, or malware intrusion. Customize snapshot schedules with flexibility in frequency and granularity, all while maintaining vigilant oversight of storage capacity and usage. Proactively manage space constraints with set alerts and notifications for low physical space. The synergy of **Pardis HP DL380** and Open-E JovianDSS reveals the benefits of unlimited snapshots and clones, all without compromising storage performance and efficiency.



Unlock the best data storage performance and reliability for your business! Reach out to us now to explore the Pardis HP DL380 Gen10 HA All-Flash data storage cluster. Don't miss this opportunity and elevate your data storage capabilities! **Buy the solution now!**

High Availability solution functionality test results

Functionality test name	Functionality test results [passed/failed]
Manual Failover	Passed
Automatic Failover triggering after network failure	Passed
Automatic Failover triggering after shutdown test	Passed
Automatic Failover triggering after reboot test	Passed
Automatic Failover triggering after power-off	Passed
Automatic Failover triggered after I/O failure test	Passed

Active-active failover resource switching time test results

Total number of targets	Switching time [seconds]	Performance test results [passed/failed]
2	19	Passed
10	21	Passed
20	21	Passed

Mastering High-Availability in Demanding Data Storage Scenarios



Guaranteed data protection

The **Pardis HP DL380** data storage system, powered by Open-E JovianDSS, goes beyond with multiple layers of data protection. Automatic and scheduled data integrity checks ensure the identification and correction of errors or inconsistencies. Unleash the potential of unlimited snapshots and clones for seamless backup and restoration at any point in time. In the face of drive failure, rely on the software-based RAID arrays for a swift response. Additionally, the **Pardis HP DL380** features a self-healing mechanism adept at detecting and rectifying malfunctions, restoring complete data redundancy. This comprehensive approach facilitates the implementation of a robust disaster recovery strategy, allowing swift recovery from any data loss or damage.

Enhanced storage performance

In the current fiercely competitive market, enterprise storage must seamlessly combine high capacity, reliability, speed, and affordability. The **Pardis HP DL380** data storage system excels in delivering precisely that. Fueled by Open-E JovianDSS, this data storage solution elevates both your efficiency and performance. Harness the prowess of robust tuning tools, allowing you to optimize the system effortlessly for various workloads, whether it's I/O-intensive databases or high-throughput video recording. Streamline your experience by leveraging predefined profiles tailored to meet your specific needs, saving you time and eliminating unnecessary hassle.

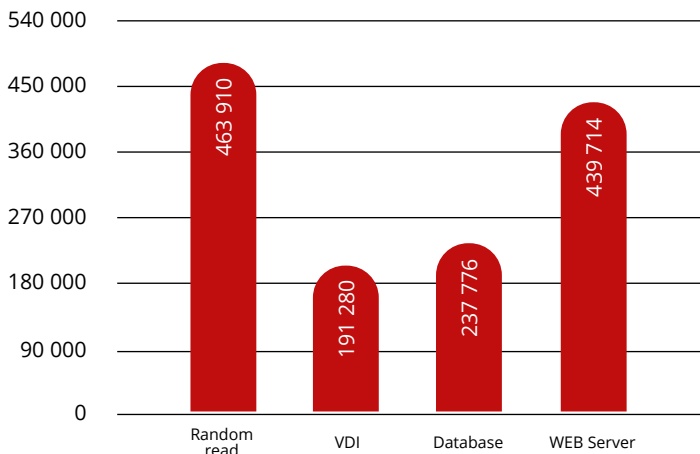
Optimal resource utilization

The **Pardis HP DL380 All-Flash Shared Cluster** system ensures optimal resource utilization, offering unparalleled flexibility and minimizing unforeseen downtimes. Powered by the Open-E JovianDSS data storage system, you can capitalize on limitless snapshots for seamless backup, clones for effortless duplication, and boundless capacity with volume sizes reaching up to one Zetabyte. Additionally, the system accommodates an unlimited number of disks, expandable effortlessly on the fly through thin provisioning. With no constraints, you have seamless control over the total cost of ownership, enabling easy expansion of your storage infrastructure to accommodate growing data volumes.

