Big data and cloud computing – issues and problems

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ABSTRACT

In recent years there has been an increase in the size of Big Data as a result of the growth of social networks, Internet of Things (IoT), business information, etc. A number of problems arise when using Big Data. They can be solved by using Cloud Computing. There are many cloud solutions for processing, analysis and data storage but their application requires taking account of and analyzing characteristics as scalability, parameters concerning the hardware configuration, the system and the application software availability, price, etc. A comparative analysis of cloud service providers is made in this article, and guidelines for optimal choice of the provider are defined.

Keywords: cloud computing, private cloud, big data.

INTRODUCTION

In recent years trends of information growth at an increasingly large scale have been observed. The terms terabyte, zeta byte and Big Data are circulating in the public domain more and more often. The reasons for big data growth refer to:

- Accelerated growth of the number of IoT and registration of events from radio frequency identifiers (RFID);
- A huge flow of data from social networks in the Internet;
- Accumulation of large volumes of business information along with maintaining the existing one;
- Data from subscribers of the mobile operators;
- Data from devices for audio and video registration;
- Data on the weather conditions and others.

Along with the big data expansion several problems related to its management arise. Those of greater significance are:

Problems in the storage, processing and analysis of Big data, increase of the complexity and volume of the work and lack of hardware equipment and personnel to carry out the process;

Problems with provision of safe storage and information processing in small and medium-sized companies;

Need for spending funds for the purchase of system and application software

Some of these problems can be solved through the usage of cloud services.

1. Cloud services

Cloud services are characterized by a number of features defined by The National Institute of

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Table of Contents Big Data And Cloud Computing Issues And Problems

1. Understanding the eBook Big Data And Cloud Computing Issues And Problems
    - The Rise of Digital Reading Big Data And Cloud Computing Issues And Problems
    - Advantages of eBooks Over Traditional Books
2. Identifying Big Data And Cloud Computing Issues And Problems
    - Exploring Different Genres
    - Considering Fiction vs. Non-Fiction
    - Determining Your Reading Goals
3. Choosing the Right eBook Platform
    - Popular eBook Platforms
    - Features to Look for in an Big Data And Cloud Computing Issues And Problems
    - User-Friendly Interface
4. Exploring eBook Recommendations from Big Data And Cloud Computing Issues And Problems
    - Personalized Recommendations
    - Big Data And Cloud Computing Issues And Problems User Reviews and Ratings
    - Big Data And Cloud Computing Issues And Problems and Bestseller Lists
5. Accessing Big Data And Cloud Computing Issues And Problems Free and Paid eBooks
    - Big Data And Cloud Computing Issues And Problems Public Domain eBooks
    - Big Data And Cloud Computing Issues And Problems eBook Subscription Services
    - Big Data And Cloud Computing Issues And Problems Budget-Friendly Options
6. Navigating Big Data And Cloud Computing Issues And Problems eBook Formats

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