Pros and Cons of Cloud Computing Technology

Sandeep Mukherji[1] Shashwat Srivastava[2]

[1]Lab Instructor, Department of Computer Science and Engineering, Shambhunath Institute of Engineering and Technology Allahabad, India

[2] Lab Instructor, Department of Computer Science and Engineering, SP Memorial Institute of Technology Kaushambi, Allahabad, India

Abstract: *Cloud computing technology today is the most enchanting technology that has become something for every business users or plans to move to. There are different types of cloud beneficial for the different users of the World, for the simple public cloud is most suitable, for the corporate world private cloud raise its hand and for the other users who are not completely corporate nor public hybrid cloud is chosen, all these three categories make all the uses complete for the world. Cloud computing is a boon for the business solution that every enterprise wants to adopt it. But having lots of pros in cloud computing, there are some cons also. This Paper is trying to put some light on those areas.*

Keywords: Clouds, Cloud computing, booming technology, Benefits of Clouds, Demerits of Clouds.

1. Introduction

This is a new age in which we are moving from the age of iron and stone to the age of Technology, we participate on the biggest platform - the Internet. The cloud is not a simple cloud literary saying not something floating above our head but it is a real technology that combines data to open the doors for our future generation. We get together upload pictures, make transactions, performs learning, do chat, post blogs, or even provide a social attachment to our colleague. With this feature of Internet it has given a boon for the Internet surfers by providing clouds for the Users.

With the advancement of Technology and users need, it is not a big surprise that cloud computing has become now a talk of the town. Cloud for the person who has little knowledge of internet is enormously effective. People now are understanding and grasping the usefulness of the cloud that how much effective and beneficial cloud may be for them.

2. Pros in Cloud Computing

Let's go through the pros and cons of **cloud computing for businessmen and corporate**. Let's begin with the **Pros** in Cloud Computing:

1) **Dumping the costly systems:** Cloud hosting allows the businessmen to expense minimum cost for the systems management. Since, we can do everything in the cloud, the local systems need not to be used or have very less to do with thus saving the pocket that was used for costly devices.

2) **Providing various options to access:** Allowing the user to access cloud for various options irrespective of Computer only, making it most popular technology now a days. A person can access the cloud out of office through Mobile IPod tablets etc making the work for the users easy and efficient. It's not only increasing the efficiency but enhance the services provided to the consumers. The consumer is made available with the desired files and documents with via single touch.

3) **No Software maintenance Expense:** Cloud computing is made as such it fulfills all the need for the software thus depriving the user to use costly software systems for the business. All the useful software are already kept of the cloud servers which makes the user tension free. It completely removes the scarcity for the users who can't afford the costly and expensive software and their license cost. Another booming feature of time to time software up gradation saves company's time and money.

4) **Pre Processed Platform:** The cost of adding new person is not affected by the setup of the application, arrangement and installation for the new device. Cloud applications need not to be changed and can be used as it is, so there is no need to make changes on the platform for the new person or application to be added into it.

5) **Say No to Server:** Using Cloud for the business terminates the huge cost expense for the server. The extra expense involved in the maintenance of the server is removed up to some extent.

6) **Centralization of data:** Other centralization of all the information of multiple projects and accessing data from the remote location with a single click is the most impressive assets of the Cloud.

7) **No data is lost, can be recovered easily: Cloud computing** provides a quick data recovery as all the data is stored in the cloud for the backup automatically. The recovery of the data is very costly or not possible in the personal Business Servers and thus waste lot of time and money.

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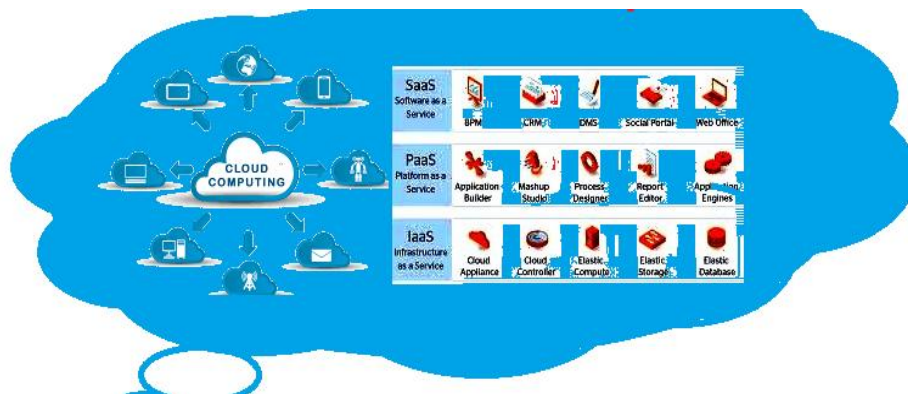
Figure 1: Cloud Computing and its types

