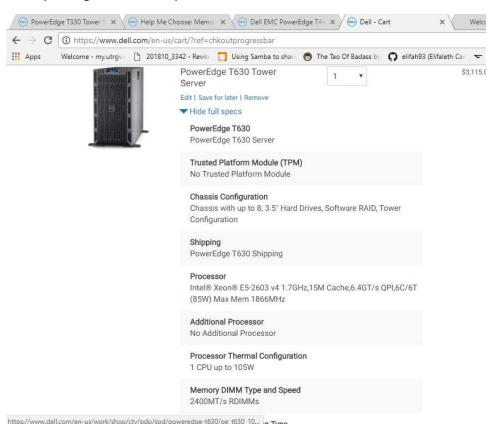
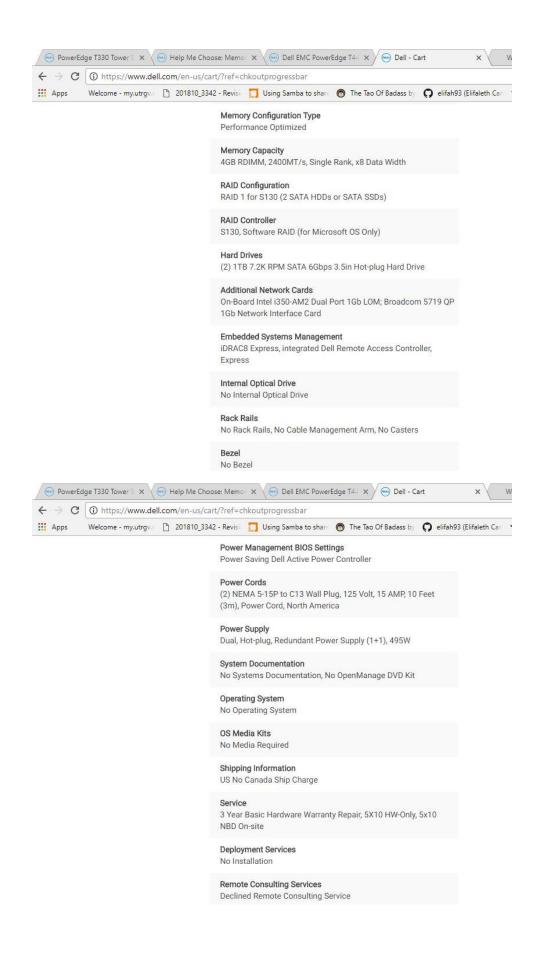
Lab 6: Networks: Vedanth Mapakshi: 20374094

a. My Configurations and specifications





- b. Why I chose these configurations:
- 1. PowerEdge T630 Tower Server fulfilled the expectations set by the lab which included CPU, Memory, power redundancy, hot swap and backup solutions.
- 2. I chose no TPM because generation of encryption keys wasn't extremely significant. However, a company decides to prioritize its information security highly then we could have chosen a TPM in order to provide hardware based authentication.
- 3. Appropriate chassis configuration
- 4. Intel® Xeon® E5-2603 v4 1.7GHz,15M Cache,6.4GT/s QPI,6C/6T (85W) Max Mem 1866MHz- The processor, is the ideal choice for virtually all data demanding or standard enterprise infrastructure applications.
- 5. 2400MT/s RDIMMs- Memory DIMM type and speed- RDIMM or registered memory, is the most commonly used DIMM type, and offers the best mix of frequency, capacity, and rank structure choices
- 6. Memory capacity- 4gb RDIMM single rank memory is an ideal choice.
- 7. Raid Configuration- RAID 1 uses disk mirroring so that data written to one physical disk is simultaneously written to another physical disk. RAID 1 is good for small databases or other applications that require small capacity, but also require complete **data redundancy**
- 8. Raid 1 on T630 requires raid controller S130, Software Raid
- 9. Raid 1 on T630 requires 2 similar SATA HDD's so I chose two 1TB 7.2K RPM SATA Hot Plug Hard Drives. Hot Swap and Hot plugging allows us or replace or add components without rebooting the system
- 10. Power Supply- I choose a dual power supply with hot plug capability for power redundancy.
- 11. The power Supply requires 2 Similar Power cords so I chose the above ones.