
IMPORTANCE OF CLOUD COMPUTING IN EDUCATION

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ABSTRACT

The educational sectors are looking for options which are chipper and more convenient in terms to improve the performance and ranking of the students. Cloud computing data centers can be sliced into various servers and virtual machines which can be a solution to their problem, and this are easy to access to the computing services on demand. Cloud computing can also be used for research work for various platform. Almost every educational stream need computing today for various purpose, these purposes can be solved by implementing different software serves through which they can interact and performance tasks. The present research paper highlights the importance of cloud in educational organization.

Key Words: Cloud computing,, college information system (CIS), Information Technology.

Introduction

Educational institution consist a large Information Technology infrastructure and for managing it requires many efforts, time and person power and money , still student are not able to get the complete benefits of the Information Technology structure they have been provided. Student required software for simulation, experimental performance and manipulation of statically data. These software's are high end software and required skilled people to work with, thus rather this software can be installed in the virtualized environment on the clouds data centre. Internet can be medium to provide access to this software with high reliability. Virtualization technology helps creating multiple client nodes for student, these nodes can be easy access through Internet .Although there are various company which are adopting cloud computing to provide various application as service, Google has introduced Google Doc through which users can use the feature of office application online without installing them on the system but directly in the web browser, this software are useful and very flexible for working, the only

need to gain access to Google Doc is to have account with Gmail, a free mailing service provided by Google. Thus cloud and virtualization will change the way student's interaction with the resources.

Problem Statement

Now a day's each and every organization is using online systems for everyday working .The investment in the infrastructure facilities including the operating expenditure ,cost, manpower reliability, security plays important role of development of organization. Every organization is not able to maintain separate setup therefore there is need of a various types of clouds to provide the services to the user with the help of web services.

Significance of the Study

To study the cloud computing for college information system has broad scope because the access to the information anywhere at any time. Development of Cloud computing for college information system provides services likes on demand self –services ,broad network access, virtualization, low cost software's ,multiple accountabilities, services orientations, also it gives the advanced security technologies.

Objectives

1. To study the working pattern of college information system
2. To design cloud computing Architecture for college information system

Hypothesis

1. Designing and developing cloud computing for college information system to achieve proper resources management and concept of virtualization can be implemented effectively.
2. Some of the colleges prefer to provide services via cloud rather than a physical data centers.

Table No 1 Showing Awareness of cloud through Proper management of resources

1. Strongly Agree, 2. Agree, 3. some what agree, 4. Disagree, 5. Some what disagree 6. Strongly Disagree

Awareness about cloud	Proper Management of Resource						Total
	1	2	3	4	5	6	
Yes	31	41	20	17	19	8	136
No	3	8	13	11	3	6	44
Total	34	49	33	28	22	14	180

For 5 Degree of freedom at 5% Level of significance a table value is 11.07 and the calculated value is much greater than the table value and hence the hypotheses stands rejected. Therefore it may be concluded that designing and developing cloud computing for college information system .to achieve proper resources management and the concept of Virtualization can not be implemented effectively

2. Some of the colleges prefer to provide services via cloud rather than a physical data centers.

Table No 2 Table Showing college Uses cloud computing for

Providing services rather than physical data centers

1. Strongly Agree 2. Agree 3. Somewhat Agree 4. Neutral 5. Disagree 6. Strongly Disagree

Use of cloud computing	Response parameters						Total
	1	2	3	4	5	6	
	37	53	32	28	17	13	

From above information it is concluded that some college's uses cloud computing for providing various services rather than physical data center. We observed that out of 180, 53 respondents which is 29.44% of total are agreed about the cloud computing services rather than physical data center. Further 37 numbers of respondents which is 20.55% of total sample are strongly agreed about the usage of cloud computing for providing services rather than the physical data centers. It is also further observed that the said statement in all 122 respondents are out of 180 are strongly agree and somewhat agree. Therefore it is to be concluded that some of the colleges prefer to provide services Via. Cloud rather than physical data centers.

Conclusion

The present concluded of the study are based on the Primary data, discussion with the various Sources such as staffs, student, visitors and other concern peoples and observation of the researcher while doing the Research.

1. Cloud computing for college information system provides effective usage of the college resources properly as compared to existing system.
2. Majority of respondents are Agree that cloud computing is very useful in college information system.
3. Cloud computing helps significantly to minimize various costs on the various components of college information system, such as Operational cost and infrastructural costs.
4. Cloud computing for college information system provides security and privacy in sensitive information about college.
5. All the faculty member thinks that cloud computing will increase the efficiency of the college information by providing proper information in quick time.
6. Majority of respondents are not satisfied with current information transfer system and they think that cloud computing will give better services to students, staff.

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