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02228 FAULT-TOLERANT SYSTEMS

Fault-Tolerant Cloud Computing Architectures

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Chapter 1

Introduction

In this report we will describe what cloud computing is, further we will give a detailed description of the architecture and fault-tolerant features of two cloud system, at last we will compare how the systems handle failures and discuss the pros and cons of these methods. As a result of the comparison, we will be able to conclude on what the systems do well and where they might be able to improve.

1.1 Scope

We will focus on the fault-tolerant features of the cloud computing architecture within the two selected cloud systems (Amazon Web Services and Google Cloud Platform).

1.2 Cloud Computing

Brief description of what cloud computing is...

Chapter 2

Amazon Web Services

The Amazon Web Services, henceforth *AWS*....

2.1   Architecture

2.2   Fault-Tolerant Features

Chapter 3

Google Cloud Platform

3.1 Architecture

3.2 Fault-Tolerant Features

Chapter 4

Comparison of Failure Handling

List of faults that the systems handle along with a description of how it's handled and why it works. If the methods for handling the failure differ, we will discuss the methods, highlighting their pros and cons.

Chapter 5

Conclusion

Conclude on our findings, focus on what the systems do well and where it might be possible to improve.

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