

Recommendation Report_Scenario9 (GP9)

by HENG YANG CHUAH

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CENTRE FOR MODERN LANGUAGES

**UHL2422
ENGLISH FOR TECHNICAL
COMMUNICATION
SEMESTER 2 SESSION 2020/2021**

ASSESSMENT 3

**Task 1: Recommendation Report (20%); Task 2: Digital Recommendation
Presentation (15%)**

WEEK 14

MATRC NO.	NAME	REPORT (/55)		PRESENTATION (/40)			TOTAL
		Content (/30)	Language (/25)	Delivery (/22)	Content (/6)	Language (/12)	
CA19144	Muhammad Aidil Syazwan bin Hamdan						/95
CA19136	Chuah Heng Yang						/95
CA19143	Muhammad Danial bin Mohammad Rizwan						/95
CA19134	Ho Chee Hou						/95
SECTION	13P	DATE					
LECTURER	Ms. Nabila binti Abdul Malek						

COURSE LEARNING OUTCOMES

- CLO1 To demonstrate presentation skills using appropriate delivery strategies
- CLO3 To transfer salient information from technical reading materials and documents into appropriate format
- CLO4 To apply appropriate and accurate language in written and/or spoken discourse

INSTRUCTIONS

1. Complete the two (2) tasks set for this assessment.
2. Submit ALL the required files (documents and videos) by **June 11, 2021**.

VERIFIED BY:

DR. FATIMAH ALI
HEAD OF PROGRAMME
(ENGLISH LANGUAGE)
CENTRE FOR MODERN
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TECHNICAL MEMORANDUM

To:	Encik Abu bin Ahmad, CEO of XYZ Sdn. Bhd
From:	Muhammad Aidil Syazwan bin Hamdan, Team Lead of Networking System Department
Date:	5 June 2021
Subject:	Recommendation for New Servers

1.0 INTRODUCTION

1.1 Background of current situation

The demand of network traffic of XYZ Sdn. Bhd company is increasing at the beginning of the year due to the digitization initiatives. Our Ecommerce website is about to launch at foreign countries. The passenger flow and number of visitors to website will increase significantly like seller, delivery service and transaction service. Hence, the servers are needed for migrating the usage of data and improving the performance of websites. Management team has faith in our profession and required us, the team of the networking system, to conduct a thorough research on two servers and give some recommendations with relevant criteria for a better server.

1.2 Statement of the problem

As we know, our company needs a brand new system that at least allows us to do basic accessing, holding and data transferring within the local network or outside of the company network. Therefore, the management team required a server with minimum requirement of **high storage, rapid processing speed, lower cost of maintenance, and easy to maintain and manage**. In addition, the standards set by the Information Systems Audit and Control Association (ISACA) are much obeyed and implemented by selected servers. The server selected should come with enough storage so that it can store more data of the user and cookies. Besides, a quick processing speed also important issues to be take care of, if the speed is not fast enough the website performance will also be affected and cause lose interest of users to purchasing stuff with us and even reputation of company and website will also be affected, in addition high processing speed allow the website to support more visitors at the same time and the website won't clash easily. Next, the server should be easy to maintain and

high availability as old servers are always down and cause a lot of inconvenience to users yet have expensive maintenance costs.

1.3 Options and points of comparison/criteria

In response to the management team regarding making a recommendation about purchasing a new server, this report will analyse two different servers with same category and almost same spec and suggest the better option. We, as the Networking system team, have researched on Dell PowerEdge T30 and Lenovo ThinkServer TS150, we have been monitoring both of the servers for weeks and visiting the manufacturer and their marketing team, to gain more information and knowledge regarding the servers. In order to decide which is the better choice there are 4 main criteria that we are going to focus on and take into consideration during analysis, which is storage, processing speed, cost of maintenance, and ease of maintenance and management

2.0 STATEMENT OF REQUIREMENTS

The statement of requirements about the server needs to fulfill the following requirements:

- The storage of the server is more than 20 Terabyte (TB)
- The minimum processing speed of server is 2.1GHz
- The maximum price of 1 server is RM 4500
- The vendor providing support

3.0 DISCUSSION

According to our research on both servers, which is Dell PowerEdge T30 and Lenovo ThinkServer TS150, we notice that there are several criterias that can be compared to choose the best server.

Firstly, the brand for both servers is different. The brand of the Dell PowerEdge T30 is Dell while the Lenovo ThinkServer TS150 is Lenovo. The weight of the Dell PowerEdge T30 is 11.70 kilogram (kg) (Dell, 2021), while the Lenovo ThinkServer TS150 is 12.50 kilogram (kg) . Based on the table below, we chose a total of 4 main criteria in considering the best

server in countering the company problem. The criteria are the server storage capacity, processing speed, cost, and the ease of management.

