Cloud Computing in Library and Information Science Profession.

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ABSTRACT

Systematization and critical examination of the research literature on the concepts of cloud computing is prevalent in the Library science. The present study is an attempt towards identification and Information professionals. The present study is based on an exhaustive review of the published literature in the field of cloud computing and library and information science. Strategies, model framework and existing practices for adoption of cloud computing in library practices have been exclusively dealt with existing frameworks and literature which needs to be worked out in the future researches. The study will provide a theoretical background for the study of cloud computing with a slant to library and information science discipline.

Keywords cloud computing, Library information and science,LISTA, DOAJ,Cloud base library service, SPA.

INTRODUCTION

Libraries continue to be not only early adopters of new technologies, but also early users of cutting edge technologies they seem as being effective to their mission of providing information for all. Adoption in the recent year the computer technology innovation that will continue its rise in usage in the present paper is an attempt to explore the concept and the existing literature on cloud computing association with the librarian.

Objective
1. Cloud computing library profession.
2. Scope of cloud computing in LIS profession
3. Opportunities and threats LIS profession cloud computing platform

4. Requirement competencies among LIS Professionals for their involvement in cloud computing environment.

METHODOLOGY

Cloud computing LIS professional, literature survey method was found, cloud computing librarianship from various data bases web of science Emerald, science, Direct Library information science and technology abstract, Directory of Open Access Journals(DOAJ), Scholar J-star key word computing and libraries.

Current research work cloud computing is a new topic can be a conceptual map to library and information science for extracting the idea that underline within the available literature of cloud computing the conceptual frame work approaches the steps towards cloud adoption in the academic libraries. Cloud computing is a specialized work. This topic can be branches in the conceptual map. Specialized use analysis case and SWOT analysis has been considered as the part of the cloud. The proposed security measures and standards are part of the cloud architecture for academic library. The arrows appearing as link of group are indicates the dependency relationship among them.

DEFINITION AND CONCEPT OF CLOUD COMPUTING

Word cloud has been mystery for the scholars. In order to understand cloud computing it is essential to understand the concept of cloud. Defining the element of cloud element of cloud computing and tracing its root has witnessed divulging viewpoint. All the proportion cloud to the concealing nature of technology framework global what they do not realize is that there is a massive amount of data being pushed globally in real time to make these applications work for them, the scale of which is simply amazing [1]. Complementing to the studies argue that "clouds can be defined as computers that are networked anywhere in the world with the availability of paying for the used clouds in a pay per-use way, meaning that just the resources that are being used will be paid for.[2]

There are some definitions of cloud computing as follows:-

According to Vangie Beal 'Cloud computing is a type of computing that relies on shared computing resources rather than having local servers or personal devices to handle applications.'

The National Institute of Stands and Technology has given more comprehensive definition of cloud computing as 'a model for enabling ubiquitous, convenient, on demand network access to a shared pool of configurable computing resources (e.g. networks, servers, storage, application and services) that can be rapidly provisioned with minimal management efforts or service provider interaction.'[3]

The term 'cloud computing' is based on a collection of many old and few new concepts in several research field like service oriented architectures (SOA), distributed and grid computing as well as virtualization, it has created muchinterestin the last few years. This was a result of its huge potential for substantiating other technological advances while presenting a superior utilitarian advantage over the currently under utilized resources deployed at data centres. In this sense, cloud computing can be considered a new computing paradigm that allows users to temporary utilize computing that allows users to temporary utilize computing infrastructure over the network supplied as a service by the cloud provider.

The cloud computing is the on demand availability of computer system resources mainly data storage and computing power the term cloud generally used to described data centres which is available to many users with the help of internet. Cloud computing relies on sharing of resources to achieve coherence and economies of scale.

CLOUD COMPUTING: INTELLECTUAL CONTESTATIONS

There is an intellectual contestation of varied interpretations regarding the implication of Cloud computing in libraries. Sadeh feels that "The

