CLOUD COMPUTING

Cloud computing is defined as the practice of using a network of remote servers hosted on the internet to store, manage and process data, rather than using a local server or personal computer. Cloud computing is particularly useful as one of its main upsides is that its users can (with the help of companies that provide cloud-based services) store and access files and applications on remote servers which allows them to be able to manage this virtual information without having to be in a specific place meaning that the user is able to utilize their work from anywhere in the world as long as their files continue to be stored on those servers. It is vital to understand that cloud computing can provide their services via public or private means. Private cloud services are cloud computing resources that are used exclusively by a business or organization and the services and framework are always being maintained as well as being devoted only to a specific company or organization which is why private cloud computing is considered to be a more reliable version of cloud computing as infrastructure stored with private cloud services are able to have a greater levels of control and security with files. Public cloud computing however is usually owned and operated by third party cloud service providers and distributed over the internet for a fee, examples of this are companies such as Microsoft Azure and Amazon Web Services. This type of cloud computing is managed by that specific third-party service provider and occupants of these services share the same hardware and storage devices. Public cloud services are especially useful as there is no need to purchase other bits of software and hardware as the subscription or fee you pay for allows you to use most or if not all the features that these cloud service providers have distributed. In terms of the state that cloud computing is in and how much it is being acclimated into the way that we are caching and overseeing our data, the concept of cloud computing as well as its conception are still in its beginning stages despite that fact, cloud computing is being implemented by small and large businesses as well as government agencies and non-profit organizations. Cloud computing is comprised of three differing services which are: Software-as-a-service (SaaS), infrastructure-as-a-service (IaaS) and platform-as-a-service (PaaS). SaaS is basically the licensing of a software application to customers which involves paying a subscription or a pay as you go service from the customer to continue to access the software, an example of this is Microsoft 365. Iaas involves clients being able to access cloud services via outsourcing and instead of having to purchase the hardware and software they need, other third party companies can do it for them which allows for the customers to be able to utilize these companies services on demand instead of having to procure their own means of operating and storing data. Finally, PaaS is a service that is more complex than the other two as it involves the creating of software that is distributed to users by other companies over the internet. According to learn.g2.com, they say that analysts at IDC estimate that the future of cloud computing will involve “75% of data operations to be carried out outside of the normal data center. They also state that 40% of organizations will deploy cloud technology, with edge computing becoming an integral part of the technological setup”. It is said that with the help of the Internet of Things (IoT), which involves the sending and receiving of data over the internet via different digital devices, will result in faster high quality, faster loading services that can result in data to be delivered and received at a quicker rate.

A greater increase in the development and progression of cloud computing will result in increased storage capacity in which more and more businesses are already incorporating cloud computing into their businesses and that number will continue to increase as cloud providers are able to provide more data centers to help store files for businesses at a lower price. Cloud computing in terms of security is a secure service however not fully, it also does not help cloud computing image that some small businesses that provide these services are not providing any security at all and are endangering the privacy of their tenants. This over time with the increasement of people using cloud computing will result in more providers strengthening their security towards data in their servers and lead to a greater all round reputation for cloud computing and its ability to protect the files of clients. Businesses are the stakeholders most likely to be affected by the development of cloud computing as the growth and efficiency of cloud computing aligns with most businesses goals which are to be as efficient and profitable as possible. Since cloud computing is very cost efficient, a growing portion of organizations are already leaning towards the option of using cloud-based services as it already allows the access from anywhere for employees of business to access data from anywhere and can help save costs by not mass purchasing computers to be used when employees have access to their own personal devices which can be utilized to achieve the same result. With a greater proportion of people leaning towards the use of cloud computing in the future, it will result in the need for more service providers and other companies to provide cloud-based services that will create more employment opportunities for individuals to begin startup businesses regarding cloud based services as well as employees of those business to grow in number.

In my daily life, the ongoing development and expansion of cloud computing could help me achieve my goals of starting my own apparel business. Any ideas and designs that I create can be stored on the cloud and I can access that work anywhere I go so that I can display it to colleagues, family or whoever I choose. I would be also content with how secure my files and data would be as I would look for a third-party cloud service provider that are notorious for their customer privacy and trust them. The ongoing growth of cloud computing could also lead to easier communication with work partners and associates as they would also be knowledgeable in the uses of cloud-based services and would allow for other businesses who wish to collaborate with mine to use cloud based services to help allow interactions between them to become easier. This may also affect my friends and family as I also have an older sister who wishes to start her own cosmetic line however is not very accustomed to employing cloud computing to help her store and manage her data, so the more prevalent cloud computing becomes in our society, it would lead her to have to be prepared to use cloud computing in the assistance of staring and running her cosmetic line.

REFRENCES

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