PRELIMINARY RESEARCH PROPOSAL

"CHALLENGES OF MULTI-CLOUD INTEROPERABILITY"

INTRODUCTION

THE PURPOSE OF THE PROPOSED RESEARCH IS TO EXAMINE THE DIFFICULTIES ASSOCIATED WITH MULTI-CLOUD INTEROPERABILITY.

BACKGROUND

The challenge arises because of the lack of standardized protocols for communication between these platforms.

Standards, architecture patterns, and proper security measures are necessary to ensure smooth communication between different cloud platforms.

RESEARCH QUESTION

- HOW CAN ORGANIZATIONS ENSURE SEAMLESS COMMUNICATION AND DATA TRANSFER BETWEEN MULTI-CLOUD ENVIRONMENTS?
- WHAT TOOLS AND TECHNOLOGIES ARE CURRENTLY AVAILABLE TO AID IN MULTI-CLOUD INTEROPERABILITY?
- WHAT MEASURES CAN BE PUT IN PLACE TO MITIGATE THE COMPLEXITIES ASSOCIATED WITH A MULTI-CLOUD SETUP?
- HOW CAN COMPATIBILITY ISSUES ACROSS CLOUDS BE ADDRESSED TO ENABLE HETEROGENEOUS SYSTEMS TO WORK TOGETHER SEAMLESSLY?

Research Design

1 RESEARCH METHODOLOGY

mixed-methods approac:. This strategy allows for gathering both quantitative (numerical) and qualitative data.

2 SAMPLING METHOD

The sampling method chosen are purposeful and non-probability sampling.

3 VARIABLES

- Independent Variable: Multi-Cloud Interoperability
- Dependent Variable: Difficulties Associated with Multi-Cloud Interoperability

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1 TOOOLS

Online Survey Tool, Statistical Software, Content Analysis Software and Communication and Collaboration Tools

METHODS OF DATA COLLECTION

The primary method of data collection is an online survey and interviews with professionals on the field.

3 PROPOSED SOLUTION

Implementing a universal application programming interface (API) that can communicate with the APIs of different cloud providers using common protocols and languages is one suggested remedy



significance of research

THIS RESEARCH PROVIDES A
CLEAR OVERVIEW OF THE
BENEFITS AND CHALLENGES
ASSOCIATED WITH MULTICLOUD IMPLEMENTATIONS. BY
SHEDDING LIGHT ON THESE
COMPLEXITIES, THIS RESEARCH
WILL ENABLE ORGANIZATIONS
TO MAKE MORE INFORMED
DECISIONS

scope of the research

EXAMINE THE STATE OF MULTICLOUD INTEROPERABILITY AT THE
MOMENT AND OUTLINE ITS MAIN
PROBLEMS. WITH AN EMPHASIS ON
DATA TRANSPORT AND STORAGE,
WE WILL EVALUATE THE
INTEROPERABILITY AND
COMMUNICATION CAPABILITIES OF
DIFFERENT PROVIDERS' CLOUD
SERVICES.

Thank You!