


Lab 6 : Networks: Vedanth Mapakshi: 20374094

a. My Configurations and specifications

PowerEdge T330 Tower S x Help Me Choose: Memo x Dell EMC PowerEdge T44 x Dell - Cart x Welc

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PowerEdge T630 Tower Server 1 \$3,115.00

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PowerEdge T630
PowerEdge T630 Server

Trusted Platform Module (TPM)
No Trusted Platform Module

Chassis Configuration
Chassis with up to 8, 3.5" Hard Drives, Software RAID, Tower Configuration

Shipping
PowerEdge T630 Shipping

Processor
Intel® Xeon® E5-2603 v4 1.7GHz,15M Cache,6.4GT/s QPI,6C/6T (85W) Max Mem 1866MHz

Additional Processor
No Additional Processor

Processor Thermal Configuration
1 CPU up to 105W

Memory DIMM Type and Speed
2400MT/s RDIMMs

<https://www.dell.com/en-us/work/shop/ctv/odo/sod/poweredoe-t630/oe-t630-10...>

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Memory Configuration Type
Performance Optimized

Memory Capacity
4GB RDIMM, 2400MT/s, Single Rank, x8 Data Width

RAID Configuration
RAID 1 for S130 (2 SATA HDDs or SATA SSDs)

RAID Controller
S130, Software RAID (for Microsoft OS Only)

Hard Drives
(2) 1TB 7.2K RPM SATA 6Gbps 3.5in Hot-plug Hard Drive

Additional Network Cards
On-Board Intel i350-AM2 Dual Port 1Gb LOM; Broadcom 5719 QP
1Gb Network Interface Card

Embedded Systems Management
iDRAC8 Express, integrated Dell Remote Access Controller, Express

Internal Optical Drive
No Internal Optical Drive

Rack Rails
No Rack Rails, No Cable Management Arm, No Casters

Bezel
No Bezel

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Power Management BIOS Settings
Power Saving Dell Active Power Controller

Power Cords
(2) NEMA 5-15P to C13 Wall Plug, 125 Volt, 15 AMP, 10 Feet (3m), Power Cord, North America

Power Supply
Dual, Hot-plug, Redundant Power Supply (1+1), 495W

System Documentation
No Systems Documentation, No OpenManage DVD Kit

Operating System
No Operating System

OS Media Kits
No Media Required

Shipping Information
US No Canada Ship Charge

Service
3 Year Basic Hardware Warranty Repair, 5X10 HW-Only, 5x10 NBD On-site

Deployment Services
No Installation

Remote Consulting Services
Declined Remote Consulting Service

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 to 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.