

NoSQL in Cloud Computing

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Abstract

A lot of changes in database management system has been made since the inception of cloud computing. Such critical and increasing needs within cloud computing as scalability and elasticity can be fulfilled by the NoSQL databases as opposed to RDBMS¹. In this report we have dived into several primary NoSQL databases used in leading cloud computing vendors, summarizing and discussing detailed techniques as well as analysis with comparisons.

1 Introduction

The formula $\alpha + \beta = \gamma$ resembles the fact that ...[1]

¹Relational Database Management System

2 Motivation

3 Cases

3.1 PNUTS

3.2 MongoDB

3.3 Cassandra

3.4 BigTable

4 Conclusion

5

References

- [1] F. Chang, J. Dean, S. Ghemawat, W. C. Hsieh, D. A. Wallach, M. Burrows, T. Chandra, A. Fikes, and R. E. Gruber. Bigtable: A distributed storage system for structured data. In *7th Symposium on Operating Systems Design and Implementation (OSDI '06), November 6-8, Seattle, WA, USA*, pages 205–218, 2006.