

Parts List

The following parts can be purchased online at the respective sites as indicated: for Amazon, go to Amazon.com and for Newegg, go to Newegg.com. Since quite specific parts were requested, please purchase those, as most if not all are not available in Trinidad and Tobago. As a consequence, all prices are in USD.

For the installation of the network, specialized Cable is required to make the connections in the wall, much like electricity cable, and such is noted. Root Technologies has been unable to find a supplier for the specific type of Cable in Trinidad at the time of writing, so this is the next best option.

Other parts will be purchased, mostly for the network, but those will be acquired in Trinidad and Tobago.

Entering the link at the start of each section into a web browser will take you to a site called PCPartPicker.com, where a list of parts, with links to their exact locations on Amazon and Newegg respectively.

Server

PCPartPicker part list: <http://pcpartpicker.com/p/tQ6GFT>

Price breakdown by merchant: http://pcpartpicker.com/p/tQ6GFT/by_merchant/

- CPU: Intel Xeon E5-2609 V3 1.9GHz 6-Core Processor (\$307.98 @ Newegg)
- CPU Cooler: Corsair H55 57.0 CFM Liquid CPU Cooler (\$63.99 @ Amazon)
- Motherboard: Asus Z10PE-D16 WS SSI EEB Dual-CPU LGA2011-3 Motherboard (\$513.92 @ Amazon)
- Memory: Crucial 16GB (1 x 16GB) Registered DDR4-2133 Memory (\$144.99 @ Amazon)
- Storage: OCZ ARC 100 120GB 2.5" Solid State Drive (\$54.01 @ Amazon)
- Storage: Western Digital Red Pro 2TB 3.5" 7200RPM Internal Hard Drive (\$134.99 @ Newegg)
- Storage: Western Digital Red Pro 2TB 3.5" 7200RPM Internal Hard Drive (\$134.99 @ Newegg)
- Storage: Western Digital Red Pro 2TB 3.5" 7200RPM Internal Hard Drive (\$134.99 @ Newegg)
- Video Card: Sapphire Radeon R7 360 2GB Video Card (\$116.97 @ Newegg)
- Case: Phanteks Enthoo Pro ATX Full Tower Case (\$99.99 @ Amazon)
- Power Supply: Corsair 860W 80+ Platinum Certified Fully-Modular ATX Power Supply (\$199.99 @ Amazon)

Total: \$1906.81

Administrator Computer

PCPartPicker part list: <http://pcpartpicker.com/p/7gBX7P>

Price breakdown by merchant: http://pcpartpicker.com/p/7gBX7P/by_merchant/

- CPU: AMD FX-8320 3.5GHz 8-Core Processor (\$141.88 @ Amazon)
- CPU Cooler: Cooler Master Hyper 212 EVO 82.9 CFM Sleeve Bearing CPU Cooler (\$31.24 @ Amazon)
- Motherboard: Asus M5A99FX PRO R2.0 ATX AM3+ Motherboard (\$122.84 @ Amazon)
- Memory: Corsair Vengeance 8GB (2 x 4GB) DDR3-1866 Memory (\$46.99 @ Newegg)
- Storage: OCZ ARC 100 120GB 2.5" Solid State Drive (\$54.01 @ Amazon)
- Storage: Hitachi Ultrastar 7K4000 4TB 3.5" 7200RPM Internal Hard Drive (\$220.99 @ Newegg)
- Video Card: Sapphire Radeon R7 360 2GB Video Card (\$116.97 @ Newegg)
- Case: Corsair 450D ATX Mid Tower Case (\$119.99 @ Amazon)
- Power Supply: Corsair RM 650W 80+ Gold Certified Fully-Modular ATX Power Supply (\$94.99 @ Newegg)
- Operating System: Microsoft Windows 8.1 Pro OEM (64-bit) (\$157.24 @ Amazon)
- Keyboard: Logitech Wireless Combo MK270 Wireless Standard Keyboard w/Optical Mouse (\$19.99 @ Amazon)
- Other: Dell 2714T 27-Inch Touchscreen LED-lit Monitor (\$699.99)
- Other: StarTech USB A to USB Motherboard 4-Pin Header F/F 2.0 Cable, 6" (USBMBADAPT) (\$3.99)
- Other: Button Socket Head Screws 18-8 Stainless Steel - #6-32 x 1/2" Qty-250 (\$12.53)

Total: \$1843.64

Prices include shipping, taxes, and discounts when available

Thick Clients (Normal Computers)

PCPartPicker part list: <http://pcpartpicker.com/p/7dX4TW>

Price breakdown by merchant: http://pcpartpicker.com/p/7dX4TW/by_merchant/

- 4X CPU: AMD A8-7650K 3.3GHz Quad-Core Processor (\$103.46 each @ Amazon)
- 4X Motherboard: Asus A88X-PRO ATX FM2+ Motherboard (\$123.98 each @ Newegg)
- 4X Memory: G.Skill Ripjaws X Series 8GB (2 x 4GB) DDR3-2133 Memory (\$57.99 each @ Newegg)
- 4X Storage: OCZ ARC 100 120GB 2.5" Solid State Drive (\$54.01 each @ Amazon)
- 4X Case: NZXT Source 210 Window ATX Mid Tower Case (\$44.99 each @ Newegg)
- 4X Power Supply: Corsair CX 430W 80+ Bronze Certified Semi-Modular ATX Power Supply (\$49.99 each @ Newegg)
- 4X Operating System: Microsoft Windows 8.1 OEM (64-bit) (\$102.98 each @ Newegg)
- 4X Keyboard: Logitech Wireless Combo MK270 Wireless Standard Keyboard w/Optical Mouse (\$19.99 each @ Amazon)
- 4X Other: ARCTIC F12 PWM Rev. 2 Fluid Dynamic Bearing Case Fan, 120mm PWM Speed Control, 74CFM at 22.5dBA (\$8.99 each @ Amazon)
- 4X Other: Silverstone Tek 120mm Ultra Fine Fan Filter with Magnet Cooling FF123B (Black) (\$6.85 each @ Amazon)
- 4X Other: StarTech USB A to USB Motherboard 4-Pin Header F/F 2.0 Cable, 6" (USBMBADAPT) (\$3.99 each @ Amazon)

Subtotals: \$577.22 each

Total: \$2308.88 for all 4

Prices include shipping, taxes, and discounts when available

NOTE: The above list indicates 4 of each part for the client computers (of which there are 4), i.e. 4 of the indicated parts need to be bought.

Networking Purchases

PCPartPicker part list: <http://pcpartpicker.com/p/3kMTf7>

Price breakdown by merchant: http://pcpartpicker.com/p/3kMTf7/by_merchant/

- Switch: NETGEAR ProSAFE GS116NA 16-Port Gigabit Ethernet Switch (GS116NA) (\$84.47 @Amazon)
- Main Router: NETGEAR Nighthawk X4 AC2350 Smart Wi-Fi Router (R7500) (\$215.77 @Amazon)
- Cable: Cable Matters® In-Wall Rated (CM) Cat6 Ethernet Cable in Blue 1000 Feet (\$149.99 @Amazon)
- Patch Panel: [UL Listed] Cable Matters® Rackmount or Wallmount 24-Port Cat6 RJ45 Patch Panel (\$29.99 @Amazon)
- 6X Jacks: Monoprice Cat6 RJ-45 Toolless Keystone, Blue (101040) (\$30.00 @Amazon)
- Secondary Router: NETGEAR N750 Dual Band Wi-Fi Gigabit Router (WNDR4300) (\$89.99 @ Amazon)

Total: \$600.21

Prices include shipping, taxes, and discounts when available