



Recommended Hardware Guide

Version 1.2



Revision History

Date	Version	Description
10-10-2016	1.0	Initial version
28-04-2019	1.1	Increase RAM per OSD
12-12-2019	1.2	Cache requirements + SSD types



Contents

Recommended Hardware	3
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Recommended Hardware

The following are the recommended hardware requirements for PetaSAN cluster nodes, the values are **additive** depending on the services enabled for each node.

Common to all nodes

- System disk (min 64 GB, SSD Recommended)
- 2-4 x 10/40 GB Ethernet Networking

Management and Monitoring Services (first 3 cluster nodes)

- 2 GB RAM

Local Storage Service

- 1 CPU core per OSD disk
- 4 GB RAM per OSD disk + 2% of Cache disk partition space for RAM
- 10-12 OSD disks (min 64 GB, SSD Recommended)

ISCSI Target Service

- 2 CPU cores
- 16 GB RAM

For heavy workloads, it is recommended to separate the ISCSI Target Service onto dedicated nodes.

Notes:

The total system performance will increase by increasing the number of physical. A Single ISCSI Target disk with concurrent i/o will also be positively impacted since it maps to all physical disks in the cluster.

SSD devices should be enterprise class with PLP, high DWPD and provide high sync/FUA write performance.