



FAKULTI TEKNOLOGI MAKLUMAT
DAN KOMUNIKASI
UNIVERSITI TEKNIKAL MALAYSIA MELAKA
BITS 3363 – NETWORK SECURITY
PROJECT MANAGEMENT

ASSIGNMENT 2

Title: WBS Development

(Group name - domain area: client name)

Group KeepAlive - Car Manufacturer – Proton

GROUP MEMBERS (MAXIMUM 6 PERSONS IN A GROUP)

1. Muhammad Izham Bin Norhamadi (B032020039)
2. Ahmad Sha Herizam Bin Tahir (B032020009)
3. Affendy Elyas bin Azhari Sharidan (B032020024)
4. Muhammad Firdaus Hafizi bin Sabri (B032020037)
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6. Muhammad Rifqi Bin Ramlan (B032020028)

ASSIGNMENT QUESTIONS

Assignment 2 consists of two parts that is part A and B. The purpose of assignment 2 is to develop the WBS, WBS Dictionary and align with the duration of each task that is time management for protecting the data against cyber-attacks and threats in the in the network environment.

Part A

- Expand in more detail about the work created in the WBS as in the Assignment 1 using WBS Dictionary.
- Create the WBS Dictionary for each task. Please use the WBS Dictionary template provided.

(10 Marks)

Project: Setting up Email server									
Task No.	Task Description	Duration	Dependency	Resources Needed	Task Status	Cost(RM)	Start Date	Estimated Completion	Finish Date
1	Initiation	10 Days							
1.1	Hardware requirement						1/11/2021 8:00		10/11/2021 17:00
1.1.1	Choosing server and routers	2 days		Server	Completed	RM15000	1/11/2021 8:00		2/11/2021 17:00
1.2	Network design						3/11/2021 8:00		10/11/2021 17:00
1.2.1	Network topology	2 days		Network simulator software (GNS3,Packet Tracer)	Completed		3/11/2021 8:00		4/11/2021 17:00
1.2.2	VLAN/interVLAN requirement	2 day	1.2.1		Completed		5/11/2021 8:00		8/11/2021 17:00
1.2.3	Propose server IP address	2 days	1.2.2	Server IP Address	Completed		9/11/2021 8:00		10/11/2021 17:00
1.3	Software Requirement						9/11/2021 8:00		10/11/2021 17:00
1.3.1	Choosing server OS	2 days		Operating System ISO	Completed	RM1000	9/11/2021 8:00		10/11/2021 17:00
2	Planning	7 days					11/11/2021 8:00		19/11/2021 17:00
2.1	Electing database administrators	1 day		Administrator	In progress	RM3000	11/11/2021 8:00		11/11/2021 17:00
2.2	Choosing best database relational system	1 day		ERD	In progress		12/11/2021 8:00		12/11/2021 17:00
2.3	Setting emailing protocols	1 day		Email Protocol	Pending	RM2000	15/11/2021 8:00		15/11/2021 17:00
2.4	Selecting infrastructure and hardwares						16/11/2021 8:00		19/11/2021 17:00
2.4.1	Choose place to store servers	2 days		Server base location	Pending		16/11/2021 8:00		17/11/2021 17:00
2.4.2	Choose best servers rack	2 days		Server racks	Pending	RM10000	18/11/2021 8:00		19/11/2021 17:00
3	Execution	56 days					22/11/2021 8:00		7/2/2022 17:00
3.1	Installing hardware	14 days		Hardware manual	Pending	RM3500	22/11/2021 8:00		9/12/2021 17:00
3.2	Installing software	7 days	3.1	Software installation guide	Pending	RM2500	10/12/2021 8:00		20/12/2021 17:00
3.3	Server Hardening	7 days	3.2	Manual	Pending	RM2000	21/12/2021 8:00		29/12/2021 17:00
3.4	Improve site performance	28 days		Network engineer	Pending	RM5000	30/12/2021 8:00		7/2/2022 17:00
4	Control	15 days					8/2/2022 8:00		28/2/2022 17:00
4.1	Maintenance						8/2/2022 8:00		25/2/2022 17:00
4.1.1	Monthly maintainance	7 days		CMMS	Pending	RM2500	8/2/2022 8:00		16/2/2022 17:00
4.1.2	Check server integrity	4 days		CMMS	Pending		17/2/2022 8:00		22/2/2022 17:00
4.1.3	Security check up	3 days		SIEM (qradar)	Pending	RM3000	23/2/2022 8:00		25/2/2022 17:00
4.2	Regular backup	1 day		Comet Backup	Pending		28/2/2022 8:00		28/2/2022 17:00
5	Closing	9 days					1/3/2022 8:00		11/3/2022 17:00
5.1	Presentation	1 day		Documentation	Pending		1/3/2022 8:00		1/3/2022 17:00
5.2	Report & Calculate all costs	7 days		Documentation	Pending		2/3/2022 8:00		10/3/2022 17:00
5.3	Document closeout	1 day		Documentation	Pending		11/3/2022 8:00		11/3/2022 17:00

