Database Server

Component	Line Item / selection	justifications	costs	Assumptions
Base server	ThinkSystem SR530 2.5" 8 Bays	low cost 1U chassis - upscalable resources	$438	For the database, I'm going to
Processor	2x 2nd genXeon Bronze 1.9GHz	redundant low-end processors will work for now	$447	modify the webserver config to
memory	12x16GB 2666 MHz 2Rx8 RDIMM	fully stocked for performance, 16G leaves room to grow	$1,952	meet expectations. I'm thinking the
Storage	8x 2.5" 800GB 12GB HotSwap SSD	Using 5/8 bays for raid6 with effective 1TB + 1 hot spare	$2,388	database will see less traffic than the
Backplane	8-Bay Backplane	For the Drives	$51	webserver, so we could probably
Raid Controler	ThinkSystem 2GB Flash 12Gb Adapter	for managing the raid arrangement	$306	turn down the ram and processor
Riser card	SR530/SR570/SR630 x8/x16 PCIe LP+LP	to plug in the raid controller	$20	one or two notches, but we are
Riser Bracket	1U LP+LP BF Riser Bracket	Needed to mount the riser card - for the raid controller	$5	already on the lower end of the
OS	Windows Server 2019 Standard	Not doing anything special	$2,147	spectrum with those resources so
Onboard LAN	2x 1GB RJ-45 ports	redundant management interfaces	$75	we'll just leave those where they
Network card	I350-T2 2port 1GB RJ45	redundant gigabit uplinks	$112	are. Since it's a DB what we want is
PSU	2x 550W Platinum Hot-Swap PSU	redundant Power Sources	$356	storage, but how much is
Power Cables	2x default	need to get the power to the machine somehow	$10	unspecified. I'm going to err on side
Remote Man.	Xclarity enterprise upgrade	remote management	$50	of caution and just load it. Gonna
Rail kit	slide rail	convenience	$50	Use 7 Bays with Big SSDs in RAID6
				with one hot spare.
				Noted that I can't seem to
				configure redundant raid
				controllers.
				that is a result
				of the 1U form factor
				Otherwise we have full
				redundancy

| requirements: | | Damages: | $8,407 | |

requirements:
- dual gigabit uplinks
- dual power sources
- rack server (for colo center)
- scalable
- Remotely manageable

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note: Again reports a price of almost 10k… I added the sum of every part and came to around 8.4k
double triple checked.
Lenovo is Trying to rip us off Yo! Real Talk.