

Analysing Doctor and Patient Medical Details Retrieval by Proxy Re-Encryption Method Using Cloud Computing

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Abstract

In many of the fields for the storage purpose most of the peoples used by this cloud computing. In cloud computing many technics are used for the storage and security. Cloud computing is mainly used for the security purpose to make efficient. Many of the clients can store and activate through offline mode.

So these papers explained about the newly technologies that used and experimented by the authors. By using the different types of technologies the quality and quantity of performances increases. By the execution of corresponding security techniques many cloud providers are safeguarded data's, images etc. Security is the most important performance that plays a vital role in cloud computing.

Introduction

Cloud computing is also known as ON-DEMAND computing. It is a kind of internet based computing where shared resources data's are provided. It also provides a shared pool of configurable computing resources. The security also plays an important role in this scenario. Set of control based technologies and polices designed to regulatory compliance rules and protect information. Methods of cloud computing plays a major role as it guaranteed data protection from the cloud service provider, in order to increase the security and confidentiality in cloud. The example application when a cloud computing play a vital role in e-health.e-health is used in cloud and produces good confidential and security as cloud is an online storage process.

Xinfeng Ye [1], cloud users usually host user's data and applications. In this paper the author discovered the discretionary access control and cryptographic techniques to secure the user's data and applications.

Because of this cloud users delegate their access permissions to other users easily. To obscure the access control, the proposed system of cryptographic method is used in this scenario. For the confidentiality purpose data encryption is used in this segment. The main use of proposed scheme to safeguard the security that makes user to work more flexible and easy to use.

KatsuyaSuto[2], Communication quality is one of the most important source in the network field. The concept of cloud radio access networks (C-RANs) is discovered for the emerging service in the future network environment. In this paper the author established to envision a C-RAN based on passive optical network (PON) exploiting power over fibre (PoF). It achieves low installation and operation costs since it is capable of providing communication as services without external power supply for large amount of remote radio heads (RRH). Due to the issue of fibre fuse, this network needs to reduce the optical transmission power. The quality of experience (QoE) is used for the diversification, devices etc. based on the user's perspective, which is different from previous approaches that aim to guarantee quality of service (QoS). Therefore the author proposed a power efficient network operation strategy and also the quality of service (QoS). Through extensive computer simulations the effectiveness of the proposed operation scheme is evaluated.

Zhi-Hui Zhan[3], Cloud computing that provides a new dimension of computing resources, in the form of infrastructure, platform, and software as a service via internet. For the cloud resource sharing Evolutionary algorithms is used. An evolutionary algorithm (EA) is a subset of evolutionary computation, a generic population-based meta-heuristic optimization algorithm. In this paper the author proposes to use the cloud computing to enhance the power of EAs. For the many real-time problems the EAs offer a gradient-free global optimization tool. The distributed EAs have recently received much attention as they utilize the set of computers to enhance optimization capability.

Gwan-Hwan Hwang and Shang-Yu Yeh[4], : IaaS that provides a virtualized computing resources in internet. In this paper the authors focus on Proof of Violation (POV) for availability of IaaS systems in the cloud. The task of POV scheme is to provide a correct proof of violation of properties or the innocence of guiltlessness of the service provider for obtaining mutual non-repudiation between users and the service provider in the cloud. POV ensures the first scheme for availability of auditing the cryptographic proofs. Realistic form of proposed system is done by the experimental results. For the service level agreements service providers can use proposed scheme to provide mutual non-repudiation guarantee.

Mohammed Mreem, Kumudu Munasinghe and Dharmendra Sharma[5], Government agencies are using cloud computing as a platform for delivering their services. However for various reasons cloud computing is still not widely adopted in some of the countries. Therefore, this paper introduces a cloud decision value model for public organization in a particular region. This model will attempt to factor in public organization business attribute, financial attribute and technical attribute to provide a balanced view. This model will support decision-makers in determining whether to invest in cloud computing or to continue with in-house capabilities. This model covers two main aspects one is organization business and

technical architecture requirements. Upcoming work will be aligned with best governance industries. After that, a cloud service model will be created based on this model by using service oriented architecture (SOA) methods.