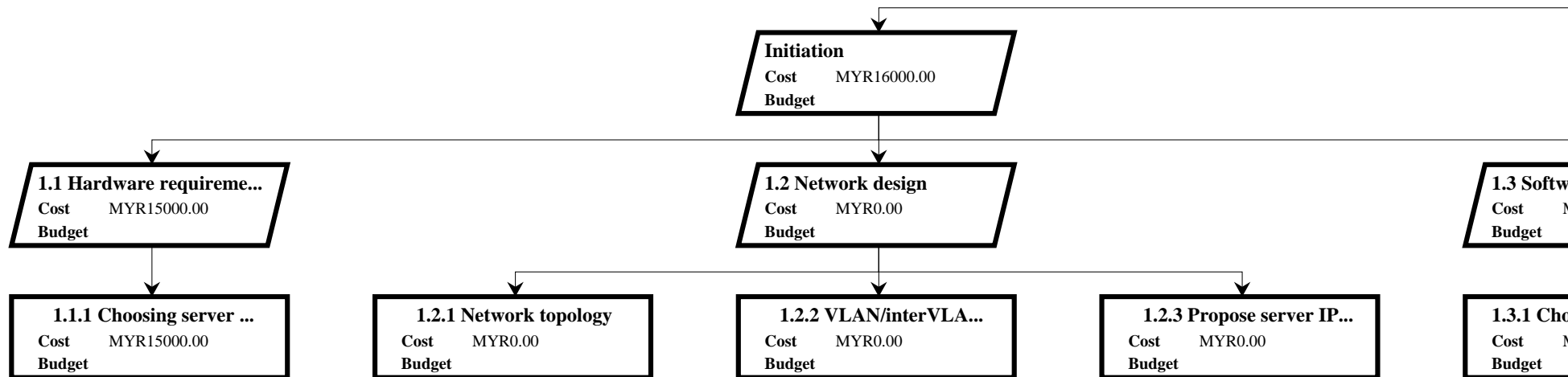
Part B

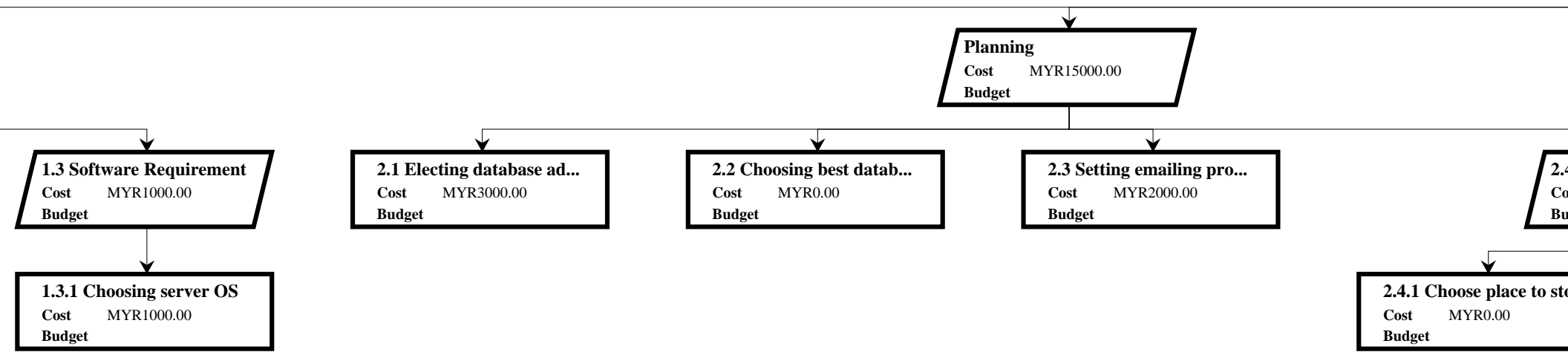
- List the duration of estimated time for the work with the work name appropriately. Suggestion to list your WBS, WBS Dictionary and the estimated time for the work to be completed in Excel before you copy and paste to the ProjectLibre or any other Project