Active Cloud Commission Development Based On A Dual Level Scheme

M.Ramkumar[1], R. Sivakumar[2], B. Somasundaram[3], C. Anand[4]
[1, 2, 3, 4] Dept of Information Technology
[1, 2, 3, 4] Jeppiaar SRR Engineering College, Chennai.

Abstract- *To dynamically increase programming task performance and to attenuate Non-reasonable task allocation in clouds, this paper proposes a technique supported a two-stage strategy. At the primary stage, employment classifier focuses a Thomas Bayes classifier's vogue principle is used to classify tasks supported historical programming info. An explicit kind of virtual machines (VMs) of assorted varieties square measure consequently created. This might save time of constructing VMs throughout task programming. At the second stage, tasks area unit matched with concrete VMs dynamically. Dynamic task programming algorithms square measure consequently planned. Experimental results show that they'll effectively improve the cloud's programming performance and bring home the bacon the load deed of cloud resources compared with existing ways that.*

Keywords- Clouds, Service provider, Task classifier, Task scheduling, Virtual machines(VMs).

I. INTRODUCTION

Cloudcomputing, has grown exponentially in the business and research community for a number of years. Clouds provide services to users who do not own sufficient computing resources. They achieve the economy of scale through multiplexing. It has become popular due to recent advances in virtualization technologies. clouds provide a limited pool of virtualized on-demand resources, most desirably scheduling them has become a necessary and satisfying research topic. In clouds, various applications are submitted to data centers to obtain some services on a pay-per-use basis. The key concern is how to allocate user tasks to expand the profit of cloud service providers while ensuring quality-of-service for all the tasks.

In spite of, scheduling the heterogeneous cloud environment is most-demanding due to finite cloud resources with various quantities and functionalities. In a dynamic environment, how to successfully schedule tasks and make high utilization of cloud resources is an important problem. Task scheduling is to implement the reasonable deployment of cloud resources to meet user requirements while maximizing the economic benefits of cloud service providers.

II. EXISTING SYSTEM

In existing work, Task scheduling is one of the challenging problems in cloud computing, especially when deadline and cost are considered. As an important actuator, virtual machines (VMs) play a vital role for cloud task scheduling. To meet task deadlines, one needs to save the time of creating VMs, task waiting time, and executing time. To minimize the task execution cost, one needs to schedule tasks onto their most suitable VMs for execution.It fails to analyze a resource efficiently and there it fails to load a data and it has an imbalance problematic function. If a user who is going to perform a task which takes large cloud resources and a large amount of time to complete process, because of large cloud resources a small resource allocation should wait in span/queue for a long time In this existing technique it just provides a comparison between the running time and resource scheduling time. This technique also used a first-in-first-out (FIFO) algorithm to balance workload impact between task and scheduling. But it fails to utilize a user resource efficiently and it took a large amount of waiting time for small task resource

III. PROPOSED SYSTEM

The System proposes a new stage strategy to create VMs (Virtual machines) into scheduling task. Cloud consists of the number of hosts to represent virtual machines. Once a task is scheduled from the user it then goes to the task queue. Task classifier matches task and pushes to the ready queue. Once if the task classifier matches the user task that given task by another user is already in use, matcher receives a task and keeps in task scheduling. The main advantage of this proposed system is when a number of users and tasks continue to increase the proposed method increases makespan and average waiting time more slowly than Min–Min and Max-Min do.

A. Setbacks with the existing system

In cloud the network bandwidth and memory space consumption are much more enough which are not considered by using VM types.And also, parameters are critical ones to all VMs. And they don't have a perfect match with all the

tasks that are scheduled in the network bandwidth and large instances.