Chen-Shu Wang and Shiang-Lin [6], For the new business models cloud has created a good opportunity. To create, share and secure their files cloud storage service plays a vital role by Internet users. This paper aims to realize customers willingness to pay for cloud storage services from a recognized service quality. This paper is analyzed by partial least squares (PLS) method. According to this research the results indicate that perceived service quality and conformity affects the increase of users willingness to pay indirectly. For the cloud storage service development and marketing this study has been established in the future environment. This would also affect customers those who willingness to pay.

Mohammed Amoon[7], Cloud computing technology plays a vital role in the IT industries. Cloud computing virtualization and its Internet-based concepts are distributed to various types of failures to occur and thus the need for reliability and availability has become a crucial issue. To ensure cloud reliability and availability, a fault tolerance strategy should be developed and implemented. Most of the early fault tolerant strategies focused on using only one method to tolerate faults. This paper presents an adaptive framework to cope with the problem of fault tolerance in cloud computing environments. The algorithm determines the most appropriate fault tolerance method for each selected virtual machine to evaluate the framework performance by simulation experiments. The result of the experiments shows the framework to improve the performance of the cloud in terms of through-put, cost and availability. The architecture of the framework assumes the cloud consists of three main layers namely application layer, virtual layer and physical layer. The first layer of application layer is used to interact with the cloud. Second layer of cloud

is used to contain virtual machine of the cloud and each virtual machine is formed using one or more physical resources. The third layer of the cloud is the physical layer and it contains hardware and software resources of the cloud. Here the resources are the real operators in the cloud.

Xiao-Fang Liu [8] : In Cloud Computing researches Virtual machine placement (VMP) and energy efficiency are the most important consequences. In this paper to minimize the number of active physical servers, evolutionary computing is applied to VMP to save energy. Ant Colony System (ACS) based approach is developed to achieve the VMP goal. Ant Colony System is the first algorithm was aiming to search for an optimal path in a graph, based on the behavior of ants seeking a path between their colony and a source of food. It efficiently ensures the number of active servers used for the assignment of virtual machines (VM) from a global optimization perspective through a novel strategy for pheromone deposition which guides the artificial ants towards promising solutions that group candidate VMs together. For the homogeneous and heterogeneous server the OEMACS (order exchange and migration ant colony systems) is used for variety of VMP problems with varying in cloud environments. Finally the results that shows a conventional heuristic and other evolutionary based approaches is done by OEMACS. It focuses mainly with bottleneck resource characteristics and offers a notable saving of energy and more efficient use of different resources.

Hong Rong, Huimei Wang, Jian Liu, and Ming Xian [9], This paper primarily concentrates on the enormous information, protection saving information mining, knearestneighbor, different keys, numerous mists. Hypothetical investigation demonstrates that our plan not just jam the security of conveyed databases and kNN inquiry, additionally conceals get to designs in the semi-legit display. Test assessment shows its huge proficiency upgrades contrasted and existing strategies, the achievability of our conventions by performing

probes genuine datasets under various parameter settings in examination with comparable works. Since OCKNN offers a high probabilistic assurance on little protection spillage and is not sufficiently quick for substantial scale dataset, So, plan to explore more secure and effective arrangements as our future work.

ZhifengZhong_, Kun Chen, XiaojunZhai, and Shuang Zhou [10], In this cloud environment the virtual machine based cloud computing platform that can be used to virtualise both the single server and the multiple server. Its basic potential efficiency to improve virtualization technology by scheduling based algorithm concept. This paper introduces the new optimization method that can be overcome algorithm to modify the difference scheduling problem by the method of Greedy practice swarm optimization (G&PSO) method. This method easily identifies the key concepts to resolve the time seal method to function the algorithmic based cloud platform using better secure performance and its cloud computing security updates. Therefore, the G&PSO algorithm demonstrates improved virtual machine efficiency and resources that utilizes and compared with their better key generation and scheduling algorithm which is utilized by the users. It will easily update the time seal and they can generate the secret key encryption methodology in this greedy optimization process with the use of virtual machine algorithmic concept in cloud computing environment.

Conclusion

Cloud service is a service which made available to users on-demand through internet where shared resources and data are provided. The practice of using a network of remote servers has developed. The above papers explained the different types of algorithms and these concepts are mainly found to make their cloud more secure and confidential. By the execution of corresponding security techniques many cloud providers are safeguarded data's, images etc. As these author's created new techniques to protect the data's and also created a good security features that engaged

to maintain the details of many important information's that have been stored. By this a client gets an alert of conserving their data's that they created. The above mentioned techniques and methods are very efficient and user friendly to clients.

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