Management (PM) Tool Application Software, since it reduces the tendency to do mistake.
- Develop the WBS, WBS Dictionary and duration of work using PM Tool. Please make sure that the predecessor, successor, lags, leads dependency, milestone and resources requirements are included in the Gantt Chart.

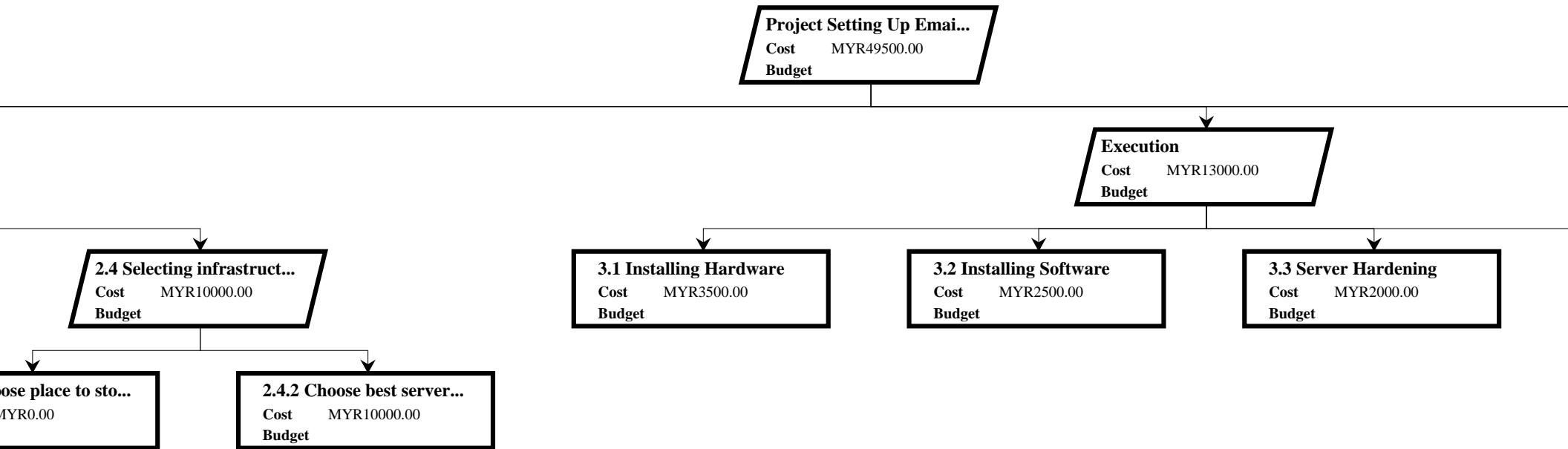
(10 Marks)

