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Cloud SAAS: Integration of IAAS & SAAS for Effective Cloud Management System with Resource Sharing Among Cloud.

Sachin Bashyan*, Saurav Raj, and Mohana Prasad K.

Department of Computer Science and Engineering, Sathyabama University, Chennai, Tamil Nadu, India.

ABSTRACT

Previous model, The Social Networking Sites Provides merely the Digitalized Friendship and Cloud Computing is Only an Evolving Process. And Managing Resources and valuing them is a Challenging Job. There is no Win - Win State between resource Providers and Users.Our model Social Networking process can integrate with cloud computing and form "social cloud computing". We can share the resource by using three techniques Resource sharing can be Volunteer, Reputation, Posted Price or even Auction Based Activity. We can integrate IAAS and SAAS together and develop an effective system. In the MODIFICATION PROCESS, Sharing Cloud will have unlike Service like SAAS Cloud, IAAS Cloud so we have implemented multiple Cloud Server with Multiple Service like SAAS as service.

Keywords: social networking, social cloud computing, volunteer, reputation, posted price, IAAS, SAAS

Corresponding author

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INTRODUCTION

Cloud computing has developed as a widespread computing paradigm, in which cloud suppliers offers ascendable resources over the Internet to users. At present, many clouds offer various services e.g. storage and computing. For e.g., Amazon cloud provider provides Drop box for simple storage service to the users. Cloud users are charged by the real usage of resources, storage, and bandwidth. The demand for these resources in few applications has been growing very fast For instance, Drop box, at present has Five million users, three times as compared to last year. A single cloud may beincapable to offer adequate resources for an application. And secondly researchers may need to form a virtual lab environment linking several clouds for supercomputing skills or for completely using idle resource. Most of the desktop systems are not utilized and are sitting idle in most organizations. So, developments in cloud Computing are certainly leading to an encouraging future for collective cloud computing, where universally-Scattered dispersed cloud resources inother groups or objects are collectively joined and used in a cooperative method to provide services. A Collaborative cloud computing platform connects physical resources to allow resource allocation between clouds, and it offers a virtual vision of an incredible quantity of resources to users. This virtual institute is apparent to cloud users .when a cloud does not have adequate resources required by its users, it discovers and use the resources in new clouds.There is no combination between IAAS and SAAS here we can combined both the process. We can develop an effective cloud management system and share the resource. Three levels of resource sharing is achieved in cloud the three level are as follow Volunteer, Reputation, Price or even Auction Based Activity. Users request are full filled. We can store the data in cloud server and maintain safety. In this project we can deploy a VLC but we can share any software. If any of my friend want software immediately but that software cost is too high we can share it with the help of integration IAAS and SAAS.

MODULES

1. Network Construction
2. Cloud Server
3. Resource Allocation using Reputation Method
4. Resource Allocation using Fixed Price Method
5. Resource Allocation using Volunteer Method:
6. Resource Allocation using Auction Method
7. File upload/ download

Network Construction

First the user has to construct the network and establish a connection between each node. The user must give the total number of nodes as input and also the name for each node must be given. After giving the name or IP address of each node the user must make a one-way communication or two way communications between each node. Thus network construction should be made.

Cloud Server

The Server Module, it is the controller module for control the total network. Also the cloud servers will respond to the queries that are sent by the clients in the network. These serves only maintains the all details such as peer name, IP Address, and Port Number for all the peers in the network. Resource Allocation is also done the cloud servers. The resource Allocation by the following 4 methods as Explained below.

Resource Allocation using Reputation Method

In this method the resource is allocated using by Reputation method. If the Requested cloud server doesn't have the enough cloud space to finish the job means, the Cloud server will request the cloud server which has previously got the response From the Cloud server (Cloud server which now requesting the resource).

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Resource Allocation using Fixed Price Method

Here if the requested cloud server doesn't have the enough cloud space to finish the job Means, the cloud server which has the enough space will provide the space for fixed price. ForExample, if the resource of 10 GB is requested to the Cloud server which has 6GB. In this case the cloud server will get the additional space from another cloud server for some fixed Price.

Resource Allocation using Volunteer Method:

Here if the requested cloud server doesn't have the enough cloud space to finish the job Means, the cloud server which has the enough space will provide the space voluntarily. So the Job will be finished easily.

Resource Allocation using Auction Method

Here if the requested cloud server doesn't have the enough cloud space to finish the job Means, the cloud server will send the request to all Cloud servers, so the each server will provide the cloud space for the some cost. In this case the Cloud the server can obtain the Cloud space at low cost.