widespread adoption of Web search engines and other Internet tools and services and the emergence of players such as Google Scholar and Windows Live Academic in the scholarly information-retrieval arena have reduced users' dependence on library support to fulfil their information needs." [4]. The Web has also expanded the scope of services provided by librarians. Cloud computing has emerged as a forefront research channel that has enormous storm within itself that can change the face of IT industry. The importance of cloud computing as a technology of future has drawn attention from a diverse group of researchers. Many scholars have attempted to study cloud computing from different perspectives targeted to serve different purposes which states that cloud computing is hardware-based services offering compute, network and storage capacity
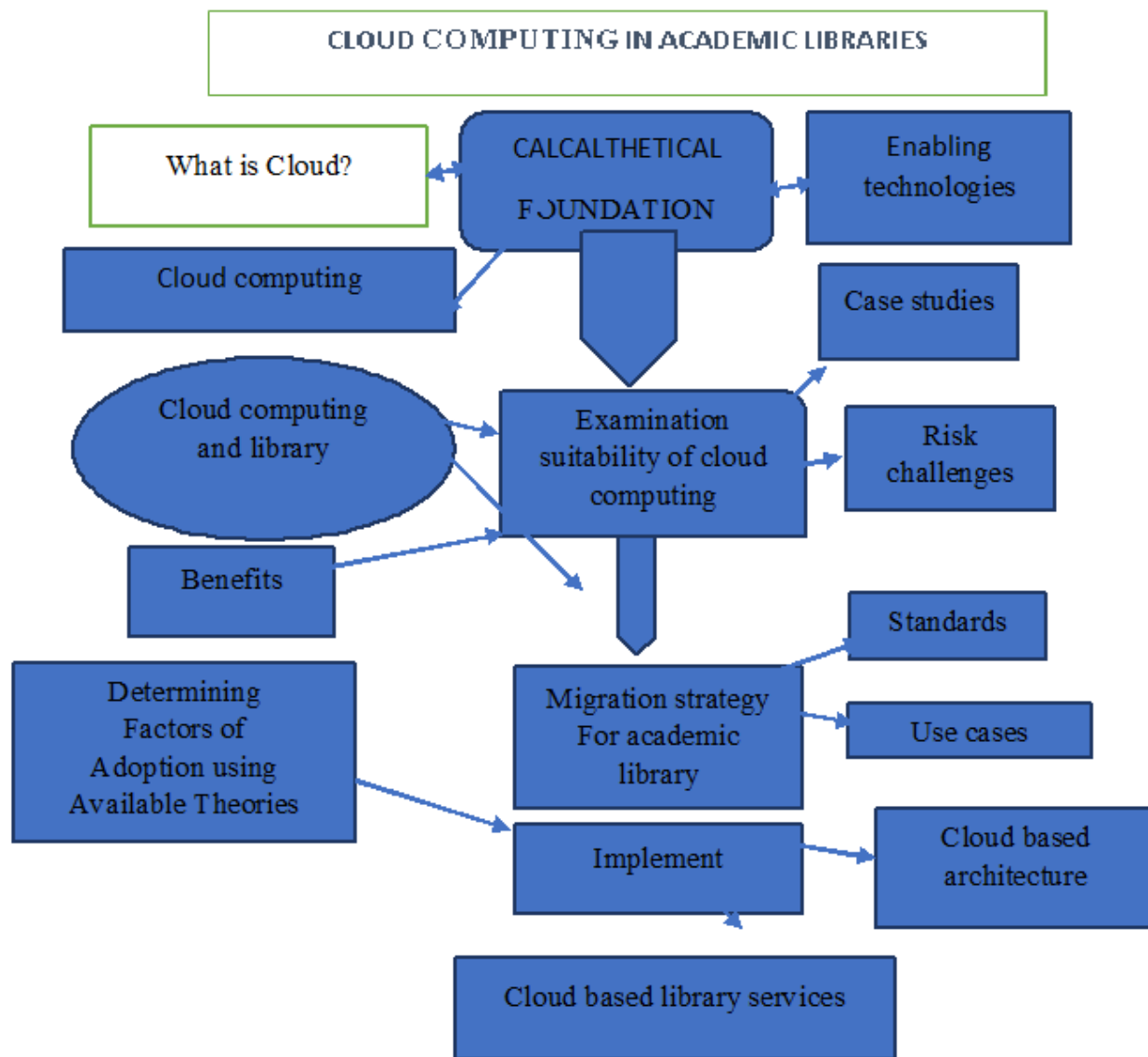
Cloud computing library

Library and information centres are constantly in search of low-cost and best solutions that may enable them to serve the user needs efficiently and effectively. Ironically, with the involvement with IT the commitment as well as services has been miserably infested. Under such conditions, cloud computing is the saviour of all the ebbs of the information technology. Cloud computing is a mega change that has robbed IT of its traditional obligations

and empowered the end users with on demand utility computing. Cloud-based services are set to transform the way libraries work, unleashing librarians. Although, the development of cloud based libraries is going to take a long time it is inevitable to look at various opportunities on offer for benefits of cloud computing in libraries in cloud computing that necessitates its adoption.

Benefits of cloud computing in libraries

In the available literature cloud computing has been discussed as a new technology that can provide several advantages, both strategic and operational, to its adopters however the cloud computing adoption rate is not growing as fast as expected. Computing reduces the cost involved in the IT-based services by the organizations and freeing them from the expense and hassle of Cloud based library services arriving to install and maintain applications locally.[5]

Cloud base library service

There are enormous possibilities in libraries on a cloud computing platform. Scholars have put forth various avenues where libraries can benefit and justify themselves in the changing paradigm library services NCERT or ICSE clouds where CBSE courseware, educational material and books could be hosted in the cloud organised through digital repositories by the librarians which can be downloaded from any place at a far less cost being shared by millions of students.

CONCLUSION

Academic library cloud computing and information science is a good platform. Library cloud have many issues such as keeping important data secure has always most crucial and most of corporation have raised red flag to the international organisational standardization. In term of service and service level agreement cloud computing is very useable for service search, cloud base service and cloud based access to library collection through the OPAC. Through cloud computing the demand based services as well as delivery base services are possible to perform. Cloud computing is useable service for academic library. Cloud computing technology is helpful to improve the service performance of library. Cloud computing is study based software service and it also helps for

growing relationship between academic library and cloud computing.

Conflicts of interest: The authors stated that no conflicts of interest.

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