

# Ceph mds2 server (hot standby) with additional backup storage

## 1 Overview

I'll be using this additional computer server as a Ceph MDS hot standby server, which basically means I can access a Ceph filesystem even if the primary MDS server that I have (on a 10 GbE network) has a problem. In addition, I've added a **4 TB** SSD that I can use for backups and similar purposes.

In comparison to some other small computers like the Intel NUC, which can be outfitted with (for example) 64GB RAM, 2.5GB LAN, and a faster processor, the combination shown below presents a good value for being just 8GB RAM, and 1GB LAN.

## 2 Parts

There are just three items to order. The computer case, the Single Board Computer (SBC), and the additional M.2 NVME storage.

- **re\_computer case**: Most Compatible Enclosure for popular SBCs including ODYSSEY - X86J4105, Raspberry Pi, BeagleBone and Jetson Nano/Xavier NX
- ODYSSEY - **X86J4125864 v2 - with 64GB eMMC**, Linux and RP2040 Core
- **Crucial P3 4TB PCIe 3.0 3D NAND NVMe M.2 SSD**, up to 3500MB/s - CT4000P3SSD8

Here are more details on the 4TB SSD:

Form Factor: M.2 2280  
Capacity: 4TB  
Memory Components: 3D NAND  
Option: P3

## 3 Operating System (OS)

### 3.1 Installation

You'll need a USB thumb drive to install **Ubuntu 22.04.2 LTS**, or another OS of your choice.

Press F7 on the keyboard for the boot options.

On my system I had about 3.87 TB of usable storage, using an XFS filesystem.