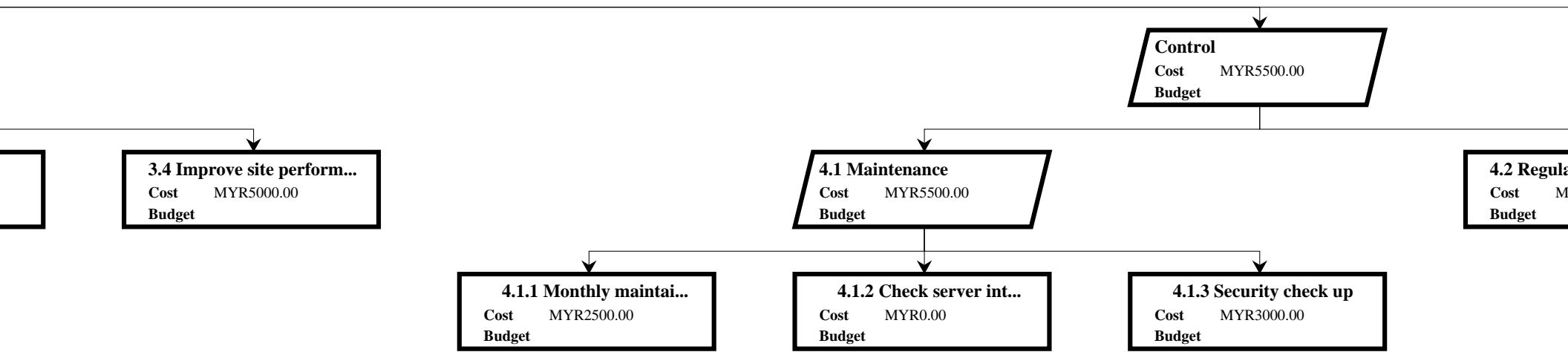
(WBS and Gantt Chart continues in PDF)

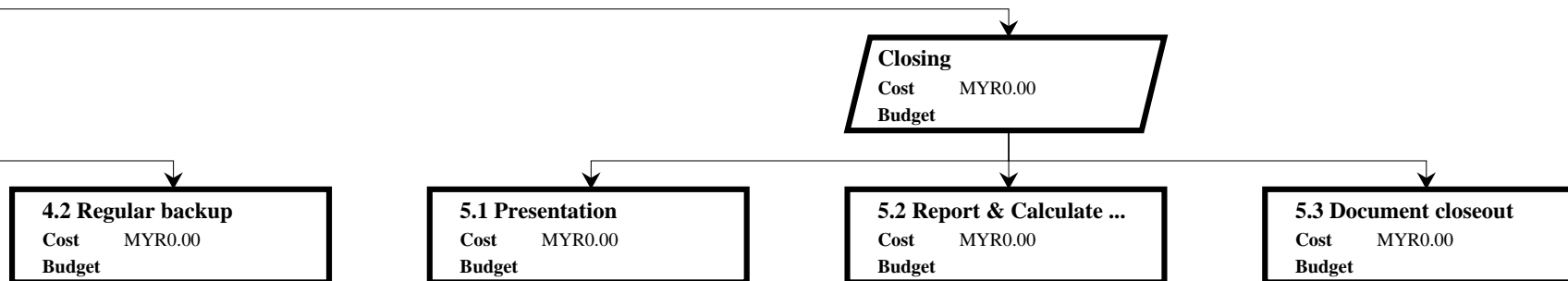
Assessment: [Assignment 2] – (5%) – [PO7, TS1]





