1 Introduction

Ceph instance with three monitoring services running on Raspberry Pi 4 Model B's

And two servers, suggested 3 hard drives in each server of about 18 TB or 20 TB per drive.

1.1 Drive list

Brand	Model	Size
Seagate	IronWolf Pro	18 TB

1.2 Bill of Materials (BOM)

Item	Quantity	Price (ea)	Notes or Description
Raspberry Pi 4 model B, 8GB	3	75.00	Includes 32GB storage card and power supply
Seagate 18 TB Iron Wolf Pro	6	624.99	Price as of 6-Aug-2021

1.3 Estimated cost

Totals	Amount (USD)
SBC subtotal:	225.00 USD
Drive subtotal:	3749.94 USD
Total:	3974.94 USD
Tax:	
Shipping:	Free

1.4 Usage

The drives total up to about 108TB however some of it is duplicated, so lets say we have 81TB usable. Further imagine there are many 50kb files in the cluster. There could then be about **1.6 billion files** or objects of that size.