Abstract
As a viable and productive approach to give computing assets and services to clients on interest, cloud computing has turned out to be better known. From cloud service provider’s point of view, profit is a standout amongst the most essential contemplations, and it is predominantly dictated by the design of a cloud administration stage under given business sector request. Be that as it may, a single long haul renting plan is normally received to design a cloud stage, which can’t promise the administration quality however prompts genuine asset waste. In this paper, a double asset renting plan is outlined firstly in which fleeting renting and long haul renting are joined going for the current issues. This double renting plan can viably ensure the nature of administration of all solicitations what’s more, lessen the asset squander enormously. Also, an administration 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. At long last, a progression of computations directed to analyse the profit of our proposed plan with that of the single renting plan. The outcomes demonstrate that our plan cannot just ensure the administration nature of all solicitations, additionally get more profit than the last.

References


Index Terms

Computer Science Distributed Systems
Keywords

Cloud Computing  Guaranteed Service Quality  Profit Maximization  Queuing Model
Service-level Agreement
Waiting Time.