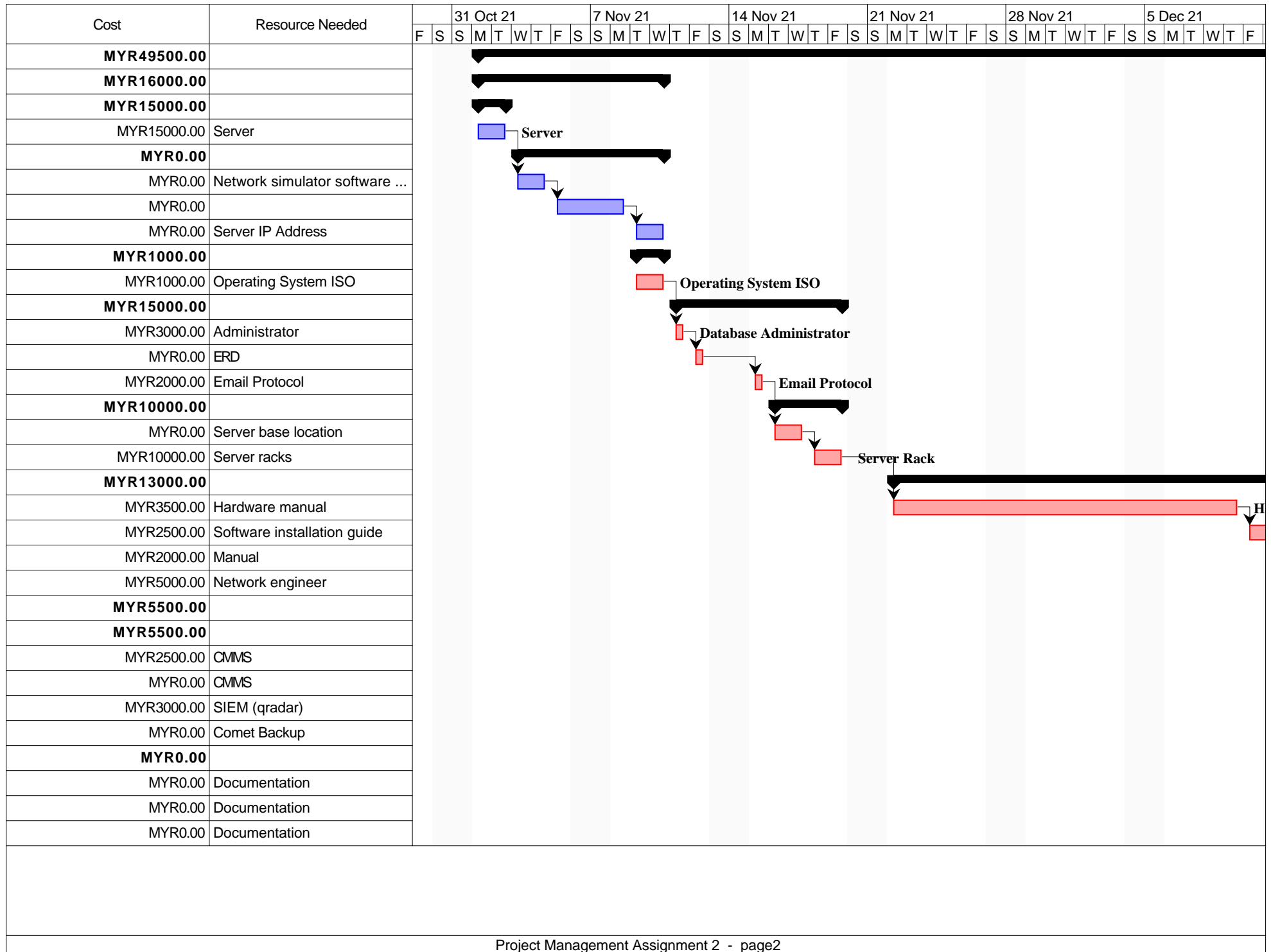




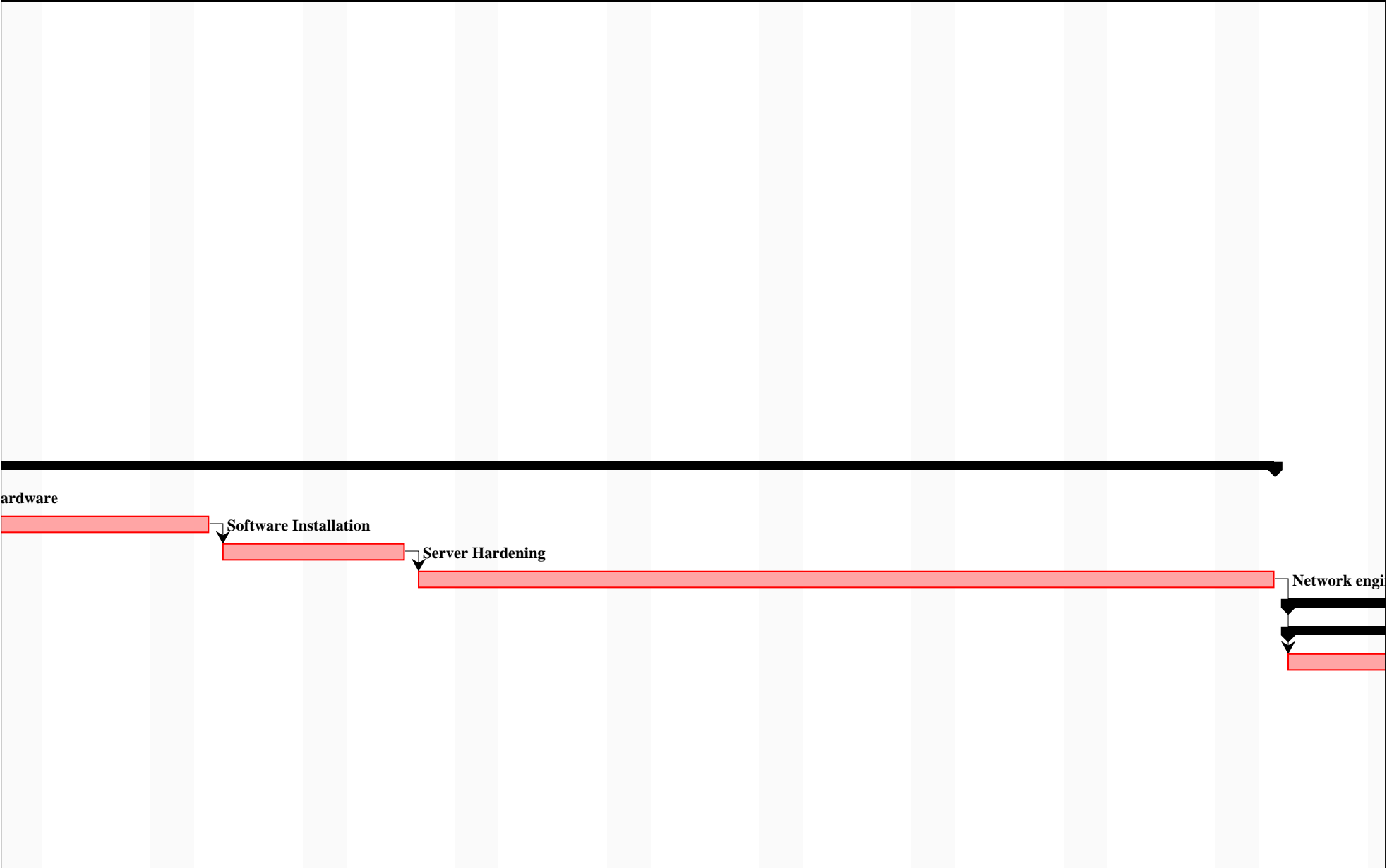




		Name	Duration	Start	Finish	Predecessors
1		Project Setting Up Email Server	95 days	11/1/21 8:00 AM	3/11/22 5:00 PM	
2		Initiation	8 days	11/1/21 8:00 AM	11/10/21 5:00 PM	
3		1.1 Hardware requirement	2 days	11/1/21 8:00 AM	11/2/21 5:00 PM	
4		1.1.1 Choosing server and routers	2 days	11/1/21 8:00 AM	11/2/21 5:00 PM	
5		1.2 Network design	6 days	11/3/21 8:00 AM	11/10/21 5:00 PM	
6		1.2.1 Network topology	2 days	11/3/21 8:00 AM	11/4/21 5:00 PM	4
7		1.2.2 VLAN/interVLAN requirement	2 days	11/5/21 8:00 AM	11/8/21 5:00 PM	6
8		1.2.3 Propose server IP address	2 days	11/9/21 8:00 AM	11/10/21 5:00 PM	7
9		1.3 Software Requirement	2 days	11/9/21 8:00 AM	11/10/21 5:00 PM	
10		1.3.1 Choosing server OS	2 days	11/9/21 8:00 AM	11/10/21 5:00 PM	
11		Planning	7 days	11/11/21 8:00 AM	11/19/21 5:00 PM	
12		2.1 Electing database administrators	1 day	11/11/21 8:00 AM	11/11/21 5:00 PM	10
