EURO **stor**

Ceph Multi Function Nodes

PetaSAN is an **Open Source** scale-out Ceph solution that distributes data redundantly across many nodes. The system is highly scalable and offers exceptional data security thanks to the advanced Erasure-Coding technology provided by PetaSAN's Ceph-based architecture. This makes it possible to add or remove storage nodes at any time and without interruption. PetaSAN is designed to provide users with highly available **iSCSI, NAS and S3** in a Ceph cluster without requiring Ceph prior knowledge.

MultiPath volumes, each identified by a virtual IP address, provide fast I/O and path redundancy. PetaSAN distributes Ceph's drives to the individual physical drives in the cluster. In the event of a node failure, these virtual IPs can be dynamically and transparently moved from one node to another.

EUROstor develops tailor-made systems that are optimally adapted to this Open Source solution. EUROstor offers **customized systems**, which are optimally adapted to this Open Source solution. Data (OSD), monitoring (MON) and iSCSI gateway functions can also be combined in the same node. For higher performance it is recommended to outsource the monitoring function to dedicated nodes, which EUROstor gladly offers as well.

EUROstor ES-9500PS:

- Ceph-based iSCSI, SMB/NFS and S3 cluster that flexibly expands storage capacity

- Integrated end-to-end solution based on proven cloud technology

- n-way active/active

- transforms network protocols of the Linux kernel into a scale-out service layer

- supports iSCSI persistent reservations and VAAI virtualization environments

- Self-adapting and self-healing system with high reliability

- the Ceph Storage Engine ensures that data is stored in an open standard format without proprietary vendor lock-in

Service:

- 3 years warranty, optionally up to 5 years

- free support via telephone or email

- optional: 3 to 5 years Advance Replacement Service

- optional: 3 to 5 years On-Site Service

EUROstor Ceph Cluster

model	disks	rackmount size	size WxHxH	PSU
ES-9508PS	8	2 U	437x89x648	2x 720 Watt redundant
ES-9512PS	12	2 U	437x89x648	2x 920 Watt redundant
ES-9516PS	16	3 U	437x132x648	2x 1000 Watt redundant
ES-9524PS -2U	24x 2.5"	2 U	437x89x597	2x 920 Watt redundant
ES-9524PS	24	4 U	437x178x660	2x 1280 Watt redundant
ES-9536PS	36 *	4 U	437x178x699	2x 1280 Watt redundant
ES-9572PS	72x 3.5" **	4 U	437x178x699	2x 1280 Watt redundant

*) 24 on front, 12 on rear side   **) 48 on front, 24 on rear side

specifications	
disk interface	12 Gbit SAS / SATA-II / SSD, also mixed
system architecture	• Intel Xeon Silver 4114 processor on X11 Board, opt. dual processor • 48 GB DDR4 RAM, optional up to 1024 GB • 4 Ethernet ports (10 Gbit RJ45), 1 IPMI port
	• state-of-the-art SDS that flexibly expands storage capacity to meet actual demand • delivers n-way active/active iSCSI and CIFS that distributes individual disk LUNs across multiple nodes • transforms iSCSI, SMB, NFS and S3 service of the Linux kernel into a scale-out service layer running on the Ceph storage backend • supports iSCSI Persistent Reservations and VAAI in Hyper-V and VMware virtualization environments • provides an integrated end-to-end solution • access to proven cloud technology for the data center • self-adapting and self-healing system with high reliability • Ceph Storage Engine ensures that data is stored in an open standard format - without proprietary vendor lock-in • internally used: LIO (www.linux-iscsi.org) for its target iSCSI server • internally used: Ceph (www.ceph.com) for its storage engine • internally used: Consul (www.consul.io) for distributed resource management in the cloud
management	• IPMI 2.0 (including system health control) + remote console (KVM)
electrical	• 110-230 V AC, 50-60 Hz
temperature	operating: 5 – 35° C, non-operating: -40° – +60° C
rel. humidity	20% - 80% non-condensing