

UNIVERSITI TEKNOLOGI MARA

DESIGNING AND SIMULATE PROOF-OF-CONCEPT OF
STORAGE ARCHITECTURE FRAMEWORK TO RESOLVE
CIFS NETAPP NETWORK ATTACHED STORAGE (NAS)
ARCHITECTURAL DESIGN ISSUE

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ABSTRACTS

This project explains how storage works in the IT infrastructure environment. The researcher have analyze on the current IT infrastructure life cycle and storage architecture used in the organization. The researcher's main intention is to design a new storage architecture that can be utilized optimally to achieve the business need of the organization. In addition, the researcher has come out with Proof of Concept testing on how the new architecture works through experiment on the current live storage environment. The main objective was to Design Storage Architecture Framework with snapshot auto-delete policy to mitigate the risk of storage accessibility and reliability issue. And also to simulate the Proof-of-Concept of Storage Architecture designed through simulation and experiment of storage provisioned. This objective was achieve by applying IT Infrastructure Lifecycle Model to design new Storage Architecture Design and also through experimental analysis of storage simulation and experiment of provisioned storage. The researcher managed to achieve desired result of keeping the file system accessible with auto-delete policy implementation, with some tolerance of backup snapshot being auto-deleted. This research proves it significance on designing suitable IT architecture model on storage system for large enterprise , by maintaining storage accessibility with some tolerance on recoverability.

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TABLE OF CONTENTS

STUDENT'S DECLARATION	1
Abstracts	ii
Acknowledgement	iii
Table of content	iv
List Of Figures	vi
List Of Tables	vii

CHAPTER ONE : INTRODUCTION

1.1	Introduction	1
1.2	Research Background	1
1.3	Problem Statement	2
1.4.	Research Objective	4
1.5	Significance of the Research	4

CHAPTER TWO : LITERATURE REVIEW

2.1	Introduction	5
2.2	Network Attached Storage (NAS)	7
2.3	NetApp Storage auto-delete policy	8
2.4	IT Infrastructure Model	9
2.5	Storage Architecture Framework Design	12
2.6	Proof-of-Concept Testing	14
2.7	Storage Architecture Stakeholder	14
2.8	Summary	15

CHAPTER THREE : RESEARCH METHODOLOGY

3.1	Applying IT Infrastructure Lifecycle Model to design new Storage Architecture	16
3.2	Research Model	18

3.3	Hypothesis Formulation	19
3.4	Sampling Design	19
3.5	Method of Data Collection	20
3.6	Data Analysis	20
3.7	Summary	23

CHAPTER FOUR : FINDING AND ANALYSIS

4.1	Comparison of IT Infrastructure Architecture	24
4.2	Revised look of Storage Architecture Design	26
4.3	Proof of Concept Storage Testing	28
4.4	Experimental Analysis	34
4.5	Summary	35

CHAPTER FIVE : CONCLUSION AND RECOMMENDATION

5.1	Conclusion	36
5.2	Research Limitations	37
5.3	Recommendations for Further Research	37
5.4	Summary	38

REFERENCES	39
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APPENDICE

Appendix A: Material / Tool used for Testing Creation, Monitoring and Approval	42
Appendix B: Email Approval by Team Lead for Testing on Storage Infrastructure	43
Appendix C: Project Gantt Chart	44