13		2.2 Choosing best database relational system	1 day	11/12/21 8:00 AM	11/12/21 5:00 PM	12
14		2.3 Setting emailing protocols	1 day	11/15/21 8:00 AM	11/15/21 5:00 PM	13
15		2.4 Selecting infrastructure and hard...	4 days	11/16/21 8:00 AM	11/19/21 5:00 PM	
16		2.4.1 Choose place to store servers	2 days	11/16/21 8:00 AM	11/17/21 5:00 PM	14
17		2.4.2 Choose best servers rack	2 days	11/18/21 8:00 AM	11/19/21 5:00 PM	16
18		Execution	56 days	11/22/21 8:00 AM	2/7/22 5:00 PM	
19		3.1 Installing Hardware	14 days	11/22/21 8:00 AM	12/9/21 5:00 PM	17
20		3.2 Installing Software	7 days	12/10/21 8:00 AM	12/20/21 5:00 PM	19
21		3.3 Server Hardening	7 days	12/21/21 8:00 AM	12/29/21 5:00 PM	20
22		3.4 Improve site performance	28 days	12/30/21 8:00 AM	2/7/22 5:00 PM	21
23		Control	15 days	2/8/22 8:00 AM	2/28/22 5:00 PM	
24		4.1 Maintenance	14 days	2/8/22 8:00 AM	2/25/22 5:00 PM	
25		4.1.1 Monthly maintainance	7 days	2/8/22 8:00 AM	2/16/22 5:00 PM	22