3.1 Storage

Table 1: Storage Comparison

Criteria	Dell PowerEdge T30	Lenovo ThinkServer TS150
Storage	Up to 20TB	Up to 40TB

The storage capacity refers to how much disk space one or more storage devices provides. The storage capacity for Dell PowerEdge T30 is 20TB, while the storage capacity of Lenovo ThinkServer TS150 is up to 40TB ("Lenovo ThinkServer TS150 | Tower Servers | Lenovo Malaysia", 2021). Through this information, we can confirm that the Lenovo ThinkServer TS150 is better than Dell PowerEdge T30.

3.2 Speed

Table 2: SpeedComparison

Criteria	Dell PowerEdge T30	Lenovo ThinkServer TS150
Speed	3.3GHz	2.6GHz

In choosing the best server in countering the problem, processing speed is one of the most crucial criteria to look for, as the network traffic depends heavily on the server performance. Comparing both servers in terms of the processing speed, the Dell PowerEdge T30 clearly is the fastest. Dell PowerEdge T30 speed is up to 3.3Ghz while Lenovo ThinkServer TS150 only covers up to 2.6Ghz ("Dell PowerEdge T30 Intel Xeon E3-1225v5 3.3GHz - 8GB - 1TB - DVD-RW - Tower Server on Servers Direct", 2021).

3.3 Cost

Table 3: Cost Comparison

Criteria	Dell PowerEdge T30	Lenovo ThinkServer TS150
Cost	RM3600	RM4400

Amongst the other criterias, cost weighs the lowest in choosing a new server for the company. This is because the main focus in choosing a compatible server is the servers' specifications such as processing speed and storage size. Comparing both Dell PowerEdge

T30 and Lenovo ThinkServer TS150, the Dell PowerEdge T30 is the cheapest with a total of RM800 difference.

3.4 Ease of management

Table 4: Ease of Management Comparison

Criteria	Dell PowerEdge T30	Lenovo ThinkServer TS150
Ease of Management	Provide support	No Support Provided

Managing the server in both hardware and software may be sometimes easy. But most of the time, external support such as from the server's company is required. Looking at both server candidates, support from helpdesk for the server Dell PowerEdge T30 company is provided.

4.0 Recommendation

4.1 Summary

Table 5: Storage Comparison

Criteria	Dell PowerEdge T30	Lenovo ThinkServer TS150
Storage	Up to 20TB	Up to 40TB
Speed	3.3GHz	2.6GHz
Cost	RM3600	RM4400
Ease of Management	Support Provided	No Support Provided

To summarize, the Dell PowerEdge T30 provides smaller storage capacity which is up to 20TB while Lenovo ThinkServer TS150 provides larger storage capacity which is up to 40TB. In terms of speed, Dell PowerEdge T30 is the fastest with 3.3GHz processing speed while Lenovo ThinkServer TS150 speed is up to 2.6GHz. Even though the storage size for Lenovo ThinkServer TS15 is greatly better, Dell PowerEdge T30 is considered to be the best deal as processing speed of the server plays an important role in improving the company network traffic problem.

1

4.2 Recommendation

In conclusion, our team recommends buying the Dell PowerEdge T30, which meets all of our criteria based on the analyses done, as compared to Lenovo ThinkServer TS150. By having this new server, our company will no longer suffer slow traffic and facing the hassle

of slow file transfer. If this recommendation receives your approval, on behalf of the Network System Team, I will schedule preliminary meetings with Dell's representatives for further discussion.

Reference

1. I.dell.com. (2021). Retrieved 11 June 2021, from https://i.dell.com/sites/csdocuments/Shared-Content_data-Sheets_Documents/en/uk/PowerEdge_T30_Spec_Sheet.pdf.
2. Dell PowerEdge T30 Xeon E3-1225V5 3.3GHz 8GB RAM 1TB HDD Mini Tower Server - Server Store. Serverstore.com. (2021). Retrieved 11 June 2021, from <https://www.serverstore.com/servers/tower-servers/dell-powerededge-t30-xeon-e3-1225v5-33ghz-8gb-ram-1tb-hdd-mini-tower-server-30-0265/>.
3. Dell PowerEdge T30 Intel Xeon E3-1225v5 3.3GHz - 8GB - 1TB - DVD-RW - Tower Server on Servers Direct. Servers Direct.co.uk. (2021). Retrieved 11 June 2021, from <https://www.serversdirect.co.uk/p/1193417/dell-powerededge-t30-intel-xeon-e3-1225v5-3.3ghz-8gb-1tb-dvd-rw-tower-server>.
4. Lenovo ThinkServer TS150 | Tower Servers | Lenovo Malaysia. Lenovo.com. (2021). Retrieved 11 June 2021, from <https://www.lenovo.com/my/en/data-center/servers/towers/ThinkServer-TS150/p/77LS7TS150V>.

APPENDIX



Lenovo ThinkServer TS150 model



Dell PowerEdge T30 model

Recommendation Report_Scenario9 (GP9)

ORIGINALITY REPORT

18%
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