SPECIFICS ABOUT THE CONCEPT OF CLOUD COMPUTING

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Abstract: *Cloud Computing has two distinct meanings. First one is the use of the a commercially available service over the internet in real time from storage to web applications. Second - it describes the technology and architecture to deliver cloud services, a combination that differs depending on the service being delivered. There are defined benefits like energy, infrastructure and time saving. You wouldn't need to carry around a physical storage device or use the same computer to save and retrieve your information. This concept are based on enhanced security policies, because all the information is stored in different complex databases, must be secure and easy accessed at the same time. So, it is an innovation*.

Keywords*: Cloud, storage, utility, service, information, benefit.*

1. Cloud Computing

It is quite difficult to accurately define **Cloud Computing** and there doesn't seem to be a consensus either on a single meaning. It takes a different meaning based on the utility.
Cloud Computing has two distinct meanings -
It is the use of the a commercially available service over the internet in real time from storage to web applications.
It describes the technology and architecture to deliver cloud services, a combination that differs depending on the service being delivered.

Cloud Computing Services are classified as -

Cloud Infrastructure – provides storage and cloud resources on demand through virtualization or grid computing

Cloud Storage – Storage as a Service – this builds on cloud infrastructure and focuses on renting of storage on the Internet. Amazon provides a solution for these two services through Simple Storage Service (S3) and Elastic Cloud Compute (EC2)

Cloud Platform – Platform as a service – offers spaces to develop and operate web-based applications e.g. deployment, hosting, etc. Examples are: Public APIs from Google Maps, Flickr, etc.

Cloud Applications – Software as a service – where applications hosted on the internet function as a traditional application installed on the physical machine. Some examples are services provided by Google as Gmail, Docs, Calendar [1].

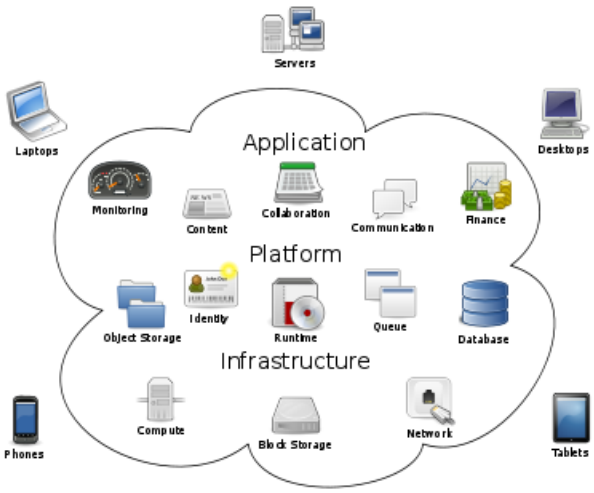

Figure 1 Cloud Computing Services

Today it is widely accepted that Cloud Computing is not far longer. I now have a variety of services via Cloud is as much or System Service and, of course. Each organization shall provide to the creation of Cloud Computing for the Enterprise. And types of services such as the processing of the management infrastructure and capabilities. Expanded continuously. The ability to provide services for users who consistently and effectively implemented through the Internet and the Virtual Desktop

Smarttech experience in providing services and expertise in particular.
Is a management system based on the needs of users. The user can specify the requirements to the system software, the Cloud Computing Users can use a Web browser to interact with the software. The software will be required to allocate system resources and services to meet the needs of users. The system can raise and lower the amount of resources. To offer services to fit the needs of the people all the time. The user does not need to know how much work is behind events like the Users to use a Web browser to interact with the program.

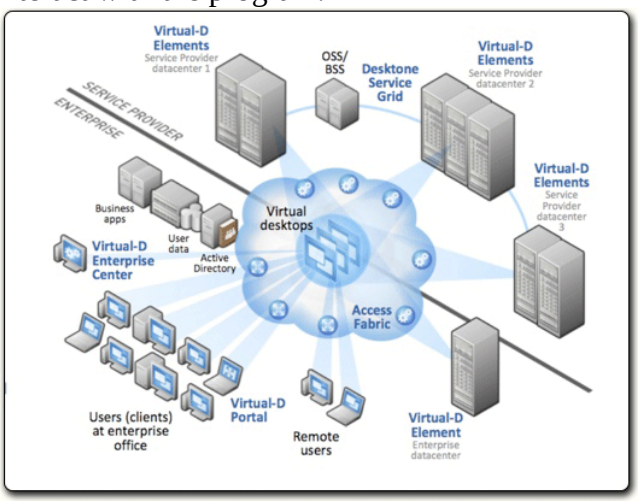

Figure 2 Cloud storage system architecture

2. Benefit from the use of Cloud Computing

Computer. Located anywhere. Users do not need to know the location request to the Internet or Intranet network with sufficient bandwidth is bandwidth. Will allow us to move the computer to build data center in a cost as low as the price of land. Near a power plant or energy prices. The air is cool. To save energy in the cold to sustain the system.

The computer use due to cost-effectively allocated to the large number of users. Makes it possible to design a system that does not require the use of the hard work for you too.

Flexibility. You can expand or reduce its infrastructure and ease of development and change can increase the number of machines when demand is higher.

The budget for the maintenance of computer systems and network infrastructure and software licenses. To save electricity.

The separation between applications and systems work. The program can be moved back and forth on the existing system is stable because it can be higher. Using multiple sets and move away from the computer system that crashes easily.

Safety (Security) high because every All programs and files are stored in Supercomputer. Public at large or stored in a high-speed Network [2].

3. Cloud Storage

A typical cloud storage system architecture includes a master control server and several storage servers.

Comedian George Carlin has a routine in which he talks about how humans seem to spend their lives accumulating "stuff." Once they've gathered enough stuff, they have to find places to store all of it. If Carlin were to update that routine today, he could make the same observation about

computer information. It seems that everyone with a computer spends a lot of time acquiring data and then trying to find a way to store it.

For some computer owners, finding enough storage space to hold all the data they've acquired is a real challenge. Some people invest in larger hard drives. Others prefer external storage devices like thumb drives or compact discs. Desperate computer owners might delete entire folders worth of old files in order to make space for new information. But some are choosing to rely on a growing trend: **cloud storage**.

While cloud storage sounds like it has something to do with weather fronts and storm systems, it really refers to saving data to an off-site storage system maintained by a third party. Instead of storing information to your computer's hard drive or other local storage device, you save it to a remote database. The Internet provides the connection between your computer and the database.

On the surface, cloud storage has several advantages over traditional data storage. For example, if you store your data on a cloud storage system, you'll be able to get to that data from any location that has Internet access. You wouldn't need to carry around a physical storage device or use the same computer to save and retrieve your information. With the right storage system, you could even allow other people to access the data, turning a personal project into a collaborative effort [3].

Conclusion

Cloud Computing is based on service over the internet in real time from storage to web applicationsand also describes the technology and architecture to deliver cloud services. Nowadays, information security is an important feature, so iCloud can offer the possibility to stock all the infotmations and applications we need in a safety virtual space, where we can enter how many times we want for processing.

Technological part is based on sofisticated processes, but there are sufficiently clear for our understanding. The essential is to perceive the theoretical meaning of this Inteligent Cloud.

Day by day, appears more suppliers that provides this kind of service, so it means that is a real oppurtunities for our informations, applications and infrastructures. Our future consists of using different technologies based on sophisticated structures, but its will make our activities more simple and useful. So, in my case, Cloud Computing will be a simple part of our everyday life.

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