26		4.1.2 Check server integrity	4 days	2/17/22 8:00 AM	2/22/22 5:00 PM	25
27		4.1.3 Security check up	3 days	2/23/22 8:00 AM	2/25/22 5:00 PM	26
28		4.2 Regular backup	1 day	2/28/22 8:00 AM	2/28/22 5:00 PM	27
29		Closing	9 days	3/1/22 8:00 AM	3/11/22 5:00 PM	
30		5.1 Presentation	1 day	3/1/22 8:00 AM	3/1/22 5:00 PM	28
31		5.2 Report & Calculate all costs	7 days	3/2/22 8:00 AM	3/10/22 5:00 PM	30
32		5.3 Document closeout	1 day	3/11/22 8:00 AM	3/11/22 5:00 PM	31



12 Dec 21							19 Dec 21							26 Dec 21							2 Jan 22							9 Jan 22							16 Jan 22							23 Jan 22							30 Jan 22							6 Feb 22						
S	S	M	T	W	T	F	S	S	M	T	W	T	F	S	S	M	T	W	T	F	S	S	M	T	W	T	F	S	S	M	T	W	T	F	S	S	M	T	W	T	F	S	S	M	T	W	T	F	S													



13 Feb 22							20 Feb 22							27 Feb 22							6 Mar 22							13 Mar 22							20 Mar 22							27 Mar 22							3 Apr 22							10
S	M	T	W	T	F	S	S	M	T	W	T	F	S	S	M	T	W	T	F	S	S	M	T	W	T	F	S	S	M	T	W	T	F	S	S	M	T	W	T	F	S	S														