File upload/ download

If any file is available in any other nodes the nodes searching for that file can download that file and also it can upload any file to the desired location of the user.

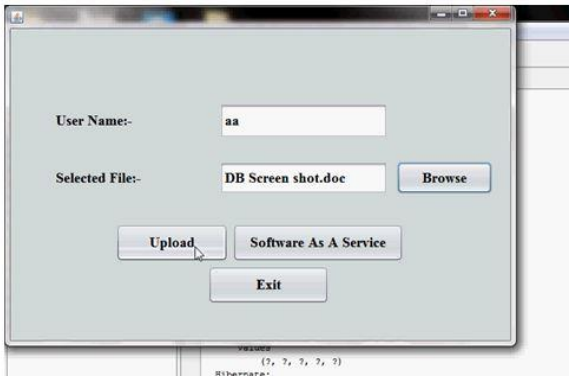

Fig: 1

PROPOSED WORK

Social Networking process can integrate with cloud computing and formed "social cloud computing". It would be effective system for users, and the resource sharing can be Volunteer, Reputation, Posted Price or even Auction Based Activity. In addition to this every cloud server and cloud service.

IMPLEMENTATION:

We can integrate IAAS and SAAS together for effective management system here we are using three methods are volunteer, reputation and posted price. In volunteer method if cloud server not having sufficient space to finish the job means, the cloud server which has the enough space will provide the space voluntarily so the job will be finished easily. In reputation method if a cloud. Server does not have sufficient space it will request other cloud which got response from the current cloud when they requested the current cloud. And at last we are using a posted price in which a cloud server is not having more space it will request all other clouds to provide some space and the other clouds will Respond in exchange of some price or money.

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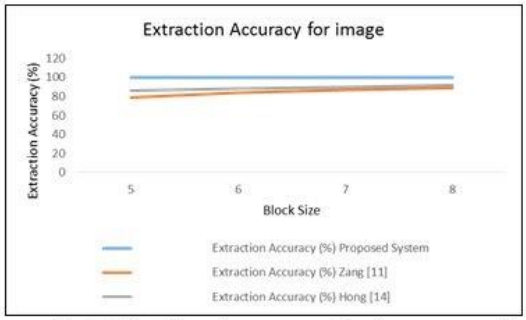

Fig Chart show the accuracy of an image compared with other system

First, the "comparison of the averaged extraction accuracy, we also show the results of these three methods for some images" illustrated in the table and corresponding chart is given in the Fig.

Architecture diagram:

In the architecture we are using the techniques cost, reputation, volunteer, reputation, and tender. If there is no sufficient space to finish the job or storing the data we can use these methods in volunteer method any cloud can help the server to store the data, in reputation method if cloud are not suitable to finish the job it will request other cloud which got

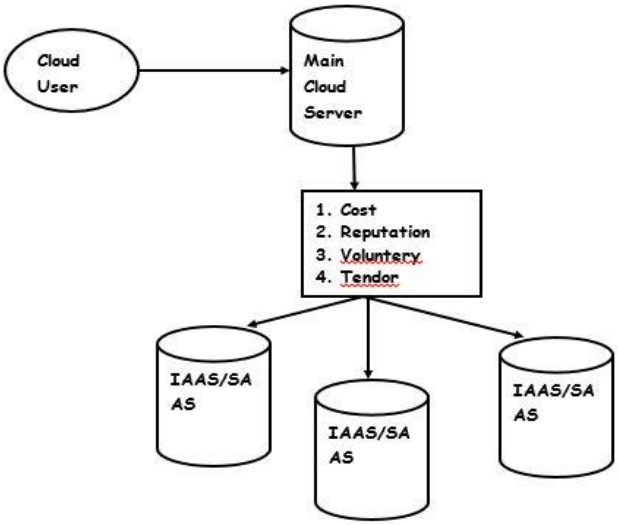

Fig: 3

The job it will request other cloud which got response from the current cloud when they requested the current cloud and in cost based method we can buy the space in cloud with the help of money this is the existing part of our project we can modify it to integrate IAAS and SAAS . In software as a service we can provide the software to fulfill the job without installing in machine

CONCLUSION

In the paper we are using SAAS to integrate with IAAS to perform sharing of a software like infrastructure is shared among clouds. If we want to run a movie in VLC player but VLC is not there in our system with the help of SAAS we can provide the service to run the movie in VLC player without installing the software. In existing system we can share the file only with the help of IAAS by using three techniques volunteer , reputation and costbased but in our project we can also share software also with the help of SAAS and IAAS

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