A Survey on Profit Maximization Scheme With Guaranteed Quality Of Service

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Abstract: A fruitful and successful way to deal with give enlisting resources and organizations to customers on interest, appropriated registering has ended up being progressively popular. From cloud organization suppliers' perspective, advantage is a champion amongst the most basic thoughts, and it is generally controlled by the outline of a cloud organization stage under given business segment demand. In any case, a lone whole deal renting arrangement is regularly gotten to orchestrate a cloud stage, which can't guarantee the organization quality yet prompts honest to goodness resource waste. In this paper, a twofold resource renting arrangement is sketched out firstly in which transient renting and whole deal renting are joined going for the present issues. This twofold renting arrangement can sufficiently guarantee the way of organization of all sales and reduction the advantage misuse amazingly. Also, an organization structure is considered as a M/M/m+D lining model and the execution markers that impact the advantage of our twofold renting arrangement are inspected, e.g., the ordinary charge, the extent of sales that need break servers, and so forth. Thirdly, an advantage expansion issue is characterized for the twofold renting arrangement and the updated configuration of a cloud stage is gotten by handling the advantage enhancement issue. Finally, a movement of calculations is coordinated to take a gander at the event of our proposed arrangement with that of the single renting arrangement. The results show that our arrangement can’t simply guarantee the organization way of all requesting, moreover get more advantage than the last said.

Keywords: Cloud Computing; Multi-Server System; Pricing Model; Profit; Queueing Model; Server Configuration Service Charge; Service-Level Agreement; Waiting Time;

I. INTRODUCTION

Now a days cloud computing is rapidly becoming an effective and efficient way of computing resources and computing services. Cloud provides dynamic resource pools, virtualization, and high availability. In the system every client needs to register initially to get access into the mechanism. Once logged in they can have the functionalities like File distribution request to server and Access re-quest status. BSP (Business Service Provider) can access customer request which may be in distributed and provide approval based on the query, storage capacity and provide job scheduling for customer request on infrastructure storage area. Business Service Provider can assign the Infrastructure to the client which is based on the available renting space and Infrastructure Service Provider can review the request sent from the customer through BSP. Once the request reviewing process completed then it can be approved to provide renting space on Infrastructure cloud. The cloud systems primarily focus on finding an effective resolution for the resource management. It is web based mostly computing wherever virtual shared servers provide infrastructure, platform, software, devices and other resources and hosting to customers on a pay-as-you-use basis. In business ideas the profit is that the main issue to be exist within the field of the specific environment. Obviously, the requirement of profit maximization in cloud computing environment is needed. Today’s the sixty billion servers are working in this world. Therefore the server required a large amount of power. Normally between the user and server has some agreement i.e., service level agreement. In this service level agreement, defined the Quality of service need to provide for the user and the maximum needed execution time. If the service provider violates this service-level agreement no charge is provided for the specific service. So there will be the loss of the profit. Here valuation of the optimal speed and size of the input the SLA is provided and here a pricing model is developed consistent with optimal size and speed and service charge is calculated. Therefore the service supplier or provider can maximize the profit.

II. RELATED WORK

We Referred We have proposed a pricing model for cloud computing which takes many factors into considerations, such as the requirement r of a service, the workload of an application environment, the configuration (m and s) of a multi-server system, the service level agreement c, the satisfaction (r and s) of a consumer, the quality (W and T) of a service, the penalty d of a low-quality service, the cost of renting, the cost of energy consumption, and a service provider’s...
margin and profit a. By using an M/M/ m queuing model, we formulated and solved the problem of optimal multi-server configuration for profit maximization in a cloud computing environment. Our discussion can be easily extended to other service charge functions. Our methodology can be applied to other pricing models. At three-tier cloud structure, which consists of infrastructure vendors, service providers and consumers, the latter two parties are particular interest to us. Clearly, scheduling strategies in this scenario should satisfy the objectives of both parties. Our contributions include the development of a pricing model using processor-sharing for clouds, the application of this pricing model to composite services with dependency consideration, and the development of two sets of profit-driven scheduling algorithms.

III. PROPOSED SYSTEM

In this paper, a double resource renting plan is designed firstly in which short term renting and long term renting are joined going for the current issues. This double renting plan can viabley ensure the nature of administration of all solicitations what's more, lessen the resource squander enormously. Also, an service framework is considered as a M/M/m+D lining model and the execution pointers that influence the profit of our double renting plan are dissected, e.g., the normal charge, the proportion of solicitations that need makeshift servers, et cetera. Thirdly, a profit amplification issue is planned for the double renting plan and the streamlined arrangement of a cloud stage is gotten by taking care of the profit boost issue.

IV. CONCLUSION

A optimal configuration problem of profit maximization is formulated in which many factors are taken into considerations, such as the market demand, the rental cost of servers, the cost of energy consumption, the workload of requests, the server-level agreement etc. A pricing model is developed for cloud computing which takes many factors, such as Double-Quality-Guaranteed renting scheme for service providers. A short-term renting with longterm renting combines in this scheme, which can reduce the resource wastage. An M/M/m+D queuing model is build for multiserver system with varying system size. Cloud provides the security to database by using unique key. A series of comparisons of DQG and SQU the Double-Quality-Guaranteed renting scheme achieve more profit than single quality-unguaranteed renting scheme.

V. REFERENCES


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