

PERFORMANCE TESTING OF SERVICE BROKER POLICIES WITH LOAD BALANCING ALGORITHMS FOR DATA CENTER SELECTION USING CLOUD ANALYST IN CLOUD COMPUTING.

Dr.N.Priya¹, S.Shanmuga Priya²

Associate Professor¹, Research Scholar²,

Research Department of Computer Science,

Shrimathi Devkunvar Nanalal Bhatt Vaishnav College for Women,

Chennai, India.

Email: drnpriya2015@gmail.com¹, priyadgvc17@gmail.com²

ABSTRACT

As Cloud Computing is an emerging technology in IT industry and offers enormous services with high performance and low cost, many organizations are moving their businesses to the cloud and processing their applications with the help of cloud services such as Infrastructure, Software, Platform etc. But, still it has some issues while balancing the workload among Datacenter and Virtual Servers for executing the company's task due to the immense increase of business applications. Service Brokering and Load Balancing are the techniques used to choose the Datacenter and Virtual Servers respectively for smooth processing of applications. This paper presents the evaluation and analysis of the existing Service Broker Polices such as Closest Datacenter, Optimise Response time and Reconfigure Dynamically LoadBroker Policy along with the existing three Load Balancing techniques such as Round Robin, Equally Spread Current Execution and Throttled Load balancing based on the key parameters such as response time and Datacenter processing time using CloudAnalyst simulation tool for efficient allocation of user's workload and to maintain the Quality of Services (QOS).

KEYWORDS: *Cloud Computing, Service Brokering, Load Balancing, Cloud Analyst, Datacenter, Response Time*