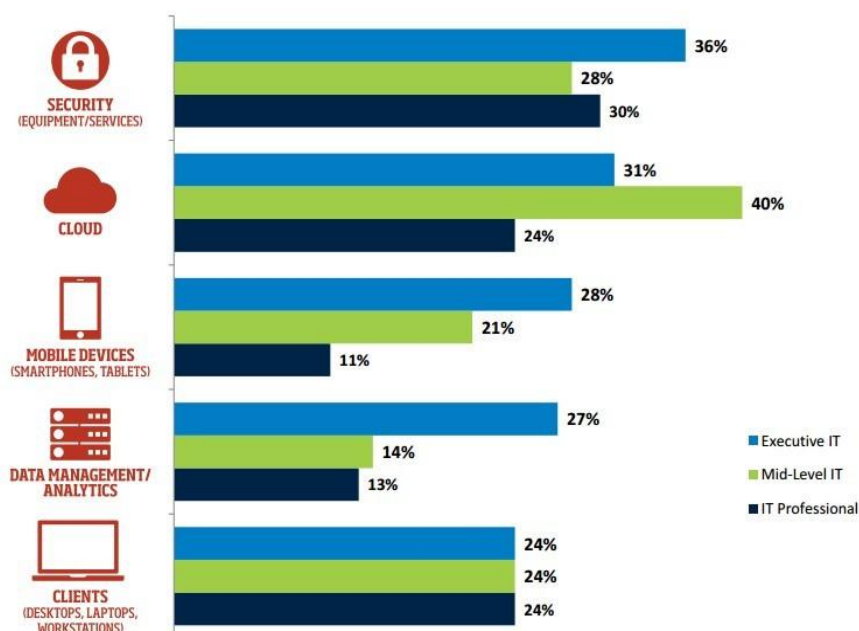**Figure 2:** Various Application of Cloud Computing

Figure 3: Use of Cloud in Different Sector with percentage

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11) **Capable for sharing**: When we talk about document accessibility then there is also a concern of Sharing too.

You can share the documents through email to your colleague or friend whenever you want to.

12) **Secure Store and Accessibility**: Cloud Services provides a secure region and access to the data stored by the users, there is no issue and threat of losing and data corrupt. So, users can store the data with eyes closed.
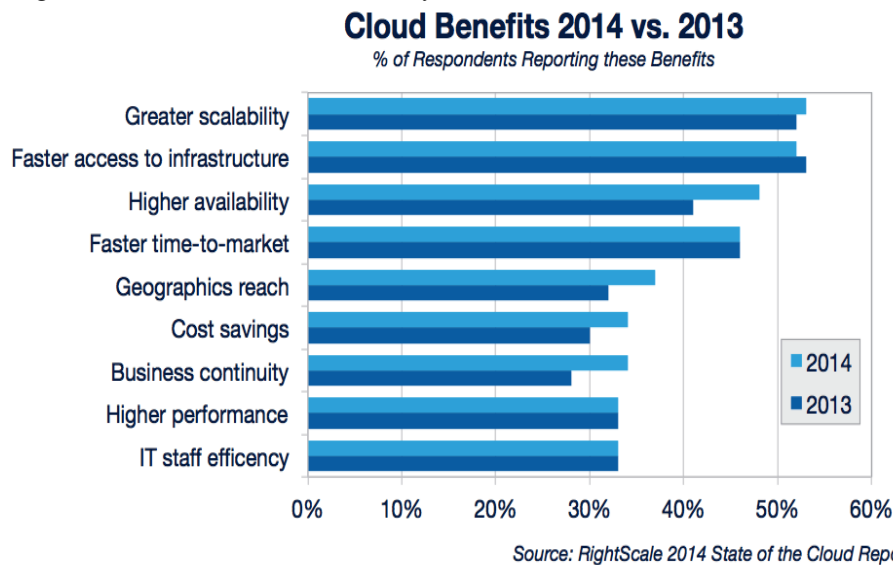

