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Journal of Theoretical and Computational Science

Perspective

A Brief Note on Cloud Computing

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INTRODUCTION

Different services are delivered through the Internet using cloud computing. These resources include equipment and software such as servers, databases, networking, and software for data storage.

Types

Like a chip or a phone, cloud computing is not a standalone piece of technology. Instead, it is a system made up largely of three services: Platform-as-a-Service (PaaS), Infrastructure-as-a-Service (IaaS) and Software as a Service (SaaS).

Software as a Service (SaaS): A software program is licensed to clients as part of the Software-as-a-Service (SaaS) model. Usually, licenses are made available on demand or on a pay-as-you-go arrangement. Microsoft office 365 contains a mechanism like this.

Infrastructure-as-a-Service (IaaS): IaaS is a technique for supplying anything over IP-based connectivity as part of an on-demand service, including operating systems, servers, and storage. Clients can obtain software and servers through an on-demand, outsourced service rather of having to buy them outright. IaaS systems like IBM Cloud and Microsoft Azure are well-known examples.

Platform-as-a-Service (PaaS): The most complicated of the three cloud computing levels is Platform-as-a-Service (PaaS). PaaS and SaaS are quite similar, with the main distinction being that PaaS is a platform for developing software that is supplied *via* the Internet rather than offering software as a service. Platforms like Heroku and salesforce.com are part of this strategy.

DESCRIPTION

Advantages

Companies from all industries may profit from using cloud based software, which can be accessed by browser or native apps on any device. Users may seamlessly transfer their data and settings from one device to another as a consequence.

Using cloud computing for file access is simply the tip of the iceberg. Users may check their email on any computer and save files using services like drop box and google drive thanks to cloud computing. Users may back up their music, data, and images using cloud computing services, guaranteeing that they will always have access to them in the case of a hard drive accident.

Fast internet connections can replace expensive server farms and IT staff in businesses, allowing workers to do jobs online by interacting with the cloud. People may conserve storage space on their computers or laptops by using the cloud infrastructure. Software businesses may now sell their wares online rather than through more conventional, tangible ways like discs or flash drives, which allows customers to upgrade software more quickly.

Disadvantages

There are hazards of course, with all the speed, efficiency, and innovations that come with cloud computing. Security has always been a major worry with the cloud, particularly when it comes to private financial and medical documents. Although rules require cloud computing firms to strengthen their compliance and security procedures, it is still a problem today. Important data is encrypted for protection, but if the encryption key is lost, the data is gone as well.

Cloud computing firms servers are susceptible to internal errors, power outages, and natural calamities. A California blackout may render customers in New York helpless and a Texas company could lose its data if something causes its Maine-based provider to fall. This illustrates the geographical reach of cloud computing.

CONCLUSION

There is a learning curve for both employees and management as with any technology. However, since so many people may access and alter data through a single gateway, unintentional errors might spread across the whole system.

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Received: 17-Jan-2023, Manuscript No. JTCO-23-21423; **Editor assigned:** 19-Jan-2023, PreQC No. JTCO-23-21423 (PQ); **Reviewed:** 02-Feb-2023, QC No. JTCO-23-21423; **Revised:** 12-Apr-2023, Manuscript No. JTCO-23-21423 (R); **Published:** 29-Sep-2023, DOI: 10.35248/2376-130X.23.9.196

Citation: Gabriel A (2023) A Brief Note on Cloud Computing. J Theor Comput Sci. 9:196.

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