

# PARTS SHOPPING CHECKLIST

all eBay · single-node

VergeOS e-Waste Demo Box · Home Lab Adventures · under \$1,000 at the author's (inflated-market) prices

| COMPONENT / part number / listing                                                                                                                                                         | PAID            | YOUR \$ |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------|---------|
| <input type="checkbox"/> <b>HP Z440 barebone workstation</b><br>incl. 700W PSU; no CPU / RAM / drive, tested<br><a href="https://ebay.com/itm/377195825802">ebay.com/itm/377195825802</a> | \$99.99         | _____   |
| <input type="checkbox"/> <b>CPU</b><br>Intel Xeon E5-2680 v4 · SR2N7 · 14C / 28T<br><a href="https://ebay.com/itm/227111776047">ebay.com/itm/227111776047</a>                             | \$15.00         | _____   |
| <input type="checkbox"/> <b>Memory — 128 GB</b><br>4 x 32 GB ECC DDR4-2400 RDIMM<br><a href="https://ebay.com/itm/188259900122">ebay.com/itm/188259900122</a>                             | \$399.96        | _____   |
| <input type="checkbox"/> <b>Boot + vSAN NVMe — 2 TB</b><br>Intel DC P4600 · SSDPEDKE020T7 (PCIe add-in card)<br><a href="https://ebay.com/itm/135655488811">ebay.com/itm/135655488811</a> | \$399.88        | _____   |
| <input type="checkbox"/> <b>Display GPU</b><br>NVIDIA Quadro P620 2GB · HP L85877-001<br><a href="https://ebay.com/itm/177468916788">ebay.com/itm/177468916788</a>                        | \$34.99         | _____   |
| <input type="checkbox"/> <b>10GbE NIC</b><br>Intel X540-T2 dual-port · Dell 3DFV8<br><a href="https://ebay.com/itm/127058597097">ebay.com/itm/127058597097</a>                            | \$29.99         | _____   |
| <b>TOTAL (author paid, at inflated RAM/NAND prices)</b>                                                                                                                                   | <b>\$979.81</b> | _____   |

## VERIFY BEFORE YOU BUY

PSU: confirm it's the 700W (not 525W) AND that the PCIe power cables are included.  
NVMe: SSDPEDKE = PCIe add-in card (drops right in). SSDPE2KE = U.2 (needs a PCIe adapter).  
GPU: the Xeon has no onboard video — you MUST have a graphics card just to POST / install.  
NIC: X540-T2 is 10GBASE-T — needs a 10GbE switch (or direct link) to exceed 1G.  
Prices: RAM and NVMe are inflated right now — both should be cheaper in a normal market.  
Listings rotate — if a link is dead, search by the part number on the line above it.

## MEETS VERGEOS SPEC

VT-x/VT-d CPU · 128 GB RAM (16 GB min) · enterprise ~3 DWPD NVMe for vSAN · 1GbE external + 10GbE fabric.  
Single node runs in 'noredundant' mode — perfect for a demo; add a 2nd Z440 over the 10GbE for a real cluster.