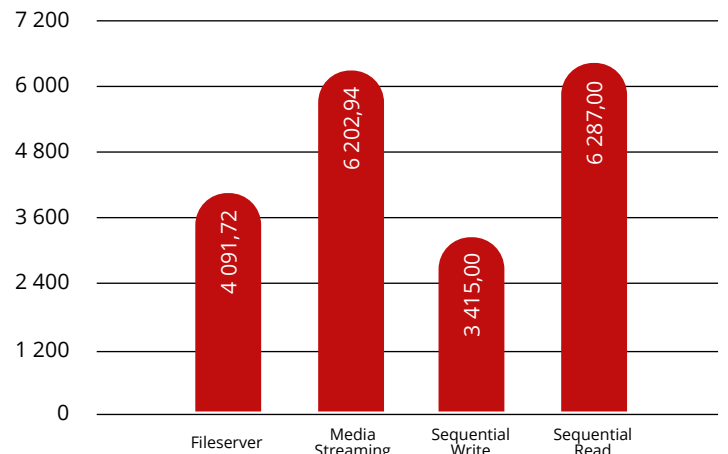
Optimized for Data Centers

The **Pardis HP DL380** data storage system is crafted for the data center infrastructures, primed to tackle compute-intensive applications encompassing big data, robust virtualization, and high-density server configurations. Facilitating effortless management of your storage infrastructure, the system ensures uninterrupted operations during updates or refreshes. Opting for the **Pardis HP DL380** data storage system unlocks the advantages of adaptable CPU power, high-speed networks operating with up to 100Gb/s Ethernet, and draws upon the expertise of Pardis in constructing and evolving servers tailored specifically for data centers.

IOPS



Throughput [MB/s]



Hardware details

For each of the 2 servers

	Default configuration	Options
Motherboard	DL380 Gen10	-
CPU	Intel® Xeon® Gold 5122	-
Chassis	DL380 Gen10	-
RAM	1x 64GB HPE 64GB Dual Rank x4 DDR4-2933 CAS-21-21-21	Up to 3TB
Storage raw capacity	199,68TB	-
Writelog	1x HPE 750GB NVMe x4 Lanes Write Intensive SFF (2.5in)	-
Network interface	1x HPE FlexFabric 10Gb 2-port 534FLR-SFP+ Adapter 1x HPE InfiniBand EDR/Ethernet 100Gb 2-port 840QSFP28 Adapter	-
Form factor	2U	-

JBODs Configuration

Model name	HPE D3710 Enclosure	-
Storage device	13x HPE 7.68TB SSD SAS 12G (VO007680JWZJL)	-
Storage raw capacity	99.84TB	-

About Pardis Co.

Pardis Co., established in 2009, distinguishes itself with a seasoned team dedicated to delivering cutting-edge virtualization, data storage, and information security solutions. Their commitment to excellence is reinforced by experienced managers, innovative and dedicated staff, and the acquisition of licenses and certifications from relevant authorities. By offering a comprehensive portfolio featuring StormaX storage products, genuine Kaspersky licenses, the Open-E JovianDSS data storage system, and Symantec network antivirus, the company ensures the highest standards in meeting its customers' diverse needs. Complemented by the educational initiatives and IT support services, Pardis Co. is your trusted partner for robust, secure, and customized technology solutions.

Pardis Co.

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About Open-E

Open-E, founded in 1998, is a well-established developer of IP-based storage management software. Its flagship product Open-E JovianDSS is a robust, award-winning storage application which offers excellent compatibility with industry standards, and is the easiest to use and manage. Additionally, it is of the most stable solutions on the market and undisputed price performance leader.

Thanks to its reputation, experience and business reliability, Open-E has become the technology partner of choice for industry-leading IT companies. Open-E accounts for over 37,000 installations world-wide and has received numerous industry awards and recognition, also with its product Open-E DSS V7. For further information about Open-E, its products and partners, visit www.open-e.com.

About the Open-E JovianDSS Server Certification

Open-E JovianDSS delivers software-defined storage which results in a wide variety of different hardware requirements such as performance, range, capacity, capability, and connectivity. To ensure compatibility and robust storage environments, all selected partners offer storage systems which are tested, benchmarked, and certified by Open-E. This way, customers are able to use solutions that require exceptional security and redundancy, without compromising performance.