Figure 4: Growth Percentage of Cloud Usage year By year

So, above chart clearly explains about all the benefits and year by year increment of clouds usage. So, these were the advantages, now let us go through the disadvantage of cloud computing as well.

3. Cons in Cloud Computing

1) **No Internet No cloud**: To access cloud, an internet connection is a must. So we can say it's a big hurdle for the growth of cloud usage all over the world.

2) **Need a good Bandwidth**: With a low bandwidth in internet, we cannot utilize the benefits of the clouds completely. Again, even a high bandwidth satellite connection can lead to poor quality performance due to high latency. So, to make the availability of all these things simultaneously is little difficult to achieve.

3) **Accessing multiple things simultaneously can affect Quality of cloud access**: If a user wants to have multiple internet work at a same time then he/she has to compromise with the cloud benefits. Cloud accessibility needs a good Internet speed , so if users is listening to audio, watching Video while accessing cloud he can have bad experience.

4) **Security is Must**: Cloud computing keeps your data secure but for maintaining the complete security, assistance from the IT firm is needed for the better experience. If the cloud is used without any proper assistance and information his/her business can become vulnerable to hackers.

5) **Hard and Non-negotiable Agreements**: There is hard non-negotiable tie up from some of the Cloud vendors for the business personnel which makes the business men think twice to use the cloud.

6) **Cost Comparison with traditional Utilities**: Software present in the cloud may look like an affordable option when it is compared to traditional installation of software in houses. When the software is accessed from the cloud it may charged you some extra which is not applicable when installed in the house or taken for home. So, providing many features at a time it is also putting clients to think about their complete requirement and free availability in the cloud as you are charged with the additional features.

7) **Problems to programmers with no Hard Drive**: For the Programmers hard disk is must, so if we are thinking about no storage in system then to keep the hard disk is wastage of money, but on the other hand it is must for the programmer to have the hard disk for their usage.

8) **Lack of full support**: Cloud-based services are not fully dependable. When a user faces some problem while taking the facility of cloud they are not supported as per the charge they are imposed with, and they are actually dependent of the FAQ and user manual to solve their problem which is not complete fully for the problems they are facing. This lacks transparency in the service, which makes user doubtful to be dependent fully on the cloud services.

9) **Incompatibility in software**: Several times, problem is arises due to compatibility of the software with the clouds application. This is due to the fact that some applications, tools, and software are compatible with the personal computer only, and when they are connected to the internet they doesn't support the functionality of that fully.

10) **Lack of insight into your network**: It is completely true that cloud computing company provide you to access disk utilization, CPU and application. But it makes the insight of the user minimal to their own network. So, when any bug is found on the code, or a hardware problem or anything, without recognizing the problem it is impossible to fix it.

11) **Minimum flexibility**: The application and services run on a remote server. Due to this, enterprises using cloud computing have minimal control over the functions of the software as well as hardware. The applications can never be run locally due to the remote software.

SaaS cloud computing applications offer lower total cost of ownership. SaaS applications do not need large capital investments for support infrastructure or licenses. The costs of cloud computing keep on varying, and it becomes important to check ongoing prices.

To conclude, there are pros and cons of cloud but cloud technology has become a compulsory part of every business venture. So, one cannot think grow without taking the benefits of cloud computing. With careful analysis and precautions the problem in of cloud computing can be minimized. As it is completely true that cloud computing is one of the booming technology which has impressed the business world. The pros outweighs the cons of cloud computing. While having so much disadvantages Cloud Computing still growing its image all over due to the impressive advantages i.e. minimum costs, easy access, data backup, data centralization, sharing capabilities, security, free storage and quick testing speaks for itself. The argument becomes even stronger with the enhanced flexibility and dependability.

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