B. Architecture Diagram

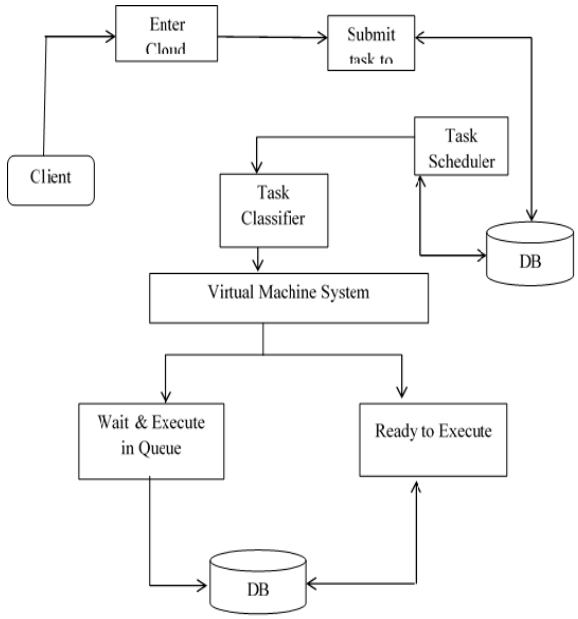


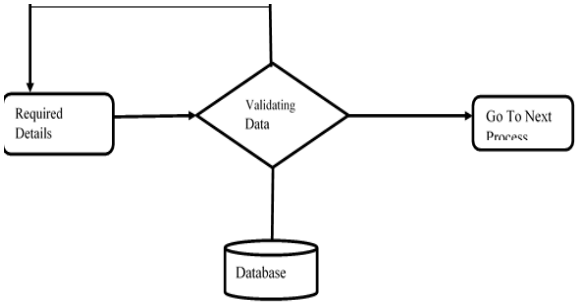
Fig.[1] Architecture diagram for Active cloud commission based on dual level scheme.

IV. MODULES

1. *Cloud Member Access*
2. *Client Access Details*
3. *Activate user and Client Files*
4. *Claim user details and task classifier*
5. *Select cloud task from cloud*
6. *View scheduled task and queue details*
7. *Create a virtual machine to maintain task*

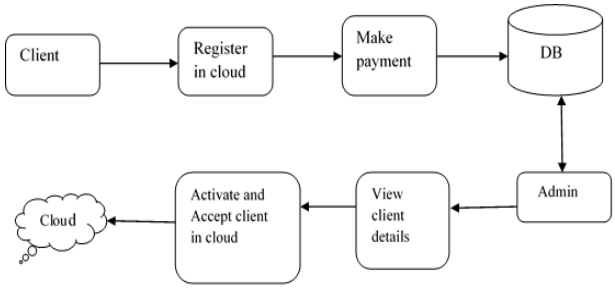
1. Cloud Member Access

The process of identifying an individual usually based on a username and password. In security systems, Authentication merely ensures that the individual is who he or she claims to be, but says nothing about the access rights of the individual. In authentication module is used to security purpose. Here this module only for user, after registration user enter the username and password. This input is check into the database, whether input is correct or not. If input is correct then allow to next process otherwise consider as a non-authenticated user.



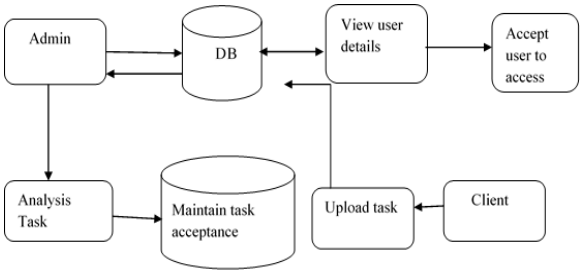
2. Client Access Details

In this module, client should register details in cloud once if client completes access in cloud, cloud authorizer will views client details and accept and activates their account.



3. *Activate user and Client Files*

In this module, administrator and cloud authorizer views user cloud details once if user completes all registration properties cloud administrator accepts that user details to access cloud and maintains the client task and also analysis type of task that client uploaded in cloud.



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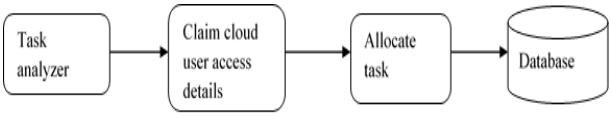
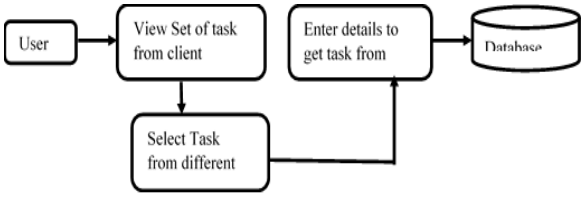
4. Claim user details and task classifier

In this task classifier analysis and view cloud access details and allocate the type of task in database.



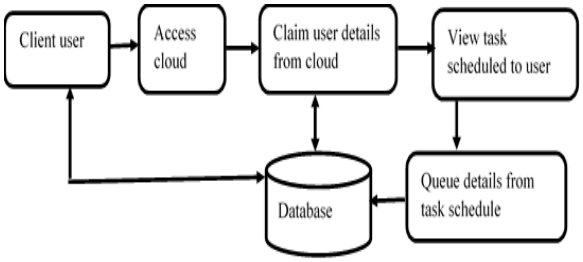
5. Select cloud task from cloud

In this module once user account has been activated user view all those that is uploaded from different cloud user can select the task that user wants to complete from database.



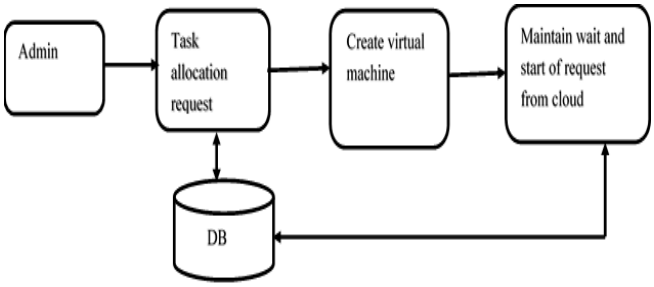
6. View scheduled task and queue details

In this module, client user who uploaded task into cloud view user who claimed task from cloud and can maintain queue scheduling that user requested to get task from cloud



7. create a virtual machine to maintain tasks

In this module administrator and authorized cloud user creates a virtual machine to maintain user request for task scheduling from database.



V. ADVANTAGES

It has smallest waiting average waiting time for all the tasks. It has balanced workload among all VMs with utilization of task classifier.It reduces a failure of task scheduling and increase the performance rate of task scheduling

VI. LIMITATION OF EXISTING SYSTEM

In cloud the network bandwidth and memory space consumption are much more enough which are not considered by using VM types.And also parameters are critical ones to all VMs. And they don't have a perfect match with all the tasks that are scheduled in the network bandwidth and large instances

VII. APPLICATIONS

Corporate: It very useful for all corporate to outsource their reports.

Healthcare: In healthcare the patients Electronic Health Records (EHR) are securely encrypted and outsourced to several hospitals.

Statistical Applications: This approach used for all statistical applications to outsource the statistical data in secure manner

VIII. CONCLUSION

A two-stage task scheduling framework and its related algorithms to achieve desired task scheduling and execution and improve service quality of the clouds. Based on historical task scheduling information, a proper number of VMs with different resource attributes are pre-created. It can save much time to create VMs and decrease the failure rate of task scheduling. According to task complexity, execution in comparison with well-known Min–Min and Max–Min methods. Further research work includes deploying the method to an actual cloud computing system to test its performance and improving the proposed scheduling method by considering how to minimize the energy consumption while guaranteeing the service quality.

IX. FUTURE ENHANCEMENTS

In future work, it includes a method of deployment to particular storage cloud computing to test its performance and it also improves proposed scheduling method to minimize the energy consumption while the particular task service scheduling while ensuring service quality.

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